**OSAGE BEACH / LAKE OZARK**
**JOINT SEWER BOARD MEETING**
**AGENDA**
**September 20th, 2022 @ 4:00 p.m.**
**LAKE OZARK CITY HALL**

1. **CALL TO ORDER**

2. **ROLL CALL**

   Mayor, Lake Ozark, Dennis Newberry
   Mayor, Osage Beach, Michael Harmison
   City Administrator, Osage Beach, Jeana Woods
   City Administrator, Lake Ozark, David Mitchem
   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

| | **Page Numbers** |
|---|---|
| **3. MINUTES** | |
| Regular Meeting: July 19th, 2022 | 2-1 |
| ***There was NO August 20th 2022 Meeting*** | |
| **4. REPORTS - July and August** | |
| **July -** | |
| Bill List | 45-54 |
| Revenue Budget Analysis | 55 |
| Expenditure Budget Analysis | 56 |
| Income & Expense Summary | 57 |
| **August –** | |
| Bill List | 5-20 |
| Revenue Budget Analysis | 21 |
| Expenditure Budget Analysis | 22 |
| Income & Expense Summary | 23 |
| July 2022 Alliance Report of Operations | 59-84 |

Approval of Flow Chart; July and August 2022

5. **OLD BUSINESS**

   A. Board Representative Update

6. **NEW BUSINESS**

   A. Review and discussion regarding sealcoat / slurry seal for the parking lot

7. **ADDITIONAL DISCUSSION ITEMS**
8. **ADJOURNMENT**

**THE NEXT MEETING WILL BE October 18th, 2022 4:00 PM @ LAKE OZARK CITY HALL**

# LAKE OZARK-OSAGE BEACH
# JOINT SEWER BOARD
## Meeting Minutes – July 19th , 2022

**CALL TO ORDER:**

Mayor Michael Harmison called the meeting to order at 4:00 pm on Tuesday July 19th, 2022 at Lake Ozark City Hall.

**ROLL CALL:**

Mayor, Osage Beach, Michael Harmison- Present
Mayor, Lake Ozark, Dennis Newberry – Absent
City Administrator Osage Beach, Jeana Woods - Present
City Administrator Lake Ozark, David Mitchem – Absent
Alderman Osage Beach, Kevin Rucker- Present
Alderman Lake Ozark, Pat Thompson- Present
Public Works Director Lake Ozark, Matt Michalik – Absent
Public Works Operations Manager, Kevin Crooks – Present
Resident Member, Mr. Gary Hamner - Present

**MINUTES:**

Alderman Lake Ozark, Pat Thompson motioned to approve the meeting minutes from June 21st 2022. Her motion was seconded by City Administrator Osage Beach, Jeana Woods Mitchem and passed unanimously.

**REPORTS:**

- Bill List – Motion to approve by Alderman Osage Beach, Kevin Rucker. His motion was seconded by City Administrator Osage Beach, Jeana Woods. Passed unanimously.
- Revenue Budget Analysis.
- Expenditure Budget Analysis.
- Income & Expense Summary, Check Registers and Bank Statements were reviewed.

**ALLIANCE REPORT OF OPERATIONS:**

Alliance Report of Operations: The average daily incoming flow for May was 1.556 mgd. We had 3.3 inches of precipitation in June measured at the WWTP.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD and TSS of 1.9 mg/l and 1.7 mg/l respectively for June which represents a 99.1 + % or better removal.

The MLSS average for both aeration basins was 6,383 mg/l in June. There were 84 loads of biosolids or 302,400 gallons land applied in June. We received 42 loads of septage or 93,500 gallons for June.

**APPROVAL OF FLOW CHART**

Motion was made by Alderman Lake Ozark, Pat Thompson to approve the Flow Charts for June 2022. Her motion was seconded by City Administrator Osage Beach, Jeana Woods. Unanimous approval, motion passed.

**OLD BUSINESS:**

A. Board Representative Update. No update

B. **NEW BUSINESS:**

A. Invited four vendors to bed on the parking lot sealcoat/slurry seal at the treatment plant. Three vendors provided bids. Motion made by Alderman Lake Ozark, Pat Thompson to approve the Bid in the amount of $2,275.00 provided by Charlton Paving & SlurrySeal. Her motion was seconded by Public Works Operations Manager, Kevin Crooks. Unanimously passed.

**ADDITIONAL DISCUSSION ITEMS:**

Zeller Technologies was awarded the contract for the Aeration Gear Box Replacement project.

**ADJOURNMENT:**

With no further business to discuss, the meeting adjourned at 4:38 pm.

Approved on:

Mayor, Michael Harmison

Clerk, Robin Craig

JOINT SEWER BOARD
BILL LIST
SEPTEMBER 20, 2022

| | | |
|---|---|---|
| OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING: | $ | 50,043.15 |
| OPERATING FUND BILLS TO BE PAID: | $ | 46,087.24 |
| EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING: | $ | 2,567.07 |
| EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID: | $ | 671.00 |
| TOTAL | $ | 99,368.46 |

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

| Account | Check | Paid To: | Description: | | Amount: |
|---|---|---|---|---|---|
| 4240 | 622 | USA Blue Book | Analog Stirrer | $ | 202.69 |
| 4020 | 624 | Ash Ahart Concrete Const. | Concrete Steps | $ | 6,100.00 |
| 4000 | 1001 | Equipment Replacement Fund | Payment into ER Fund | $ | 4,584.00 |
| 4020 | 1002 | Catalyst Electric | Bar Screen Controls Repair | $ | 211.25 |
| 4020 | 1003 | Charlton Paving & Slurry seal | Parking Lot Slurry seal | $ | 2,275.00 |
| 4020 | 1004 | JCI Industries, Inc. | Repair RAS Pump | $ | 2,300.00 |
| 4020 | 1005 | Majestic Franchising Inc | August | $ | 197.15 |
| 4020 | 1006 | M/C QuickBooks | Accounting Software | $ | 30.00 |
| 4020 | 1006 | M/C Fastenco | Bolts for loading station | $ | 31.20 |
| 4020 | 1007 | Menards | Cleaning & RAS Supplies | $ | 63.50 |
| 4020 | 1007 | Menards | Bolts & Nuts for RAS Pumps | $ | 20.31 |
| 4020 | 1007 | Menards | Sanding Wheel | $ | 4.49 |
| 4020 | 1007 | Menards | Safety Mat | $ | 139.88 |
| 4020 | 1007 | Menards | Parking Lot Curbs | $ | 299.94 |
| 4020 | 1007 | Menards | Safety Mat | $ | 139.88 |
| 4020 | 1007 | Menards | Return - Safety Mat | $ | (69.94) |
| 4020 | 1008 | Milwaukee Rubber Products | Hose End for Loading Station | $ | 69.23 |
| 4020 | 1009 | O'Reilly | Bearings for bar screens | $ | 43.60 |
| 4150 | 1010 | Crump Truck & Trailer | Sludge Trk PTO Repair | $ | 561.00 |
| 4170 | 1011 | Alliance Water Resources, Inc. | August | $ | 27,590.00 |
| 4175 | 1012 | Ameren MO | 11673321 | $ | 10,514.79 |
| 4175 | 1012 | Ameren MO | 98041275 | $ | 132.86 |
| 4176 | 1013 | AT&T | August | $ | 105.28 |
| 4176 | 1014 | Republic | August | $ | 65.31 |
| 4020 | 1015 | Xylem Water Solutions | UV Supplies | $ | 734.42 |
| | | | TOTAL | $ | 50,043.15 |

OPERATING FUND BILLS TO BE PAID:

| Account | Check | Paid To: | Description: | | Amount: |
|---|---|---|---|---|---|
| 4000 | 1016 | Equipment Replacement Fund | Payment into ER Fund | $ | 4,584.00 |
| 4020 | 1017 | Core & Main | Chlorine for cleaning & backup | $ | 928.58 |
| 4020 | 1018 | Grainger | Couplers for RAS pumps | $ | 357.80 |
| 4020 | 1019 | Lake Recharge | Fire Extinguisher service | $ | 88.00 |
| 4020 | 1020 | Majestic Franchising Inc. | September | $ | 197.15 |
| 4020 | 1021 | M/C QuickBooks | Accounting Software | $ | 30.00 |
| 4020 | 1022 | Menards | Fitting and Washers | $ | 21.14 |
| 4020 | 1022 | Menards | PVC Cement | $ | 3.99 |
| 4020 | 1022 | Menards | Brush spray and paint | $ | 27.39 |
| 4020 | 1023 | Mission Communications | Auto Dialer Annual Maintenance | $ | 419.40 |
| 4020 | 1024 | Roemer's Heavy Equipment | Welding Services on Sludge Station | $ | 395.00 |
| 4170 | 1025 | Alliance Water Resources, Inc. | September | $ | 27,590.00 |
| 4175 | 1026 | Ameren MO | 11673321 | $ | 10,627.46 |
| 4175 | 1026 | Ameren MO | 98041275 | $ | 172.58 |
| 4176 | 1027 | AT&T | September | $ | 104.86 |
| 4176 | 1028 | Ferrellgas | 207.4 Gallon of Propane | $ | 476.81 |
| 4176 | 1029 | Republic | September | $ | 63.28 |
| | | | TOTAL | $ | 46,087.24 |

EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:

| Account | Check | Paid To: | Description: | | Amount: |
|---|---|---|---|---|---|
| 4000 | 1070 | Menards | Lab Refrigerator w/ice maker | $ | 1,060.99 |
| 4000 | 1070 | Menards | Refrigerator install parts | $ | 110.73 |
| 4000 | 1069 | USA Blue Book | Valve for Loading Station | $ | 297.91 |
| 4000 | 1069 | USA Blue Book | DO Probe | $ | 1,097.44 |
| | | | TOTAL | $ | 2,567.07 |

EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:

| Account | Check | Paid To: | Description: | | Amount: |
|---|---|---|---|---|---|
| 4000 | 1071 | Dissen Electric, Inc. | Replace fluorescent bulbs to LED | $ | 4,536.49 |
| 4000 | 1071 | Dissen Electric, Inc. | Replace fixture in Headworks Bldg. | $ | 671.00 |
| | | | TOTAL | $ | 671.00 |

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

FOCUSED ENERGY. For life.

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

| | |
|---|---|
| **AMOUNT DUE** | **$10,627.46** |
| **Due Date** | **09/29/2022** |
| Amount After Due Date | $10,733.73 |
| Previous Statement | $10,514.79 |
| Total Payments | $10,514.79 |

*Payment Received. Thank You*

**Current Detail for Statement 09/08/2022**

| | |
|---|---|
| Total Electric Charges | $10,827.46 |
| **Total Amount Due** | **$10,627.46** |

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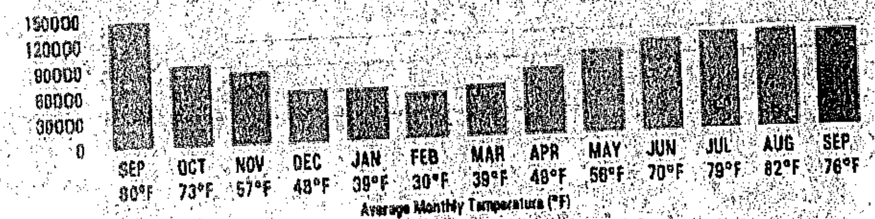
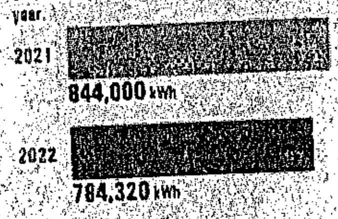
**Electric Usage History**

Electric Usage in Kilowatt Hours (kWh)




**Electric Usage Summary (kWh)**

So far this year, you're using **7.1% less** than last year.




Usage from Jan-Sep for 2021 & 2022

13073 04935 2121012 009672 019343 00014002

**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#: 5013
Signature: [signature]
Date: 9/8/22



» See next page for service details.

Keep this portion for your records.

Please return this portion with your payment.

Ameren MISSOURI

☐ Check if you have address changes on back.

| Amount Due | Due Date |
|---|---|
| $10,627.46 | September 29, 2022 |
| **Delinquent Amount After Due Date** | **Account Number** |
| $10,733.73 | 4580005832 |

Amount Enclosed $ ____________

>004935 2121012 0014 092139 10Z

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

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

40600000 0045800058302 000010627460 000010627460

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Service from 08/07/2022 - 09/06/2022 (30 days)

## Electric Service Details

**Electric Meter Read**

| METER NUMBER | SERVICE FROM - TO | NO. DAYS | USAGE TYPE | READING TYPE | CURRENT READING | PREVIOUS READING | READING DIFFERENCE | MULTIPLIER | USAGE |
|---|---|---|---|---|---|---|---|---|---|
| 11673321 | 08/07 - 09/06 | 30 | Total kWh | Actual | 75378.0000 | 74688.0000 | 690.0000 | 160.0000 | 110400.0000 |
| 11673321 | 08/07 - 09/06 | 30 | Peak kW | Actual | 1.4180 | 0.0000 | 1.4180 | 160.0000 | 226.8800 |

**Usage Summary**

| | | | |
|---|---|---|---|
| Total kWh | 110400.0000 | Summer kWh | 110400.0000 |
| Peak kW | 226.8000 | Billing Demand | 226.9000 |
| Total Billing Demand | 226.9000 | October Winter Base kW | 162.4000 |
| Winter Base Demand | 162.4000 | Base kWh Ratio | 0.7157 |
| 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 | @ | $ 0.03870000 | $0.00 |
| Summer Demand Charge | 226.90 | kW | @ | $ 5.87000000 | $1,331.90 |
| Winter Demand Charge | 226.90 | kW | @ | $ 0.00000000 | $0.00 |
| Energy Charge/Hours Used | 34,035.00 | kWh | @ | $ 0.10540000 | $3,587.29 |
| Energy Charge/Hours Used | 45,380.00 | kWh | @ | $ 0.07930000 | $3,598.63 |
| Energy Charge/Hours Used | 30,985.00 | kWh | @ | $ 0.05340000 | $1,654.60 |
| Base Energy Charge / Hours Used | 0.00 | kWh | @ | $ 0.06620000 | $0.00 |
| Customer Charge | | | | | $104.86 |
| Fuel Adjustment Charge | 110,400.00 | kWh | @ | $ 0.00041000 | $45.26 |
| Energy Efficiency Investment Charge | 110,400.00 | kWh | @ | $ 0.00326200 | $360.12 |
| Renewable Energy Adjustment | 110,400.00 | kWh | @ | $ 0.00050000 | $55.20 |
| | | | | **Total Service Amount** | $10,627.46 |
| | | | | **Total Electric Charges** | **$10,627.46** |



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

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

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- PHONE 866.268.3729
- IN PERSON FIND A PAY STATION AT AMERENMISSOURI.COM/PAYSTATION
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- MAIL STUB & CHECK

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- Customer Service: 1.877.426.3736

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

| | |
|---|---|
| **AMOUNT DUE** | **$172.58** |
| **Due Date** | **09/29/2022** |
| Amount After Due Date | $174.31 |
| Previous Statement | $132.86 |
| Total Payments | $132.86 |

*Payment Received. Thank You.*

**Current Detail for Statement 09/08/2022**

| | |
|---|---|
| Total Electric Charges | $172.58 |
| **Total Amount Due** | **$172.58** |

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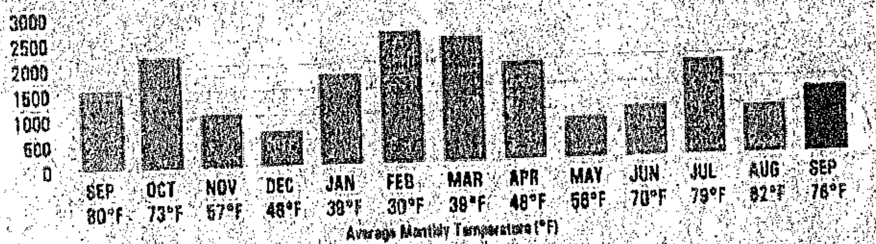
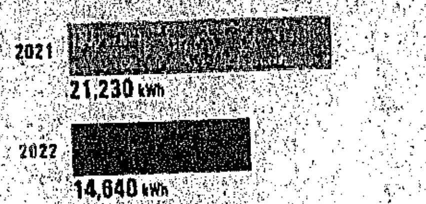
**Electric Usage History**

Electric Usage in Kilowatt Hours (kWh)




Electric Usage Summary (kWh)

So far this year, you're using **31% less** than last year.




Usage from Jan-Sep for 2021 & 2022

**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#: 4075
Signature: [signature]
Date: 9/8/22

Keep this portion for your records.

» See next page for service details.



Please return this portion with your payment.

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| Amount Due | Due Date |
|---|---|
| $172.58 | September 29, 2022 |
| **Delinquent Amount After Due Date** | **Account Number** |
| $174.31 | 5580005920 |

**Amount Enclosed $** ____________

>004936 2121012 0014 092139 10Z

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

**AMEREN MISSOURI**
PO BOX 88068
CHICAGO IL 60680-1068

70633000 00558000592000 000000172580 000000172580

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**Electric Service Details** Service from 08/07/2022 - 09/06/2022 (30 days)

Electric Meter Read

| METER NUMBER | SERVICE FROM - TO | NO. DAYS | USAGE TYPE | READING TYPE | CURRENT READING | PREVIOUS READING | READING DIFFERENCE | MULTIPLIER | USAGE |
|---|---|---|---|---|---|---|---|---|---|
| 98041275 | 08/07 - 09/06 | 30 | Total kWh | Actual | 25084.0000 | 24955.0000 | 129.0000 | 10.0000 | 1290.0000 |
| 98041275 | 08/07 - 09/06 | 30 | Peak kW | Actual | 5.2070 | 0.0000 | 5.2070 | 10.0000 | 52.0700 |

Usage Summary

| | | | |
|---|---|---|---|
| Total kWh | 1290.0000 | Summer kWh | 1290.0000 |
| Winter Base kWh | 1830.0000 | Current Base kWh | 1290.0000 |
| Summer Cur Base kWh | 1290.0000 | 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 | 1,290.00 | kWh | @ | $ 0.11350000 | $146.42 |
| Base Energy Charge | 0.00 | kWh | @ | $ 0.08480000 | $0.00 |
| Seasonal Energy Charge | 0.00 | kWh | @ | $ 0.04880000 | $0.00 |
| Customer Charge | | | | | $21.66 |
| Fuel Adjustment Charge | 1,290.00 | kWh | @ | $ 0.00041000 | $0.53 |
| Energy Efficiency Investment Charge | 1,290.00 | kWh | @ | $ 0.00343000 | $4.42 |
| Renewable Energy Adjustment | 1,290.00 | kWh | @ | $ 0.00050000 | $-0.65 |
| | | | | Total Service Amount | $172.58 |
| | | | | **Total Electric Charges** | **$172.58** |

**Payments Since Previous Statement**

| DATE RECEIVED | AMOUNT |
|---|---|
| August 22, 2022 | $132.86 |



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

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Address ____________________
City, State, Zip ____________________
Phone Number ____________________

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ASH/AHART CONCRETE CONSTRUCTION, LLC
1695 Hwy. 52, Tuscumbia, MO 65082
Phone: 573-369-3243 / 369-3323 Mobile: 573-375-1272 / 216-0429

CONCRETE CONSTRUCTION

RECEIVED JUL 19 2022

# INVOICE
(For Billing Purposes Only)

Job Name: lake Ozark water treatment plant

Date: 7-18-22

Address: 

Phone: 

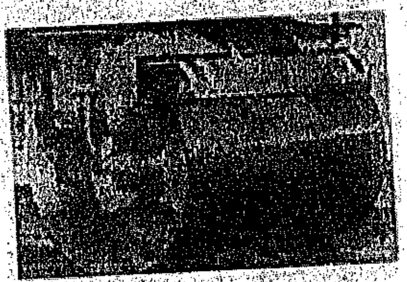
| DESCRIPTION OF JOB BID | CHANGES TO ORIGINAL BID |
|---|---|
| Set and pour steps and pads for access to back door.<br><br>STEPS GOING DOWN TO OUTFALL + PAD BY UV SYSTEM<br>GL Acct#: 4020<br>Signature: [signature]<br>Date: 7/19/22 | |

Estimated Cost: $

Changes: $

TOTAL AMOUNT DUE: $ 6,100

*Thank you for your Business*



**Charlton Paving & SlurrySeal LLC**
Raymond Charlton
11596 Martin place
Hannibal Mo 63401
573-375-1022 or 573-822-9939
charltonpaving@yahoo.com

RECEIVED AUG 08 2022

INVOICE
INV0424

DATE
Aug 2, 2022

DUE
On Receipt

BALANCE DUE
USD $2,275.00

BILL TO
**Joint Sewer Board / Gary Hutchcraft**
3 Anderson rd
Lake Ozark Mo 65049
573-365-0455 cell 573-216-8398
ghutchcraft@alliancewater.com

| DESCRIPTION | RATE | QTY | AMOUNT |
|---|---|---|---|
| **SlurrySeal**<br>Clean and prep parking area<br>Crackseal<br>SlurrySeal entire lot | $2,125.00 | 1 | $2,125.00 |
| Pin parking stoppers in place | $150.00 | 1 | $150.00 |

TOTAL $2,275.00

BALANCE DUE **USD $2,275.00**

**Payment Info**
BY CHECK
Charlton Paving

PARKING LOT SLURRYSEAL
GL Acct#: 4020
Signature: Gary Hutchcraft
Date: 8/8/22

# INVOICE

**Remit To:**

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

| INVOICE | |
|---|---|
| 8236570 | |
| Invoice Date | Page |
| 07/20/2022 | 1 of 1 |
| ORDER NUMBER | |
| 1211962 | |

Branch 06 JEFFERSON CITY

**Bill To:**
LAKE OZARK/OSAGE BEACH JOINT SEWER BC
PO BOX 1985
LAKE OZARK, MO 65049

**Ship To:**
ALLIANCE WATER RESOURCES
#3 ANDERSON ROAD
LAKE OZARK, MO 65049

RECEIVED JUL 25 2022

**Customer ID:** 400263

| PO Number | Term Description | Net Due Date |
|---|---|---|
| GARY HUTCHCRAFT-15 | Net 30 | 8/19/2022 |

| Order Date | Pick Ticket No | Primary Salesrep Name | Order Taker |
|---|---|---|---|
| 6/1/2022 15:50:30 | 3226083 | Ben Reinkemeyer JI | HHASKELL |

| Ordered | Shipped | Remaining | UOM Unit Size | Disp. | Item ID / Item Description | Pricing UOM / Unit Size | Unit Price | Extended Price |
|---|---|---|---|---|---|---|---|---|
| 1.00 | 1.00 | 0.00 | EA 1.0 | | P FAIRBANKS 06-01-22<br>FAIRBANKS PUMP | EA 1.0000 | 2,300.00 | 2,300.00 |

*Total Lines:* 1

| | |
|---|---|
| ***SUB-TOTAL:*** | 2,300.00 |
| ***TAX:*** | 0.00 |
| ***AMOUNT DUE:*** | **2,300.00** |

*Carrier:* JCI TO DELIVER *Tracking #:*

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

REPAIR RAS PUMP

GL Acct#: 4020

Signature: Gary Hutchcraft

Date: 7/25/22

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

*ORIGINAL*

2 11 311 11/19/2012

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- Customer Service: 1.877.426.3736

FOCUSED ENERGY. *For life.*

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

| | |
|---|---|
| **AMOUNT DUE** | **$10,514.79** |
| **Due Date** | **08/30/2022** |
| Amount After Due Date | $10,619.94 |
| Previous Statement | $10,717.98 |
| Total Payments | $10,717.98 |
| *Payment Received, Thank You* | |

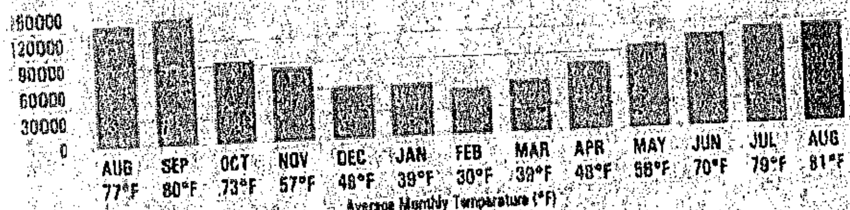
**Current Detail for Statement 08/09/2022**

| | |
|---|---|
| Total Electric Charges | $10,514.79 |
| **Total Amount Due** | **$10,514.79** |

RECEIVED AUG 0 9 2022

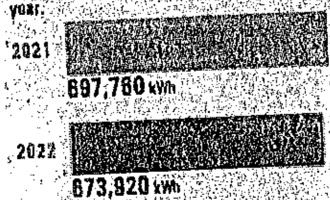
**Electric Usage History**

**Electric Usage in Kilowatt Hours (kWh)**




**Electric Usage Summary (kWh)**

So far this year, you're using **3.4% less** than last year.




Usage from Jan-Aug for 2021 & 2022

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

GL Acct#: 4175
Signature: [signature]
Date: 8/9/22

Keep this portion for your records.

» See next page for service details.



Please return this portion with your payment.

**Ameren MISSOURI**

☐ Check if you have address changes on back.

| Amount Due | Due Date |
|---|---|
| $10,514.79 | August 30, 2022 |
| **Delinquent Amount After Due Date** | **Account Number** |
| $10,619.94 | 4580005832 |

Amount Enclosed $ ______

>000548 2109801 0003 092139 10Z

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

**AMEREN MISSOURI**
PO BOX 88068
CHICAGO IL 60680-1068

60600000 0045800058302 000010514790 000010514790

Ameren MISSOURI

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

FOCUSED ENERGY. For Life.

## Electric Service Details

Service from 07/07/2022 - 08/07/2022 (31 days)

**Electric Meter Read**

| METER NUMBER | SERVICE FROM - TO | NO. DAYS | USAGE TYPE | READING TYPE | CURRENT READING | PREVIOUS READING | READING DIFFERENCE | MULTIPLIER | USAGE |
|---|---|---|---|---|---|---|---|---|---|
| 11673321 | 07/07 - 08/07 | 31 | Total kWh | Actual | 74686.0000 | 73982.0000 | 704.0000 | 160.0000 | 112640.0000 |
| 11673321 | 07/07 - 08/07 | 31 | Peak kW | Actual | 1.3390 | 0.0000 | 1.3390 | 160.0000 | 214.2400 |

**Usage Summary**

| | | | |
|---|---|---|---|
| Total kWh | 112640.0000 | Summer kWh | 112640.0000 |
| Peak kW | 214.2000 | Billing Demand | 214.2000 |
| Total Billing Demand | 214.2000 | October Winter Base kW | 162.4000 |
| Winter Base Demand | 162.4000 | Base kWh Ratio | 0.7581 |
| 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 | @ | $ 0.03870000 | $0.00 |
| Summer Demand Charge | 214.20 | kW | @ | $ 5.87000000 | $1,257.35 |
| Winter Demand Charge | 214.20 | kW | @ | $ 0.00000000 | $0.00 |
| Energy Charge/Hours Used | 32,130.00 | kWh | @ | $ 0.10540000 | $3,386.50 |
| Energy Charge/Hours Used | 42,840.00 | kWh | @ | $ 0.07930000 | $3,397.21 |
| Energy Charge/Hours Used | 37,670.00 | kWh | @ | $ 0.05340000 | $2,011.58 |
| Base Energy Charge / Hours Used | 0.00 | kWh | @ | $ 0.06620000 | $0.00 |
| Customer Charge | | | | | $104.86 |
| Fuel Adjustment Charge | 112,640.00 | kWh | @ | $ 0.00041000 | $46.18 |
| Energy Efficiency Investment Charge | 112,640.00 | kWh | @ | $ 0.00326200 | $367.43 |
| Renewable Energy Adjustment | 112,640.00 | kWh | @ | $-0.00050000 | $-56.32 |
| | | | | Total Service Amount | $10,514.79 |

**Total Electric Charges** **$10,514.79**



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

**Address Changes or Corrections**

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

**AmerenMissouri.com/WaysToPay**

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

**Ameren MISSOURI**

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

FOCUSED ENERGY. For life.

| | |
|---|---|
| Account Number | 5580005920 |
| Customer Name | ALLIANCE WATER RESOURCES INC |
| Service Address | 3 ANDERSON RD<br>LAKE OZARK, MO 65049 |

| | |
|---|---|
| **AMOUNT DUE** | **$132.86** |
| **Due Date** | **08/30/2022** |
| Amount After Due Date | $134.19 |
| Previous Statement | $240.35 |
| Total Payments | $240.35 |

*Payment Received. Thank You.*

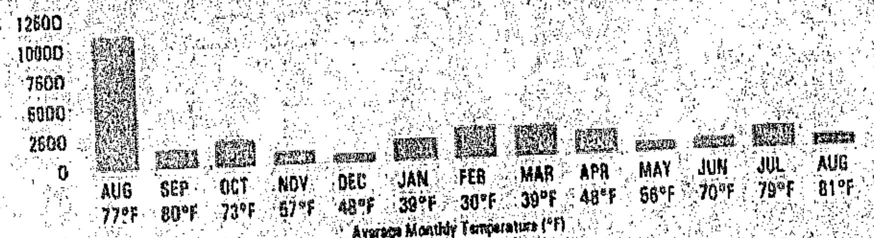
**Current Detail for Statement 08/09/2022**

| | |
|---|---|
| Total Electric Charges | $132.86 |
| **Total Amount Due** | **$132.86** |

RECEIVED AUG 0 9 2022

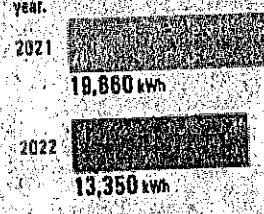
**Electric Usage History**

Electric Usage in Kilowatt Hours (kWh)




**Electric Usage Summary (kWh)**

So far this year, you're using **32.1% less** than last year.




Usage from Jan-Aug for 2021 & 2022

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

GL Acct#: 4175
Signature: [signature]
Date: 8/9/22

Keep this portion for your records.



» See next page for service details.

Please return this portion with your payment.

**Ameren MISSOURI**

☐ Check if you have address changes on back.

| Amount Due | Due Date |
|---|---|
| $132.86 | August 30, 2022 |
| **Delinquent Amount After Due Date** | **Account Number** |
| $134.19 | 5580005920 |

**Amount Enclosed $** ____________

>000549 2109801 0003 092139 10Z

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

**AMEREN MISSOURI**
PO BOX 88068
CHICAGO IL 60680-1068

70633000 0055800059200 000000132860 000000132860

Ameren MISSOURI

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

FOCUSED ENERGY. For life.

Service from 07/07/2022 - 08/07/2022 (31 days)

## Electric Service Details

**Electric Meter Read**

| METER NUMBER | SERVICE FROM - TO | NO. DAYS | USAGE TYPE | READING TYPE | CURRENT READING | PREVIOUS READING | READING DIFFERENCE | MULTIPLIER | USAGE |
|---|---|---|---|---|---|---|---|---|---|
| 98041275 | 07/07 - 08/07 | 31 | Total kWh | Actual | 24955.0000 | 24860.0000 | 95.0000 | 10.0000 | 950.0000 |
| 98041275 | 07/07 - 08/07 | 31 | Peak kW | Actual | 4.4460 | 0.0000 | 4.4460 | 10.0000 | 44.4600 |

**Usage Summary**

| | | | |
|---|---|---|---|
| Total kWh | 950.0000 | Summer kWh | 950.0000 |
| Winter Base kWh | 1830.0000 | Current Base kWh | 950.0000 |
| Summer Cur Base kWh | 950.0000 | 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 | 950.00 | kWh | @ | $ 0.11350000 | $107.83 |
| Base Energy Charge | 0.00 | kWh | @ | $ 0.08480000 | $0.00 |
| Seasonal Energy Charge | 0.00 | kWh | @ | $ 0.04880000 | $0.00 |
| Customer Charge | | | | | $21.86 |
| Fuel Adjustment Charge | 950.00 | kWh | @ | $ 0.00041000 | $0.39 |
| Energy Efficiency Investment Charge | 950.00 | kWh | @ | $ 0.00343000 | $3.26 |
| Renewable Energy Adjustment | 950.00 | kWh | @ | $-0.00050000 | $-0.48 |
| | | | | Total Service Amount | $132.86 |
| | | | | **Total Electric Charges** | **$132.86** |

## Payments Since Previous Statement

| DATE RECEIVED | AMOUNT |
|---|---|
| July 22, 2022 | $240.35 |



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

**Address Changes or Corrections**

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

AmerenMissouri.com/WaysToPay

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

***************
* GUEST COPY *
***************

RECEIVED
AUG 0 1 2022

JOINT SEWER BOARD
PO BOX 1985
#3 ANDERSON RD
LAKE OZARK MO 65049
FAX # (573)

MENARDS - LAKE OZARK
1015 Barred Owl Lane
Lake Ozark, MO 65049

INVOICE # 30688

ACCOUNT : 32880271

TRANSACTION DATE : 06/08/22
TRANSACTION TIME : 100629
REGISTER NUMBER : 10
SIGNER : gary hutchraft

TRANSACTION # : 296
PURCHASE ORDER # : Gary
TYPE OF SALE : Charge Sale
CLAIM # : Gary

| QUANTITY | SKU | DESCRIPTION | AMOUNT |
|---|---|---|---|
| 1.00 | | DELIVERY | 20.00 |
| 1.00 | | DELIVERY | 3.00 |
| 1.00 | | DELIVERY | 89.00 |
| 1.00 | 4538062 | REFRIG 18.7CF BTM WHT | 849.00 |
| 1.00 | 4534540 | CRITERION ICE MAKER | 99.99 |
| 1.00 | | DELIVERY | 0.00 |

SUB-TOTAL: 1,060.99
TOTAL TAX: 0.00
PAYMENTS : 0.00
==========
TOTAL DUE: 1,060.99

NEW LAB REFRIGERATOR

GL Acct#: E/R
Signature: Gary Hutchraft
Date: 8/1/22

Gary Hutchraft

USABlueBook
*Get the Best Treatment*™

# INVOICE

| INVOICE NO. | PAGE NO. |
|---|---|
| 066482 | 1 of 1 |
| CUSTOMER NO. | DATE |
| 1053309 | 08/03/22 |

Remit To:
P.O. Box 9004
Gurnee, IL 60031-9004
TEL: (847) 689-3000
FAX: (847) 689-3001
TOLL FREE: 1-800-493-9876
F.E.I.N.: 52-2418852

RECEIVED
AUG 09 2022

View online at: http://usabluebook.billtrust.com
Web Enrollment Token: GVZ KZT BWR

BILL TO: 1053309
122 1 SP 0.530 E0122X I0198 D9489724618 S2 P9184356 0001:0001

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

SHIP TO: 1

JOINT SEWER BOARD LAKE
OZARK-OSAGE BEACH
3 ANDERSON RD
LAKE OZARK MO 65049
USA

Ordered by: 0001 GARY HUTCHCRAFT
Attention: GARY HUTCHCRAFT

| CUSTOMER P.O. NO. | SHIP DATE | SLP | TERMS | TAX CODE | SALES ORDER NO. | W/H | FREIGHT | SHIP VIA |
|---|---|---|---|---|---|---|---|---|
| VERBAL GARY | 08/03/22 | CJC | NET 30 | MOEXEMPT | 390121 | 01 | FXD/PPD | FEDEXGRND |

| USA STOCK NO. | DESCRIPTION | ORDERED | SHIPPED | BACKORDER | U/M | PRICE | PER | EXTENSION |
|---|---|---|---|---|---|---|---|---|
| 65727 | Hach IntelliCal Rugged LDO Probe 5 M Cable LDO10105 | 1 | 1 | 0 | EA | 970.00 | EA | 970.00 |
| HACHSURCHA | Hach Surcharge | 1 | 1 | | EA | 116.40 | EA | 116.40 |

REPLACEMENT DO PROBE

GL Acct#: E/R
Signature: Gary Hutchcraft
Date: 8/9/22

THANK YOU for your business!
1.5% MONTHLY FINANCE CHARGE
ON AMOUNTS 30 DAYS PAST DUE
Discounts Apply to Merchandise Only

| MERCHANDISE | MISCELLANEOUS | DISCOUNT | TAX | FREIGHT | TOTAL |
|---|---|---|---|---|---|
| 970.00 | 116.40 | 0.00 | 0.00 | 11.04 | 1,097.44 |

Should it become necessary to refer your unpaid balance to a collection agency, a collection fee, not to exceed 25% of the balance referred, plus reasonable attorney's fees, and court costs when necessary, will be added to the balance due.

Please Detach and Return Bottom Portion to Ensure Proper Credit to Your Account

USABlueBook
*Get the Best Treatment*™

****IMPORTANT****
Please include this customer # on the face of your remittance check.

| INVOICE NO. | CUSTOMER NO. | DATE | TOTAL |
|---|---|---|---|
| 066482 | 1053309 | 08/03/22 | 1,097.44 |

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

REMITTANCE ADDRESS
USABlueBook
P.O. Box 9004
Gurnee, IL 60031-9004

0001:0001

INVOICE NO.
6804

# INVOICE

DISSEN ELECTRIC, INC.
P.O. Box 33
Kaiser, MO 65047
Ph. 573-302-0080
www.dissenelectric.com

RECEIVED
AUG 29 2022

BILL TO: Joint Sewer Board
c/o Alliance Water Resources

JOB: LOTO Regional Wastewater Trmt
Plant #1
Wood River Road

| CUSTOMER | PURCHASE ORDER NO. | | | | BILL THRU | TERMS | INVOICE DATE | PAGE |
|---|---|---|---|---|---|---|---|---|
| JSBRD | | | | | | Net 10 | 8/25/22 | 1 |

| ITEM NO. | QUANTITY | DESCRIPTION | UNIT PRICE | EXTENDED PRICE |
|---|---|---|---|---|
| | | Thank you, we appreciate your business! | | |
| | | If paying by credit/debit card, 3% will be added to invoice. | | |
| | 111 | LED14BDT8/G4/840 (DBL END TYPE B GLASS 4FT TUBE 14W 4000K) | 7.07 | 784.77 |
| | 4 | LED13BDT8/U6/840 (BALLAST BYPASS DE T8 U6-LED TUBE 4000K) | 20.54 | 82.16 |
| | 4 | LT8F43B250 (LED 42W 8FT T8 FA8 DE BY 50K) | 32.62 | 130.48 |
| | 1 | Materials to add 2 18" corrosion residtant Industrial fans, GFI receptacles and switches in RAS Basement. | 979.08 | 979.08 |
| | 1 | Labor. | 2,560.00 | 2,560.00 |

REPLACE ALL FLUORSCENT BULBS OVER TO LED BULBS

GL Acct#: E/R
Signature: [signature]
Date: 8/29/22

**Notice to Owner**
Failure of this contractor to pay those persons supplying material or services to complete this contract can result in the filing of a mechanics lien on the property which is the subject of this contract pursuant to chapter 429, RSMO. To avoid this result you may ask this contractor for "Lien Waivers" from all persons supplying material or services for the work described in this contracrt. Failure to secure lien waivers may result in your paying for labor and material twice.

A service charge of 1½% per month (18% Annual Percentage Rate) will be applied to all invoices 30 days past due.

| | |
|---|---|
| SALE AMOUNT | 4,536.49 |
| TOTAL | $4,536.49 |

Invoice No.
6805

# INVOICE

DISSEN ELECTRIC, INC.
P.O. Box 33
Kaiser, MO 65047
Ph. 573-302-0090
www.dissenelectric.com

RECEIVED
AUG 29 2022

BILL TO: Joint Sewer Board
c/o Alliance Water Resources

JOB: LOTO Regional Wastewater Trmt
Plant #1
Wood River Road

| CUSTOMER | PURCHASE ORDER NO. | | | | BILL THRU | TERMS | INVOICE DATE | PAGE |
|---|---|---|---|---|---|---|---|---|
| JSBRD | | | | | | Net 10 | 8/25/22 | 1 |

| ITEM NO. | QUANTITY | DESCRIPTION | UNIT PRICE | EXTENDED PRICE |
|---|---|---|---|---|
| | | Thank you, we appreciate your business! | | |
| | | If paying by credit/debit card, 3% will be added to invoice. | | |
| | 1 | Replace 34 tombstones on light fixtures. | 671.00 | 671.00 |

REPLACE THE BAD FIXTURE (TOMBSTONES)
IN HEAD WORKS BLDG.

GL Acct#: E/R
Signature: [signature]
Date: 8/29/22

**Notice to Owner**
Failure of this contractor to pay those persons supplying material or services to complete this contract can result in the filing of a mechanics lien on the property which is the subject of this contract pursuant to chapter 429, RSMO. To avoid this result you may ask this contractor for "Lien Waivers" from all persons supplying material or services for the work described in this contract. Failure to secure lien waivers may result in your paying for labor and material twice.

A service charge of $1\frac{1}{2}$% per month (18% Annual Percentage Rate) will be applied to all invoices 30 days past due.

| | |
|---|---|
| SALE AMOUNT | 671.00 |
| | |
| TOTAL | $671.00 |

# MONTH-TO-DATE AND YEAR-TO-DATE
## REVENUE/BUDGET ANALYSIS
### 8/31/2022

| Account Number | Account Name | 2020 Actual | 2021 Actual | 2022 Budget | 2022 Actual as of 8/31/2022 | 2022 August Revenue | Percent YTD |
|---|---|---|---|---|---|---|---|
| 3020 | Osage Beach | 475,836.10 | 465,202.63 | 470,050.00 | 305,449.72 | 38,618.28 | 65% |
| 3010 | Lake Ozark | 74,163.90 | 84,797.35 | 82,950.00 | 62,716.92 | 7,465.05 | 76% |
| 3030 | Misc. | 4,500.00 | 22,000.00 | 0.00 | 0.00 | 0.00 | 0% |
| 3100 | Interest | 4,019.49 | 2,700.22 | 2,500.00 | 1,108.83 | 130.56 | 44% |
| 3060 | Waste Haulers' Fee | 39,320.00 | 60,520.00 | 56,000.00 | 34,110.00 | 12,020.00 | 61% |
| | Total Operating Fund | 597,839.49 | 635,220.20 | 611,500.00 | 403,385.47 | 58,233.89 | 66% |
| | E/R Fund Income | 8,955.85 | 5,508.47 | 5,000.00 | 2,254.20 | 572.37 | 45% |
| | **TOTAL INCOME** | 606,795.34 | 640,728.67 | 616,500.00 | 405,639.67 | 58,806.26 | 66% |

# MONTH-TO-DATE AND YEAR-TO-DATE
## EXPENDITURE/BUDGET ANALYSIS
### 8/31/2022

| Account Number | Account Name | 2020 Actual | 2021 Actual | 2022 Budget | 2022 Actual as of 8/31/2022 | 2022 August Expenses | Percent YTD |
|---|---|---|---|---|---|---|---|
| 4000 | Equipment Replace Fund | 71,604.00 | 143,608.00 | 55,000.00 | 36,672.00 | 4,584.00 | 67% |
| 4020 | *Maintenance & Repair | 26,299.39 | 104,853.81 | 142,000.00 | 45,828.32 | 12,589.91 | 32% |
| 4140 | Insurance | 19,865.00 | 21,493.00 | 22,000.00 | 22,088.00 | 0.00 | 100% |
| 4150 | Vehicle Repair/Main | 12,479.74 | 11,099.99 | 8,000.00 | 5,949.59 | 561.00 | 74% |
| 4170 | Contract Management | 305,580.00 | 308,640.00 | 327,158.00 | 220,720.00 | 27,590.00 | 67% |
| 4175 | Electric | 75,077.36 | 82,227.41 | 92,000.00 | 51,069.89 | 10,647.65 | 56% |
| 4176 | Utilities Misc. | 2,485.59 | 3,528.17 | 3,750.00 | 2,554.23 | 170.59 | 68% |
| 4190 | Bank Charges | 32.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0% |
| 4200 | Audit | 2,648.50 | 2,600.00 | 2,700.00 | 2,700.00 | 0.00 | 100% |
| 4240 | Capital Purchases | 0.00 | 399.99 | 500.00 | 0.00 | 0.00 | 0% |
| | Totals | 516,072.18 | 678,450.37 | 653,108.00 | 387,582.03 | 56,143.15 | 59% |
| | **E/R Expenses | 85,258.27 | 202,161.70 | 59,500.00 | 5,885.27 | 2,567.07 | 10% |
| | **TOTAL EXPENSES** | 601,330.45 | 880,612.07 | 712,608.00 | 393,467.30 | 58,710.22 | 55% |

**4020 DETAIL: Equip & Bldg. Repair/Main.**

| | | |
|---|---|---|
| Auto Dialer Yrly Software Fee | 500 | Tier 1 |
| Regular Maintenance | 18,000 | Tier 1 |
| UV Bulbs, Quartz Sleeves, Misc | 10,000 | Tier 1 |
| Concrete Steps to outfall | 9,000 | Tier 1 X |
| Rock for road | 2,000 | Tier 1 |
| Parking Lot seamseal & sealcoa | 2,500 | Tier 1 |
| Take #2 Aeration Basin, grit ren | 100,000 | Tier 2 |
| | 142,000.00 | |

**DETAIL: Equipment & Replacement**

| | | |
|---|---|---|
| Replace garage door in headworl | 3,500 | Tier 1 X |
| Replace wooden doors w/fibergla | 2,000 | Tier 1 |
| Replace lab refrigerator/freezer | 3,500 | Tier 1 X |
| Replacement 6" valve for sludge | 500 | Tier 1 |
| Replace Light Fixtures in headwc | 5,000 | Tier 1 |
| *Replace aerator gear box - new | 45,000 | Tier 1 |
| | 59,500.00 | |

*Zeller Technologies, $74,900, est completion 2023

## OPERATING FUND INCOME AND EXPENSE SUMMARY
### 8/31/2022

| | |
|---|---|
| Beginning Balance | **313,102.92** |
| Income - Osage Beach | 38,618.28 |
| Income - Lake Ozark | 7,465.05 |
| Income - Other | - |
| Income - Waste Haulers' Fees | 12,020.00 |
| Interest - Checking | 8.81 |
| Income - CD Interest | 121.75 |
| Transfers From E/R Fund | - |
| Transfers To E/R Fund | (4,584.00) |
| Expenses | (51,859.76) |
| Ending Fund Balance | **314,893.05** |
| Central Bank - NOW Acct. | 102,507.14 |
| | - |
| CD First Bank of the Lake, 11/20/23 #8432 | 107,465.17 |
| CD First Bank of the Lake, 10/22/23 #8433 | 113,893.80 |
| | - |
| Outstanding Checks: | (8,973.06) |
| | **314,893.05** |

## EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
### 8/31/2022

| | |
|---|---|
| Beginning Balance | **509,888.36** |
| Interest - Checking | 164.03 |
| Income - CD Interest | 408.34 |
| Transfers From Operating Fund | 4,584.00 |
| Income - Miscellaneous | - |
| Expenses | (2,567.07) |
| Ending Fund Balance | **512,477.66** |
| First Bank of the Lake - Money Mkt. | 132,417.81 |
| CD First Bank of the Lake, 10/31/22 #8430 | 110,059.85 |
| CD First Bank of the Lake, 2/07/23 #8434 | 270,000.00 |
| | - |
| | - |
| Outstanding Checks: | - |
| | **512,477.66** |

WATER RESOURCES®
Alliance
Professional Water and Wastewater Operations

**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 August 2022**

Submitted by Alliance Water Resources, Inc. for the

September 2022

Joint Sewer Board Meeting

## SUMMARY OF FACILITY OPERATION

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

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

## PLANT EFFLUENT QUALITY

| | BOD mg/l | TSS mg/l | pH | E.coli Coliform Colonies/100 ml | Ammonia as N mg/L | O&G mg/L |
|---|---|---|---|---|---|---|
| Monthly/Quarterly Avg | 1.8 | 1.6 | N/A | 10.0 | 0.33 | < 4.9 |
| Peak Day | 2.5 | 2.2 | 8.0 | < 20 | 1.15 | < 4.9 |
| Percent Removal | 99.1 | 99.3 | N/A | N/A | N/A | N/A |

## NPDES EFFLUENT LIMITATIONS

| | BOD mg/l | TSS mg/l | pH | E.coli Coliform Colonies/100 ml | Ammonia as N mg/L | O&G mg/L |
|---|---|---|---|---|---|---|
| Monthly/Quarterly Avg | 30 | 30 | 6-9 | 126 | 1.3 | 10 |
| Weekly Average | 45 | 45 | | 630 | | |
| Daily Max | | | | N/A | 10.1 | 15 |

## PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.654 MGD or 55% of Permitted flow with Lake Ozark contributing 17% of the total flow and Osage Beach contributing 83%. 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 87434 pounds of BOD.

## BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 108 tanker loads of bio-solids during the month equivalent to a total of 388,800 gallons and 120,426 pounds dry weight solids.

394,576 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 270,000 gallons with a level of 2.0 feet in Tank 1 and 4.0 feet in Tank 2.

## WASTEHAULERS

The plant received 168 loads of septage during the month totaling 300,000 gallons.

## WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.
- The new lab refrigerator got delivered on the 1st of August.

## WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Antero Maintenance Data Management schedule. (New version of Operator 10 Software)
- We took the lower clean out plates for the RAS pumps up to Larry Roemer one at a time to have him weld/build up the worn bolt holes starting the 3rd week of July. Then we took the sludge loading station pipe to him to have him weld the new Italian hose end on it on the 2nd of August.
- Charlton Paving & Slurry Seal LLC was here on the 2nd of August to seal the parking lot and came back on the 7th to fasten down the curb stops and do some touch ups.
- We installed the new bearings on bar screen #1 rake wiper assembly on the 16th of August.
- We changed out a couple UV wiper end sensors on the 17th of August.
- Dissen Electric started the light replacement project on the 16th of August and when they started to do the headworks building, they found that the bulb sockets/tombstones on the existing light fixture were bad and ask if it would be okay to replace what was needed at a cost of $671.00 extra. I contacted Matt & Kevin was given the go ahead and they finished the project on 23rd.

## SAFETY

- We conducted our monthly Safety Meeting on Lockout/Tagout and Lockout/Tagout Simulation on the 11th of August.

## REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the new EDMR on the EPA MoGEM website on the 7th of September.

## MISCELLANEOUS AND RECOMMENDATIONS

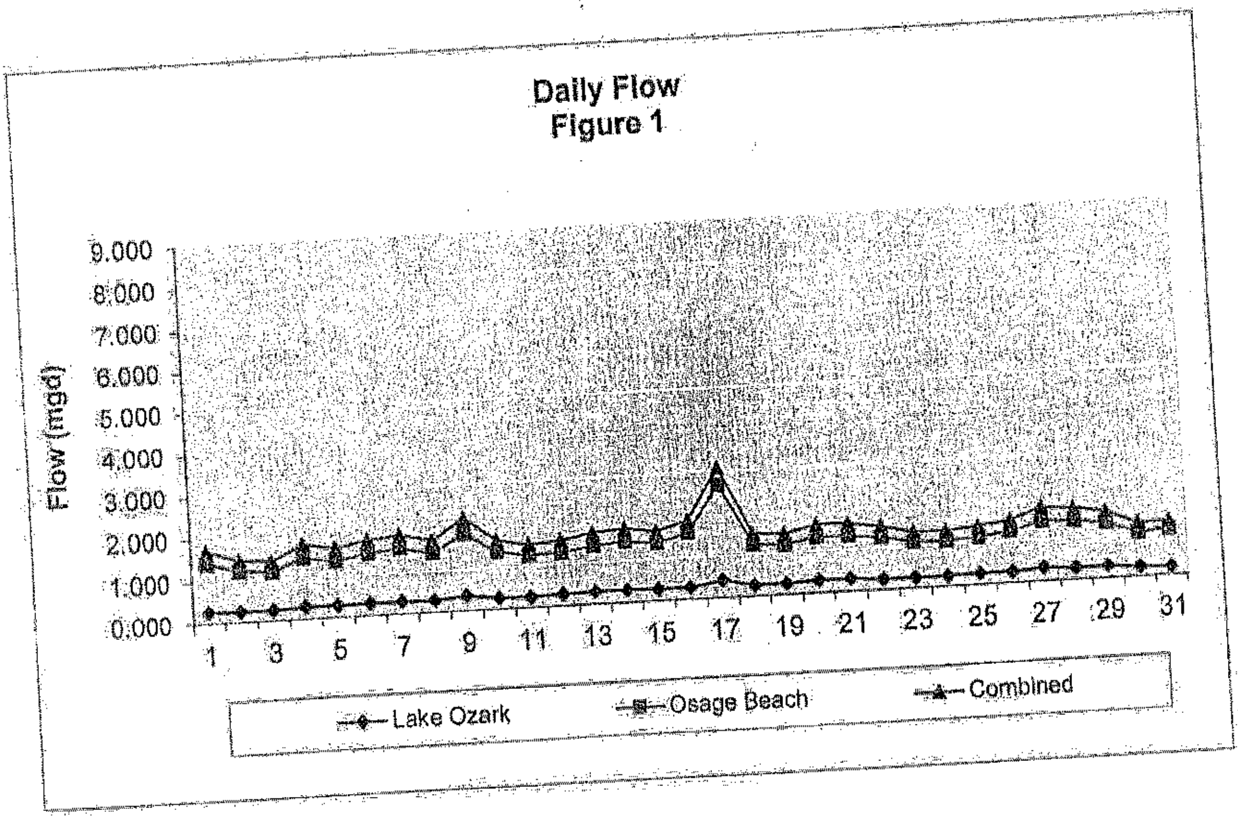
- We have included our annual Capital Improvement Items for consideration list for 2023 and plan on having the 5-year CIP ready for the October meeting because we are still waiting on some vendors to get some cost numbers back to us.

# TABLE A
# LAKE OZARK/OSAGE BEACH WWTP

MONTH OF August 2022

| DATE | RAIN FALL IN. | FLOW: LO mgd | FLOW: OB mgd | FLOW: COMB mgd | FLOW: % LO | FLOW: % OB | BOD 5 MG/L: LO mg/l | BOD 5 MG/L: OB mg/l | BOD 5 MG/L: COMB mg/l | TSS MG/L: LO mg/l | TSS MG/L: OB mg/l | TSS MG/L: COMB mg/l |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1-Aug | 0 | 0.283 | 1.426 | 1.709 | 16.6 | 83.4 | | | | | | |
| 2-Aug | 0 | 0.260 | 1.230 | 1.490 | 17.4 | 82.6 | | | | | | |
| 3-Aug | 0 | 0.255 | 1.181 | 1.436 | 17.8 | 82.2 | | | | | | |
| 4-Aug | 1.2 | 0.304 | 1.466 | 1.770 | 17.2 | 82.8 | 250 | 189 | 235 | 192 | 86 | 300 |
| 5-Aug | 0 | 0.295 | 1.349 | 1.644 | 17.9 | 82.1 | | | | | | |
| **6-Aug** | 0 | **0.300** | **1.503** | **1.803** | **16.6** | **83.4** | | | | | | |
| **7-Aug** | 0 | **0.310** | **1.570** | **1.880** | **16.5** | **83.5** | | | | | | |
| 8-Aug | 0 | 0.286 | 1.426 | 1.712 | 16.7 | 83.3 | | | | | | |
| 9-Aug | 0 | 0.357 | 1.828 | 2.185 | 16.3 | 83.7 | | | | | | |
| 10-Aug | 2.6 | 0.273 | 1.367 | 1.640 | 16.6 | 83.4 | | | | | | |
| 11-Aug | 0 | 0.257 | 1.253 | 1.510 | 17.0 | 83.0 | 185 | 163 | 245 | 128 | 136 | 226 |
| 12-Aug | 0 | 0.282 | 1.275 | 1.557 | 18.1 | 81.9 | | | | | | |
| **13-Aug** | 0 | **0.303** | **1.396** | **1.699** | **17.8** | **82.2** | | | | | | |
| **14-Aug** | 0 | **0.309** | **1.454** | **1.763** | **17.5** | **82.5** | | | | | | |
| 15-Aug | 0 | 0.279 | 1.377 | 1.656 | 16.8 | 83.2 | | | | | | |
| 16-Aug | 0 | 0.279 | 1.586 | 1.865 | 15.0 | 85.0 | | | | | | |
| 17-Aug | 1.7 | 0.419 | 2.661 | 3.080 | 13.6 | 86.4 | | | | | | |
| 18-Aug | 1 | 0.256 | 1.234 | 1.490 | 17.2 | 82.8 | 183 | 108 | 145 | 152 | 106 | 146 |
| 19-Aug | 0 | 0.265 | 1.188 | 1.453 | 18.2 | 81.8 | | | | | | |
| **20-Aug** | 0 | **0.302** | **1.324** | **1.626** | **18.6** | **81.4** | | | | | | |
| **21-Aug** | 0 | **0.302** | **1.324** | **1.626** | **18.6** | **81.4** | | | | | | |
| 22-Aug | 0 | 0.251 | 1.253 | 1.504 | 16.7 | 83.3 | | | | | | |
| 23-Aug | 0 | 0.234 | 1.105 | 1.339 | 17.5 | 82.5 | | | | | | |
| 24-Aug | 0 | 0.246 | 1.083 | 1.329 | 18.5 | 81.5 | | | | | | |
| 25-Aug | 0 | 0.259 | 1.136 | 1.395 | 18.6 | 81.4 | 220 | 145 | 193 | 120 | 114 | 232 |
| 26-Aug | 0 | 0.260 | 1.240 | 1.500 | 17.3 | 82.7 | | | | | | |
| **27-Aug** | 0 | **0.315** | **1.435** | **1.750** | **18.0** | **82.0** | | | | | | |
| **28-Aug** | 0 | **0.279** | **1.414** | **1.693** | **16.5** | **83.5** | | | | | | |
| 29-Aug | 0 | 0.277 | 1.316 | 1.593 | 17.4 | 82.6 | | | | | | |
| 30-Aug | 0 | 0.224 | 1.050 | 1.274 | 17.6 | 82.4 | | | | | | |
| 31-Aug | 0 | 0.195 | 1.099 | 1.294 | 15.1 | 84.9 | | | | | | |
| SUM | 6.8 | 8.716 | 42.549 | 51.265 | | | | | | | | |
| AVG | | 0.281 | 1.373 | 1.654 | 17 | 83 | 210 | 151 | 205 | 148 | 111 | 226 |

NOTE: BOLD PRINT INDICATES WEEKEND DAYS


Daily Flow
Figure 1
Flow (mgd)
9.000
8.000
7.000
6.000
5.000
4.000
3.000
2.000
1.000
0.000
1
3
5
7
9
11
13
15
17
19
21
23
25
27
29
31
Lake Ozark
Osage Beach
Combined

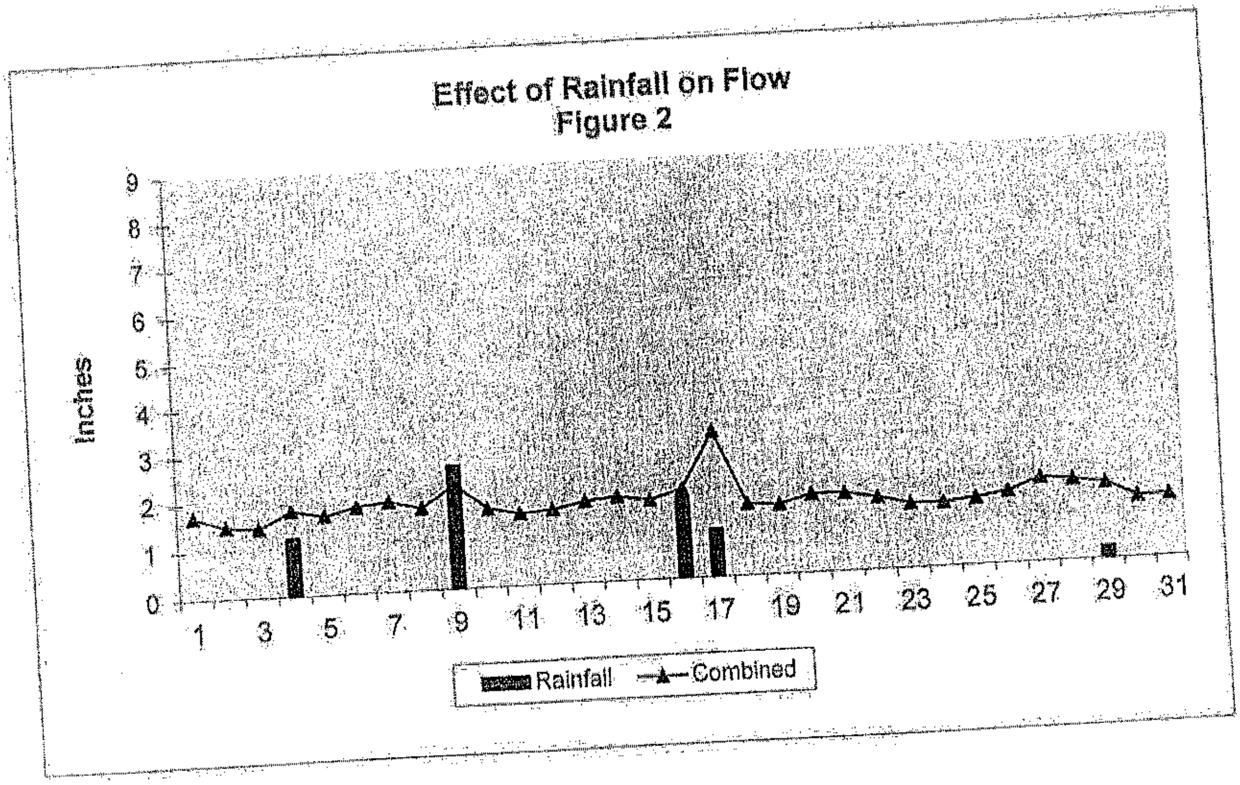
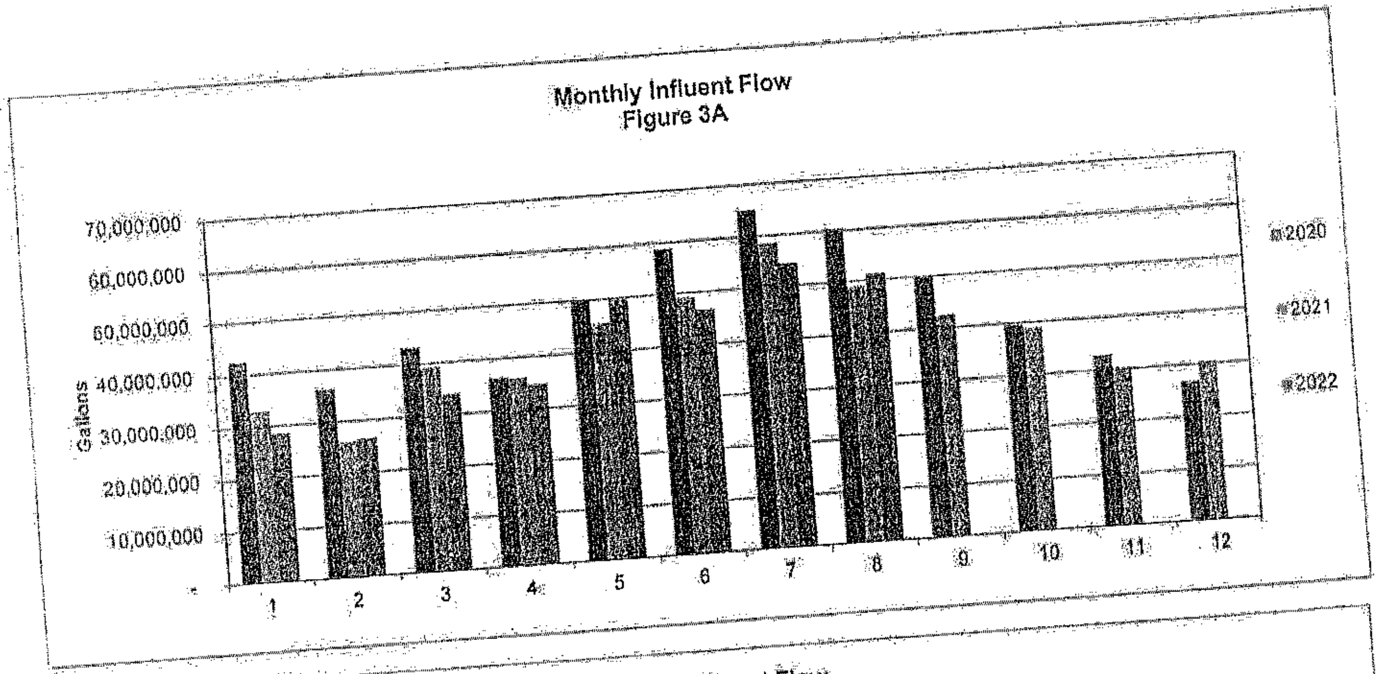

Effect of Rainfall on Flow
Figure 2
Inches
9
8
7
6
5
4
3
2
1
0
1
3
5
7
9
11
13
15
17
19
21
23
25
27
29
31
Rainfall
Combined

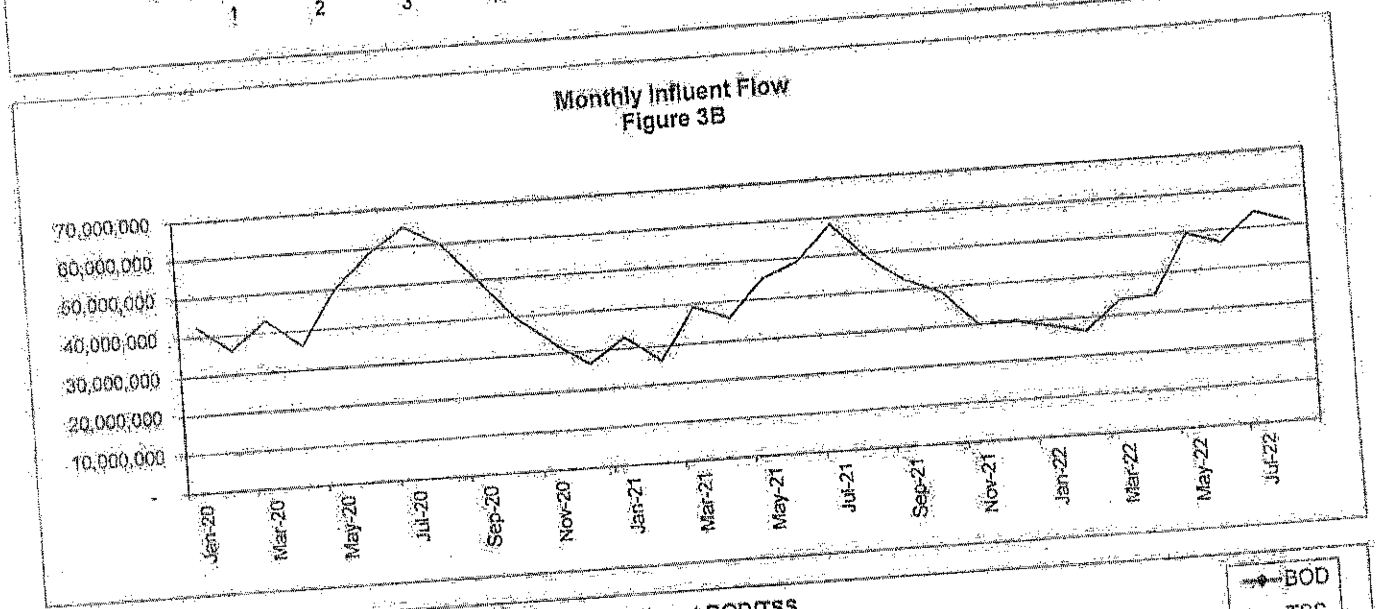
TABLE B
JOINT SEWER BOARD
Monthly Flows

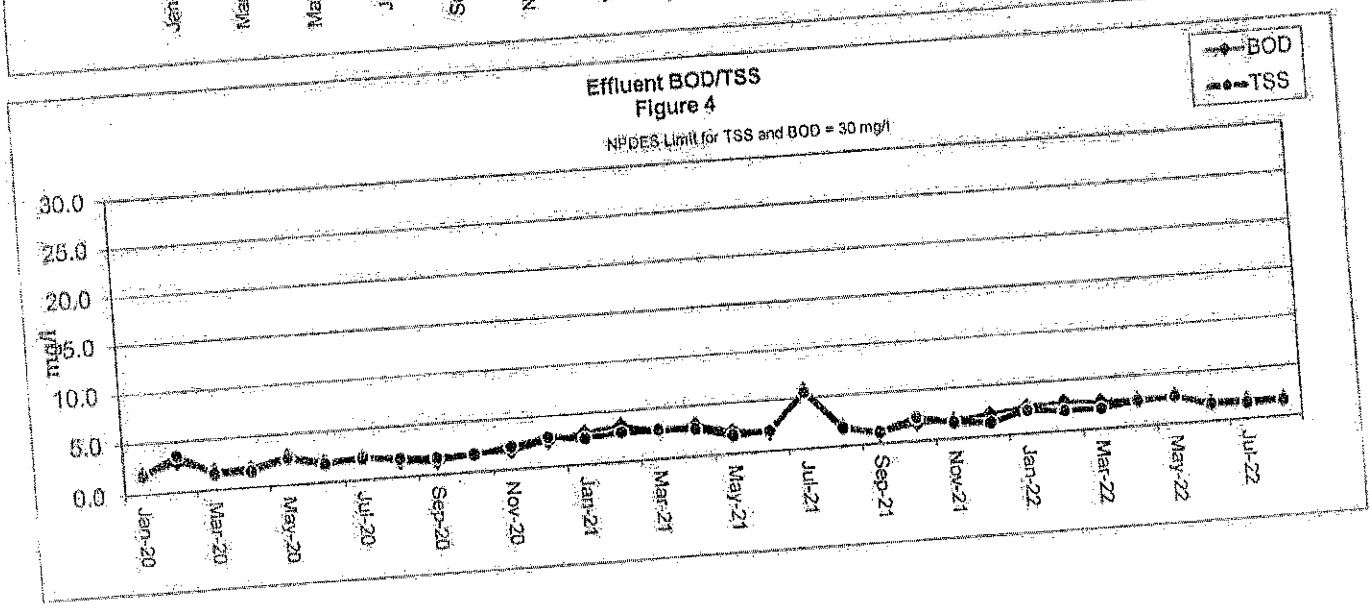
| 2020 | RAINFALL | OSAGE BEACH | | LAKE OZARK | | TOTAL | % |
|---|---|---|---|---|---|---|---|
| January | 7.7 | 36,806,000 | 86% | 5,780,000 | 14% | 42,586,000 | 100% |
| February | 3.6 | 31,279,000 | 86% | 4,986,000 | 14% | 36,265,000 | 100% |
| March | 6.1 | 37,286,000 | 86% | 5,888,000 | 14% | 43,174,000 | 100% |
| April | 5.2 | 31,967,000 | 88% | 4,324,000 | 12% | 36,291,000 | 100% |
| May | 5.3 | 43,538,000 | 87% | 6,443,000 | 13% | 49,981,000 | 100% |
| June | 4.8 | 50,936,000 | 87% | 7,780,000 | 13% | 58,716,000 | 100% |
| July | 6.9 | 56,437,000 | 87% | 8,616,000 | 13% | 65,053,000 | 100% |
| August | 2.3 | 52,449,000 | 87% | 7,883,000 | 13% | 60,332,000 | 100% |
| September | 8.4 | 42,235,000 | 85% | 7,636,000 | 15% | 49,871,000 | 100% |
| October | 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 | RAINFALL | OSAGE BEACH | | LAKE OZARK | | TOTAL | % |
|---|---|---|---|---|---|---|---|
| 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 | 6.0 | 32,925,000 | 85% | 5,987,000 | 15% | 38,912,000 | 100% |
| November | 0.8 | 25,192,000 | 83% | 5,025,000 | 17% | 30,217,000 | 100% |
| December | 2.3 | 25,041,000 | 82% | 5,317,000 | 18% | 30,358,000 | 100% |
| | 52.2 | 403,341,000 | 84% | 74,860,000 | 16% | 478,201,000 | 100% |

| 2022 | RAINFALL | OSAGE BEACH | | LAKE OZARK | | TOTAL | % |
|---|---|---|---|---|---|---|---|
| January | 1.7 | 23,599,000 | 83% | 4,824,000 | 17% | 28,423,000 | 100% |
| February | 3.8 | 21,853,000 | 83% | 4,610,000 | 17% | 26,463,000 | 100% |
| March | 5.2 | 28,266,000 | 83% | 5,657,000 | 17% | 33,923,000 | 100% |
| April | 6.3 | 28,580,000 | 82% | 6,088,000 | 18% | 34,668,000 | 100% |
| May | 9.1 | 41,076,000 | 83% | 8,597,000 | 17% | 49,673,000 | 100% |
| June | 3.3 | 39,125,000 | 84% | 7,563,000 | 16% | 46,688,000 | 100% |
| July | 2.6 | 45,728,000 | 84% | 8,591,000 | 16% | 54,319,000 | 100% |
| August | 6.8 | 42,549,000 | 83% | 8,716,000 | 17% | 51,265,000 | 100% |
| September | | | | | | | |
| October | | | | | | | |
| November | | | | | | | |
| December | | | | | | | |
| | 38.7 | 270,776,000 | 83% | 54,646,000 | 17% | 325,422,000 | 100% |

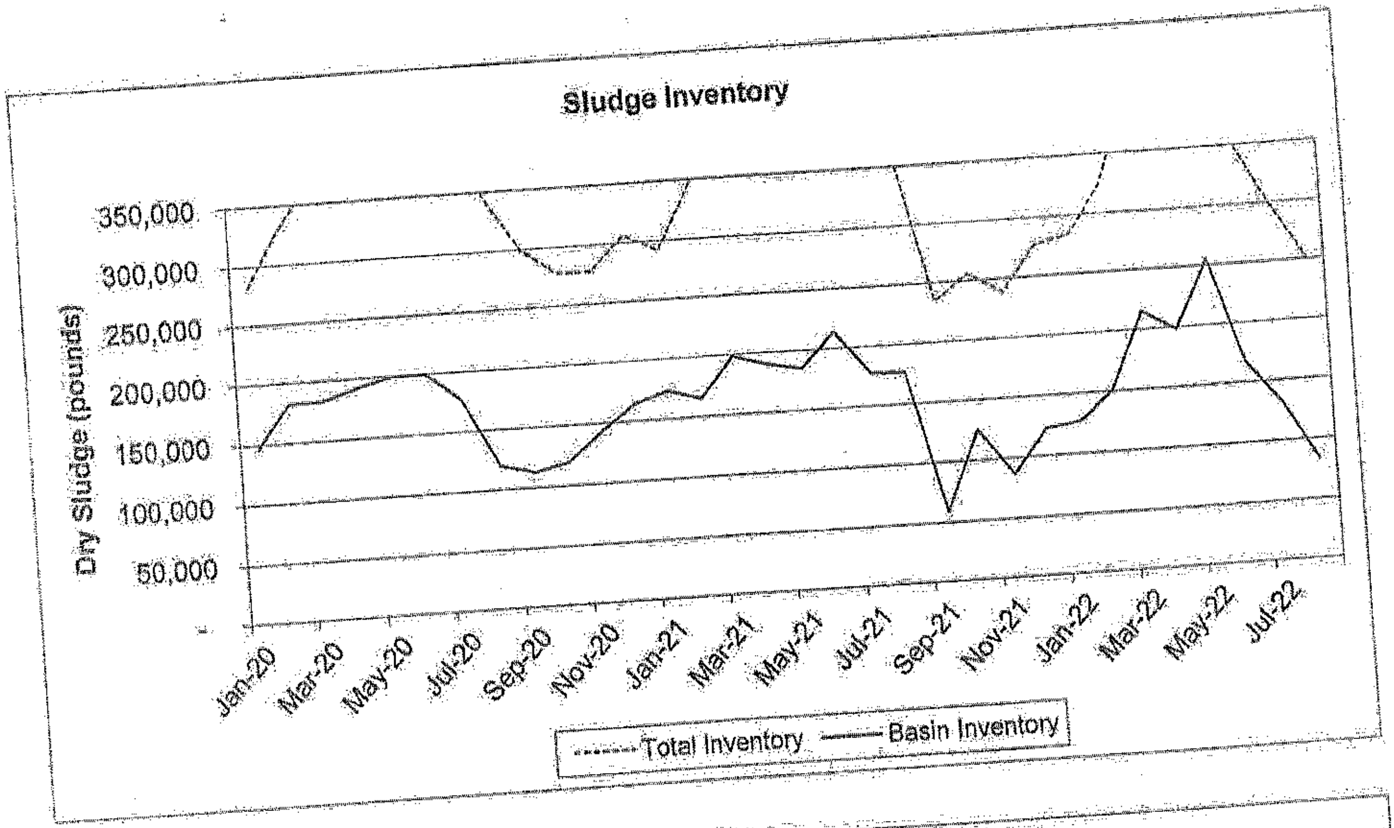

Monthly Influent Flow
Figure 3A
70,000,000
60,000,000
50,000,000
40,000,000
30,000,000
20,000,000
10,000,000
Gallons
1
2
3
4
5
6
7
8
9
10
11
12
2020
2021
2022


Monthly Influent Flow
Figure 3B
70,000,000
60,000,000
50,000,000
40,000,000
30,000,000
20,000,000
10,000,000
Jan-20
Mar-20
May-20
Jul-20
Sep-20
Nov-20
Jan-21
Mar-21
May-21
Jul-21
Sep-21
Nov-21
Jan-22
Mar-22
May-22
Jul-22

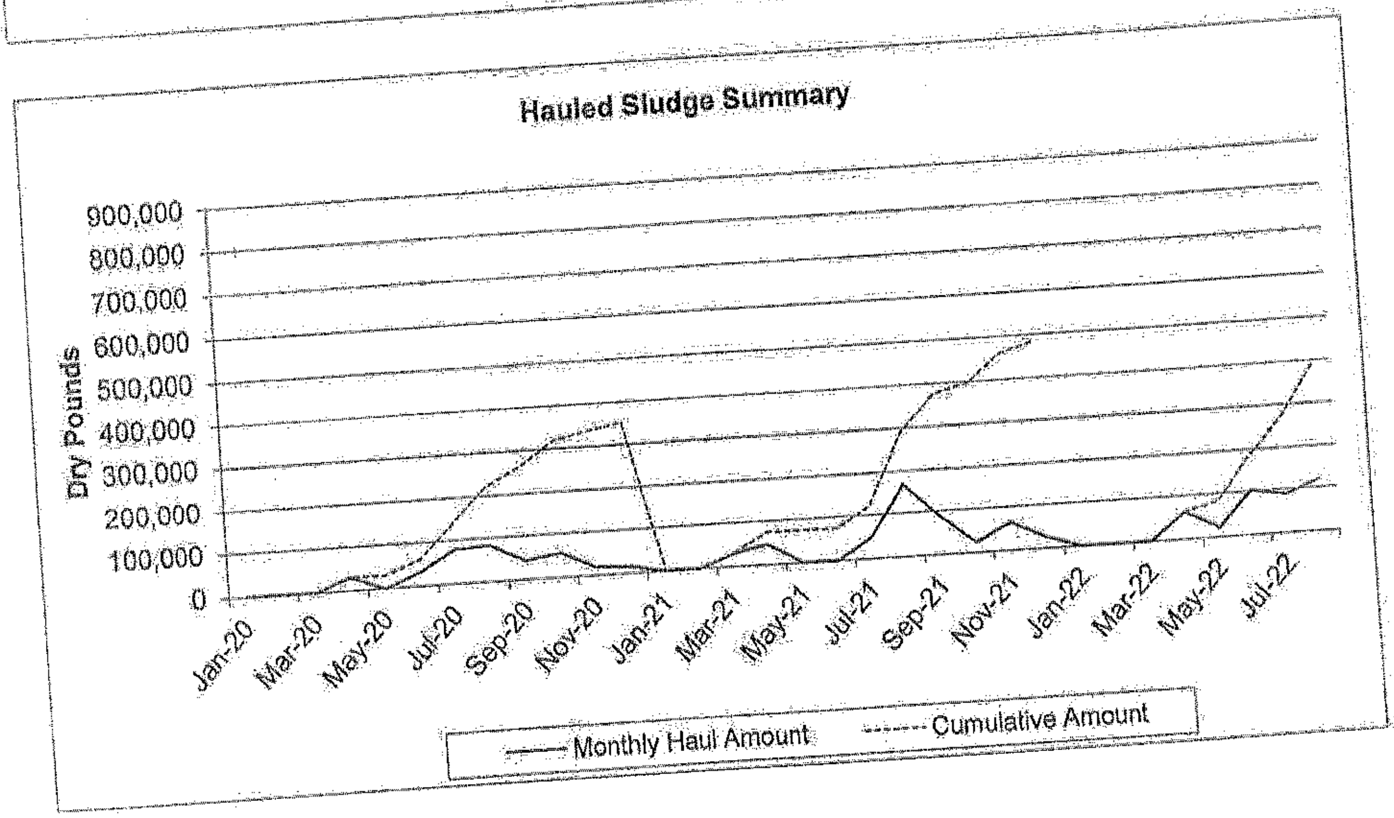

Effluent BOD/TSS
Figure 4
NPDES Limit for TSS and BOD = 30 mg/l
BOD
TSS
30.0
25.0
20.0
15.0
10.0
5.0
0.0
mg/l
Jan-20
Mar-20
May-20
Jul-20
Sep-20
Nov-20
Jan-21
Mar-21
May-21
Jul-21
Sep-21
Nov-21
Jan-22
Mar-22
May-22
Jul-22

| Month | Hauled Sludge Loads | Hauled Sludge Gallons | Hauled Sludge # Dry | Hauled Sludge % Solids | Annual Cumulative # Dry | Basin Depths Tank #1 | Basin Depths Tank #2 | Basin Depths AB #1 | Basin Gallons | # Dry | Blanket Depths Clarf #1 | Blanket Depths Clarf #2 | Blanket Depths Clarf #3 | MLSS Inventory MLSS AB #1 | MLSS Inventory MLSS AB #2 | Blanket and MLSS Inventory Gallons | Blanket and MLSS Inventory # Dry | MLSS % Solids | Total Dry Sludge Inventory | Accepted Septage Loads | Accepted Septage Gallons |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jan-20 | 0 | - | 0 | 3.9% | | 6.0 | 4.0 | 0.0 | 450,000 | 148,357 | 1.0 | 1.5 | 0.0 | 4,250 | 4,690 | 3,544,405 | 136,015 | 0.00446 | 282,352 | 16 | 34,100 |
| Feb-20 | 0 | - | 0 | 3.9% | - | 6.5 | 6.0 | 0.0 | 562,500 | 182,959 | 3.5 | 2.0 | 0.0 | 5,190 | 4,390 | 3,597,691 | 147,718 | 0.00479 | 330,676 | 23 | 57,000 |
| Mar-20 | 0 | - | 0 | 3.9% | - | 5.5 | 7.0 | 0.0 | 562,500 | 182,959 | 2.0 | 5.0 | 1.0 | 5,760 | 5,940 | 3,767,762 | 183,825 | 0.00585 | 366,794 | 25 | 64,500 |
| Apr-20 | 25 | 92,500 | 29,315 | 3.8% | 29,315 | 6.0 | 7.5 | 0.0 | 607,500 | 192,528 | 1.0 | 1.0 | 1.0 | 5,740 | 5,290 | 3,678,952 | 169,214 | 0.00552 | 361,742 | 39 | 107,000 |
| May-20 | 0 | - | 0 | 3.8% | 29,315 | 6.0 | 8.0 | 0.0 | 630,000 | 199,660 | 1.0 | 7.0 | 1.0 | 6,010 | 6,110 | 3,785,524 | 191,322 | 0.00606 | 390,981 | 35 | 83,000 |
| Jun-20 | 25 | 92,500 | 31,660 | 4.1% | 60,975 | 6.0 | 7.0 | 0.0 | 585,000 | 200,228 | 6.0 | 7.0 | 0.5 | 7,050 | 7,120 | 3,852,620 | 227,647 | 0.00709 | 427,875 | 6 | 18,000 |
| Jul-20 | 69 | 255,300 | 77,268 | 3.6% | 138,243 | 6.0 | 7.0 | 0.0 | 585,000 | 177,054 | 7.0 | 7.0 | 1.0 | 6,890 | 7,380 | 3,892,096 | 231,603 | 0.00714 | 408,656 | 85 | 208,000 |
| Aug-20 | 76 | 281,200 | 83,286 | 3.6% | 221,529 | 5.0 | 4.0 | 0.0 | 405,000 | 119,953 | 6.0 | 6.0 | 1.0 | 6,530 | 7,400 | 3,556,572 | 224,021 | 0.00697 | 343,974 | 67 | 158,000 |
| Sep-20 | 38 | 140,600 | 41,627 | 3.5% | 263,156 | 4.0 | 4.5 | 0.0 | 382,500 | 113,246 | 1.0 | 1.0 | 0.5 | 6,000 | 6,200 | 3,657,238 | 196,056 | 0.0061 | 299,304 | 45 | 104,500 |
| Oct-20 | 45 | 166,500 | 55,296 | 4.0% | 318,454 | 5.0 | 3.0 | 0.0 | 360,000 | 119,563 | 1.0 | 1.0 | 1.0 | 4,950 | 5,070 | 3,678,952 | 158,015 | 0.00515 | 277,578 | 16 | 32,000 |
| Nov-20 | 18 | 66,600 | 19,255 | 3.5% | 337,709 | 5.0 | 6.0 | 0.0 | 495,000 | 143,111 | 1.0 | 0.0 | 0.5 | 4,780 | 4,080 | 3,639,476 | 134,455 | 0.00443 | 277,576 | 16 | 36,000 |
| Dec-20 | 11 | 40,700 | 14,843 | 4.4% | 352,552 | 4.5 | 5.5 | 0.0 | 450,000 | 164,112 | 1.0 | 0.0 | 0.5 | 5,030 | 4,360 | 3,639,476 | 142,508 | 0.0047 | 306,620 | 33 | 69,000 |
| Jan-21 | 0 | - | 0 | 4.4% | - | 7.0 | 3.5 | 0.0 | 472,500 | 173,389 | 6.0 | 0.0 | 1.0 | 3,810 | 3,780 | 3,750,000 | 118,699 | 0.0038 | 292,077 | 83 | 205,500 |
| Feb-21 | 0 | - | 0 | 4.4% | - | 5.0 | 5.0 | 0.0 | 450,000 | 165,132 | 5.0 | 8.0 | 0.0 | 5,490 | 5,750 | 3,830,905 | 179,556 | 0.00552 | 344,690 | 28 | 59,500 |
| Mar-21 | 23 | 85,100 | 26,883 | 4.1% | 28,883 | 6.0 | 7.0 | 0.0 | 585,000 | 198,549 | 2.0 | 5.0 | 0.5 | 6,230 | 6,330 | 3,746,048 | 205,573 | 0.00658 | 404,122 | 32 | 70,000 |
| Apr-21 | 39 | 144,300 | 45,269 | 3.8% | 74,152 | 6.0 | 7.5 | 0.0 | 607,500 | 190,582 | 12.0 | 5.0 | 1.0 | 6,890 | 5,350 | 3,945,382 | 201,375 | 0.00612 | 391,957 | 22 | 52,000 |
| May-21 | 0 | - | 0 | 3.8% | 74,152 | 6.0 | 7.0 | 0.0 | 585,000 | 185,398 | 13.0 | 14.0 | 1.0 | 6,200 | 6,330 | 4,123,002 | 215,427 | 0.00627 | 400,825 | 48 | 128,500 |
| Jun-21 | 0 | - | 0 | 3.8% | 74,152 | 7.0 | 8.0 | 0.0 | 675,000 | 213,921 | 6.0 | 7.5 | 2.0 | 7,260 | 8,060 | 3,925,643 | 234,903 | 0.00717 | 448,824 | 63 | 151,500 |
| Jul-21 | 40 | 144,000 | 47,378 | 3.9% | 121,530 | 5.0 | 7.0 | 0.0 | 540,000 | 177,668 | 7.0 | 12.0 | 3.0 | 9,190 | 8,110 | 4,067,762 | 279,340 | 0.00823 | 457,007 | 117 | 289,000 |
| Aug-21 | 153 | 550,800 | 165,363 | 3.6% | 287,893 | 7.0 | 6.0 | 0.0 | 585,000 | 176,693 | 1.0 | 1.0 | 0.5 | 6,160 | 5,840 | 3,657,238 | 183,008 | 0.0060 | 359,701 | 66 | 163,000 |
| Sep-21 | 92 | 331,200 | 87,226 | 3.2% | 375,119 | 2.0 | 3.0 | 0.0 | 225,000 | 59,257 | 1.0 | 1.0 | 0.5 | 5,320 | 6,180 | 3,667,238 | 175,383 | 0.0058 | 234,640 | 62 | 159,500 |
| Oct-21 | 17 | 61,200 | 22,698 | 4.4% | 397,817 | 3.5 | 4.0 | 0.0 | 337,500 | 125,173 | 1.0 | 0.5 | 0.5 | 4,430 | 4,140 | 3,648,357 | 130,381 | 0.0043 | 255,554 | 34 | 80,000 |
| Nov-21 | 46 | 165,600 | 63,621 | 4.6% | 461,438 | 3.0 | 2.0 | 0.0 | 225,000 | 86,442 | 0.5 | 1.0 | 0.0 | 5,130 | 4,980 | 3,526,643 | 152,138 | 0.0050 | 238,580 | 37 | 83,000 |
| Dec-21 | 16 | 57,600 | 24,139 | 5.0% | 485,577 | 4.0 | 2.5 | 0.0 | 292,500 | 122,581 | 1.0 | 1.0 | 0.0 | 4,540 | 5,630 | 3,635,524 | 154,179 | 0.0051 | 276,759 | 27 | 62,000 |
| Jan-22 | 0 | - | 0 | 4.5% | | 4.5 | 3.0 | 0.0 | 337,500 | 126,664 | 1.0 | 3.5 | 0.0 | 5,060 | 5,180 | 3,679,929 | 157,136 | 0.0051 | 283,800 | 13 | 27,000 |
| Feb-22 | 0 | - | 0 | 4.0% | | 7.0 | 3.0 | 0.0 | 450,000 | 150,120 | 4.0 | 1.5 | 0.0 | 6,280 | 5,030 | 3,697,691 | 174,393 | 0.0057 | 324,513 | 32 | 68,000 |
| Mar-22 | 0 | - | 0 | 4.4% | | 6.0 | 7.0 | 0.0 | 585,000 | 214,672 | 9.0 | 10.0 | 0.0 | 5,870 | 5,760 | 3,937,476 | 190,464 | 0.0058 | 405,135 | 23 | 48,000 |
| Apr-22 | 47 | 169,200 | 62,120 | 4.4% | 62,120 | 7.0 | 5.0 | 0.0 | 540,000 | 198,255 | 10.0 | 10.0 | 1.0 | 7,100 | 5,600 | 3,995,666 | 211,765 | 0.0054 | 410,021 | 52 | 124,500 |
| May-22 | 16 | 57,600 | 21,017 | 4.4% | 83,137 | 8.5 | 7.0 | 0.0 | 697,500 | 254,503 | 2.0 | 10.0 | 1.0 | 6,290 | 6,630 | 3,856,572 | 207,778 | 0.0065 | 462,281 | 37 | 85,000 |
| Jun-22 | 84 | 302,400 | 102,052 | 4.0% | 185,189 | 7.0 | 4.0 | 0.0 | 495,000 | 167,049 | 4.5 | 0.5 | 1.5 | 5,760 | 6,010 | 3,753,952 | 184,247 | 0.0059 | 351,297 | 42 | 93,500 |
| Jul-22 | 80 | 288,000 | 88,961 | 3.7% | 274,150 | 7.0 | 2.5 | 0.0 | 427,500 | 132,051 | 8.0 | 3.0 | 1.5 | 4,740 | 5,850 | 3,860,524 | 166,296 | 0.0052 | 298,348 | 33 | 69,500 |
| Aug-22 | 106 | 388,800 | 120,426 | 3.7% | 394,576 | 2.0 | 4.0 | 0.0 | 270,000 | 83,629 | 1.5 | 1.0 | 0.5 | 5,490 | 5,420 | 3,866,119 | 166,789 | 0.0055 | 250,418 | 168 | 300,000 |

(32)



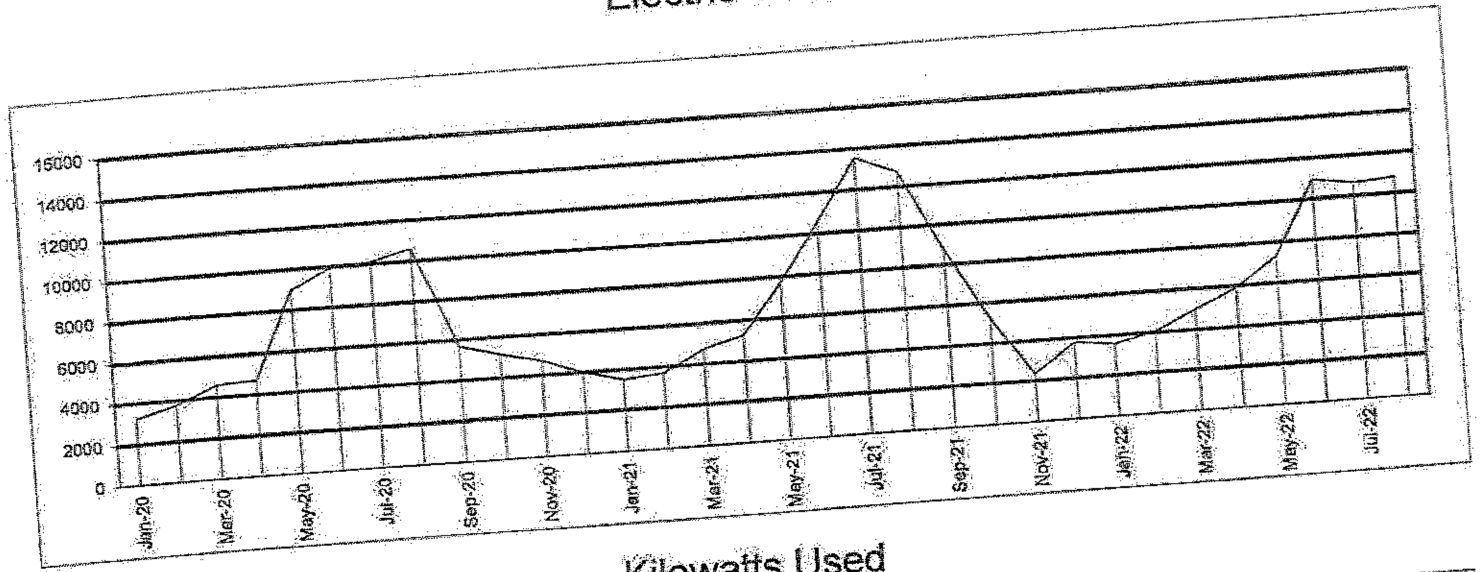
Sludge Inventory
Dry Sludge (pounds)
350,000
300,000
250,000
200,000
150,000
100,000
50,000
-
Jan-20
Mar-20
May-20
Jul-20
Sep-20
Nov-20
Jan-21
Mar-21
May-21
Jul-21
Sep-21
Nov-21
Jan-22
Mar-22
May-22
Jul-22
Total Inventory
Basin Inventory

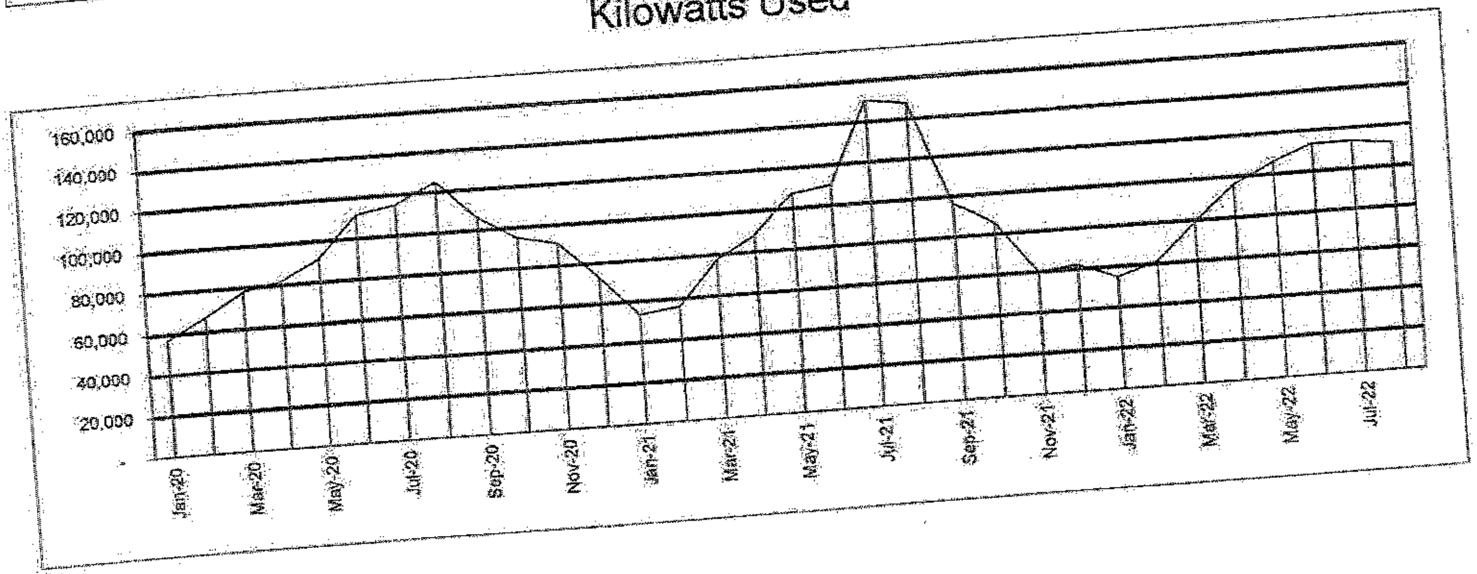
Hauled Sludge Summary
Dry Pounds
900,000
800,000
700,000
600,000
500,000
400,000
300,000
200,000
100,000
0
Jan-20
Mar-20
May-20
Jul-20
Sep-20
Nov-20
Jan-21
Mar-21
May-21
Jul-21
Sep-21
Nov-21
Jan-22
Mar-22
May-22
Jul-22
Monthly Haul Amount
Cumulative Amount

| | Electric Cost | Kilowatts Used |
|---|---|---|
| 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 |
| Oct-21 | 5233 | 85,530 |
| Nov-21 | 2348 | 60,370 |
| Dec-21 | 3776 | 62,100 |
| Jan-22 | 3547 | 55,070 |
| Feb-22 | 4063 | 61,330 |
| Mar-22 | 4979 | 79,050 |
| Apr-22 | 5907 | 96,160 |
| May-22 | 7292 | 106,100 |
| Jun-22 | 10958 | 113,870 |
| Jul-22 | 10648 | 113,590 |
| Aug-22 | 10800 | 111,690 |

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 |
|---|---|---|---|
| Aug-22 | 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 | | | | 25.3 | 2.004 | 7.6 | | | | 8.1 | < 20 | 25.7 | | |
| 2 | 7.2 | | | | 24.5 | 1.755 | 7.8 | | | | 8.0 | | 26.2 | | |
| 3 | 7.0 | | | 38.8 | 24.1 | 1.689 | 8.0 | | | 0.13 | 6.9 | | 25.5 | | |
| 4 | 7.2 | | | | 24.6 | 2.098 | 7.7 | | | | 7.0 | | 25.6 | | |
| 5 | 7.1 | 235 | 300 | | 25.1 | 1.841 | 7.9 | 2.1 | 2.2 | | 7.6 | | 26.3 | 99.1 | 99.3 |
| 6 | 7.0 | | | | 25.3 | 2.082 | 7.5 | | | | 8.1 | | 26.2 | | |
| 7 | 7.0 | | | | 24.4 | 2.146 | 7.6 | | | | 7.9 | | 26.5 | | |
| 8 | 7.0 | | | | 25.7 | 1.988 | 7.6 | | | | 8.1 | < 20 | 26.9 | | |
| 9 | 7.0 | | | | 24.8 | 2.472 | 7.7 | | | | 8.1 | | 25.4 | | |
| 10 | 6.9 | | | | 24.7 | 2.015 | 7.5 | | | | 8.3 | | 25.6 | | |
| 11 | 7.0 | | | 36.6 | 24.2 | 1.707 | 7.6 | | | 0.24 | 8.4 | | 24.7 | | |
| 12 | 7.1 | 245 | 226 | | 24.4 | 1.854 | 7.9 | 1.6 | 0.8 | | 8.3 | | 25.1 | 99.3 | 99.6 |
| 13 | 7.0 | | | | 24.0 | 1.995 | 7.6 | | | | 8.3 | | 24.1 | | |
| 14 | 7.3 | | | | 24.6 | 2.058 | 7.9 | | | | 8.3 | | 25.2 | | |
| 15 | 7.1 | | | | 25.3 | 1.944 | 7.6 | | | | 8.3 | < 20 | 26.1 | | |
| 16 | 7.0 | | | | 22.6 | 1.975 | 7.7 | | | | 8.1 | | 23.9 | | |
| 17 | 7.2 | | | | 22.9 | 3.574 | 7.7 | | | | 8.5 | | 24.0 | | |
| 18 | 7.0 | | | 19.9 | 23.7 | 1.793 | 7.8 | | | 1.15 | 7.5 | | 24.0 | | |
| 19 | 7.0 | 145 | 146 | | 23.5 | 1.695 | 7.4 | 2.5 | 1.8 | | 8.5 | | 24.0 | 98.3 | 98.8 |
| 20 | 7.0 | | | | 23.7 | 1.923 | 7.4 | | | | 8.4 | | 23.9 | | |
| 21 | 7.0 | | | | 22.6 | 2.030 | 7.5 | | | | 8.4 | | 23.7 | | |
| 22 | 6.9 | | | | 23.9 | 1.774 | 7.5 | | | | 8.5 | < 20 | 24.3 | | |
| 23 | 7.0 | | | | 23.8 | 1.671 | 7.5 | | | | 8.5 | | 24.2 | | |
| 24 | 6.9 | | | 35.5 | 23.9 | 1.645 | 7.7 | | | 0.04 | 8.5 | | 24.2 | | |
| 25 | 7.0 | | | | 24.1 | 1.588 | 7.4 | | | | 8.5 | | 24.5 | | |
| 26 | 7.1 | 193 | 232 | | 24.5 | 1.800 | 7.4 | 1.0 | 1.4 | | 8.4 | | 25.0 | 99.5 | 99.4 |
| 27 | 7.3 | | | | 23.2 | 2.043 | 7.8 | | | | 8.3 | | 24.4 | | |
| 28 | 7.1 | | | | 25.0 | 2.033 | 7.6 | | | | 8.2 | | 25.2 | | |
| 29 | 7.3 | | | | 25.2 | 1.881 | 7.9 | | | | 8.2 | < 20 | 25.8 | | |
| 30 | 7.4 | | | | 24.3 | 1.591 | 8.0 | | | | 8.3 | | 25.3 | | |
| 31 | 7.0 | | | 30.9 | 24.3 | 1.605 | 7.7 | | | 0.075 | 8.5 | | 24.6 | | |
| Total | | | | | | 60.269 | | | | | | | | | |
| Avg | | 205 | 226 | 32.7 | 24.3 | 1.944 | | 1.8 | 1.6 | 0.33 | 8.2 | 10.0 | 25.0 | 99.1 | 99.3 |
| Min | 6.9 | 145 | 146 | 19.9 | 22.6 | 1.588 | 7.4 | 1.0 | 0.8 | 0.04 | 6.9 | < 20 | 23.7 | 98.3 | 98.8 |
| Max | 7.4 | 245 | 300 | 38.8 | 25.7 | 3.574 | 8.0 | 2.5 | 2.2 | 1.15 | 8.5 | < 20 | 26.9 | 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 | | | | | | | | | | |
| 16 | | | | | | | | | | |
| 17 | | | | | | | | 3.5 | 2.1 | <0.10 |
| 18 | 0.96 | 3.4 | 0.53 | | | | | | | |
| 19 | | | | | | | | | | |
| 20 | | | | | | | | | | |
| 21 | | | | | | | | | | |
| 22 | | | | | | | | | | |
| 23 | | | | | | | | | | |
| 24 | | | | | | | | | | |
| 25 | | | | | | | | | | |
| 26 | | | | | | | | | | |
| 27 | | | | | | | | | | |
| 28 | | | | | | | | | | |
| 29 | | | | | | | | | | |
| 30 | | | | | | | | | | |
| 31 | | | | | | | | | | |
| Total | 0.96 | 3.4 | 0.53 | | | | | 3.5 | 2.1 | <0.10 |
| Avg | 0.96 | 3.4 | 0.53 | | | | | 3.5 | 2.1 | <0.10 |
| Min | 0.96 | 3.4 | 0.53 | | | | | 3.5 | 2.1 | <0.10 |
| Max | 0.96 | 3.4 | 0.53 | | | | | 3.5 | 2.1 | <0.10 |

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

| DATE | SLUDGE DISP. LBS. DRY WEIGHT | #1 Aeration Basin, O-Ditch, Etc. MIXED LIQUOR * DO mg/l | ** MLSS mg/l | *Settleability *30 min ml | Temp °C | #2 Aeration Basin, O-Ditch, Etc. MIXED LIQUOR * DO mg/l | ** MLSS mg/l | *Settleability *30 min ml | Temp °C | *Weather Conditions Outside * Ambient Temp °F | *RAIN Inches | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 9,998 | 1.0 | 5,800 | 850 | 25.8 | 0.9 | 6,300 | 870 | 26.0 | 78 | 0 | 7:30 |
| 2 | 12,730 | 0.7 | 6,340 | 900 | 24.6 | 0.9 | 6,220 | 870 | 24.5 | 75 | 0 | 7:30 |
| 3 | 6,095 | 0.6 | 6,720 | 900 | 26.0 | 0.9 | 6,060 | 880 | 25.5 | 78 | 0 | 7:30 |
| 4 | | 0.7 | 6,520 | 870 | 25.1 | 0.8 | 5,880 | 810 | 25.0 | 74 | 1.2 | 7:30 |
| 5 | | 1.0 | 6,240 | 810 | 25.6 | 0.6 | 6,310 | 860 | 25.3 | 75 | 0 | 7:30 |
| 6 | | 1.0 | 5,940 | 870 | 25.8 | 1.1 | 6,630 | 900 | 25.9 | 76 | 0 | 7:30 |
| 7 | | 0.9 | 5,760 | 860 | 25.9 | 1.0 | 6,480 | 910 | 25.9 | 75 | 0 | 7:30 |
| 8 | | 0.7 | 5,920 | 880 | 26.7 | 0.6 | 6,650 | 900 | 26.5 | 77 | 0 | 7:30 |
| 9 | | 0.5 | 5,580 | 800 | 25.2 | 0.5 | 6,230 | 930 | 25.1 | 74 | 2.6 | 7:30 |
| 10 | 7,986 | 2.5 | 6,120 | 880 | 25.0 | 2.4 | 5,910 | 870 | 25.1 | 69 | 0 | 7:30 |
| 11 | 8,197 | 1.0 | 5,420 | 880 | 24.6 | 1.4 | 5,140 | 840 | 24.6 | 65 | 0 | 7:30 |
| 12 | 9,037 | 1.0 | 6,260 | 900 | 24.9 | 1.2 | 5,460 | 850 | 24.9 | 69 | 0 | 7:30 |
| 13 | | 1.4 | 5,590 | 840 | 22.4 | 1.2 | 6,210 | 900 | 22.8 | 71 | 0 | 7:30 |
| 14 | | 0.7 | 6,050 | 800 | 24.6 | 0.7 | 6,080 | 830 | 24.4 | 75 | 0 | 7:30 |
| 15 | 7,686 | 0.7 | 5,670 | 860 | 25.9 | 0.8 | 5,790 | 870 | 25.1 | 73 | 0 | 7:30 |
| 16 | | 0.3 | 5,150 | 710 | 23.2 | 0.4 | 4,900 | 670 | 23.2 | 68 | 1.7 | 7:30 |
| 17 | | 0.6 | 6,070 | 820 | 23.2 | 0.5 | 5,990 | 850 | 23.6 | 68 | 1.0 | 7:30 |
| 18 | | 1.9 | 5,790 | 850 | 23.5 | 1.1 | 6,170 | 900 | 23.4 | 65 | 0 | 7:30 |
| 19 | 6,845 | 1.8 | 5,870 | 860 | 23.4 | 2.1 | 5,360 | 840 | 23.5 | 64 | 0 | 7:30 |
| 20 | | 1.8 | 5,080 | 840 | 23.7 | 1.7 | 5,010 | 800 | 23.8 | 71 | 0 | 7:30 |
| 21 | | 2.0 | 4,780 | 780 | 23.5 | 1.5 | 5,550 | 880 | 23.6 | 67 | 0 | 7:30 |
| 22 | | 1.3 | 5,550 | 830 | 24.2 | 1.1 | 5,140 | 830 | 24.3 | 67 | 0 | 7:30 |
| 23 | 8,167 | 1.1 | 6,040 | 820 | 24.1 | 1.2 | 5,100 | 840 | 24.0 | 66 | 0 | 7:30 |
| 24 | 8,647 | 1.5 | 4,980 | 830 | 23.9 | 1.3 | 5,350 | 850 | 24.0 | 68 | 0 | 7:30 |
| 25 | 8,647 | 1.5 | 5,290 | 800 | 24.1 | 1.7 | 5,310 | 810 | 24.3 | 68 | 0 | 7:30 |
| 26 | 8,407 | 1.2 | 5,720 | 830 | 25.0 | 1.3 | 5,210 | 790 | 24.8 | 71 | 0 | 7:30 |
| 27 | | 1.3 | 6,560 | 840 | 23.3 | 1.2 | 5,500 | 700 | 23.1 | 73 | 0 | 7:30 |
| 28 | | 1.1 | 5,080 | 620 | 25.5 | 1.1 | 5,780 | 660 | 24.5 | 75 | 0 | 7:30 |
| 29 | 5,104 | 1.1 | 5,040 | 790 | 25.5 | 1.2 | 4,560 | 720 | 25.3 | 73 | 0.25 | 7:30 |
| 30 | | 1.3 | 5,900 | 850 | 24.9 | 1.1 | 5,560 | 780 | 24.7 | 69 | 0 | 7:30 |
| 31 | 6,936 | 1.5 | 5,490 | 820 | 24.4 | 1.5 | 5,420 | 820 | 24.4 | 64 | 0 | 7:30 |

COMMENTS:

| TESTS PERFORMED BY (PRINT) | SIGNATURE | PHONE # | DATE |
|---|---|---|---|
| John Hornback | John Hornback | (573)365-0455 | 9/7/2022 |
| REPORT APPROVED BY (PRINT) | SIGNATURE | PHONE # | DATE |
| Gary Hutchcraft | Gary Hutchcraft | (573)365-0455 | 9/7/2022 |

*Required Daily (Monday - Friday)

**Required 1/week

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

| Permit Number | Outfall Number |
|---|---|
| MO0103241 | 001M |
| Monitoring Period | |
| 8/1/22 | 8/31/22 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|---|---|---|---|---|---|---|
| **Flow, in conduit or thru treatment plant**<br>Mon. Location.: End of Pipe<br>Sample Type: Total Measured<br>Frequency: Daily | *****<br>*****;***** | *****<br>*****;***** | *****<br>*****;***** | ***** | 3.574<br>Daily Max.:Monitoring Required | 1.944<br>Monthly Avg.:Monitoring Required | Mgal/d |
| **BOD, 5-day, 20 deg. C**<br>Mon. Location.: End of Pipe<br>Sample Type: 24 Hour Composite<br>Frequency: Weekly | *****<br>*****;***** | 2.5<br>Weekly Avg.:45 | 1.8<br>Monthly Avg.:30 | mg/L | *****<br>*****;***** | *****<br>*****;***** | ***** |
| **Total Suspended Solids (TSS)**<br>Mon. Location.: End of Pipe<br>Sample Type: 24 Hour Composite<br>Frequency: Weekly | *****<br>*****;***** | 2.2<br>Weekly Avg.:45 | 1.6<br>Monthly Avg.:30 | mg/L | *****<br>*****;***** | *****<br>*****;***** | ***** |
| **Escherichia coli (E. coli)**<br>Mon. Location.: End of Pipe<br>Sample Type: Grab<br>Frequency: Weekly | *****<br>*****;***** | <20<br>7 Day Geo.:630 | 10.0<br>30 Day Geo. Mean:126 | #/100mL | *****<br>*****;***** | *****<br>*****;***** | ***** |
| **Phosphorus, total (as P)**<br>Mon. Location.: End of Pipe<br>Sample Type: 24 Hour Composite<br>Frequency: Monthly | 0.96<br>Daily Max.:Monitoring Required | *****<br>*****;***** | 0.96<br>Monthly Avg.:Monitoring Required | mg/L | *****<br>*****;***** | *****<br>*****;***** | ***** |
| **Nitrogen, Kjeldahl, total (as N)**<br>Mon. Location.: End of Pipe<br>Sample Type: 24 Hour Composite<br>Frequency: Monthly | 3.4<br>Daily Max.:Monitoring Required | *****<br>*****;***** | 3.4<br>Monthly Avg.:Monitoring Required | mg/L | *****<br>*****;***** | *****<br>*****;***** | ***** |
| **Nitrite plus nitrate total (as N)**<br>Mon. Location.: End of Pipe<br>Sample Type: 24 Hour Composite<br>Frequency: Monthly | 0.53<br>Daily Max.:Monitoring Required | *****<br>*****;***** | 0.53<br>Monthly Avg.:Monitoring Required | mg/L | *****<br>*****;***** | *****<br>*****;***** | ***** |
| **Nitrogen, ammonia total (as** | 1.15 | ***** | 0.33 | mg/L | ***** | ***** | ***** |

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| N)<br>Mon. Location.: End of Pipe<br>Sample Type: 24 Hour Composite<br>Frequency: Weekly | | | | | *****;***** | *****;***** | |
| | Daily Max.:10.1 | *****;***** | Monthly Avg:1.3 | | | | |
| pH<br>Mon. Location.: End of Pipe<br>Sample Type: Grab<br>Frequency: Weekly | 7.4 | ***** | 8.0 | SU | ***** | ***** | ***** |
| | Minimum:6.0 | *****;***** | Maximum:9.0 | | *****;***** | *****;***** | |
| BOD, 5-day, percent removal<br>Mon. Location.: End of Pipe<br>Sample Type: Calculated<br>Frequency: Monthly | ***** | ***** | 98.3 | % | ***** | ***** | ***** |
| | *****;***** | *****;***** | Monthly Avg. Min.:85 | | *****;***** | *****;***** | |
| Suspended Solids, percent removal<br>Mon. Location.: End of Pipe<br>Sample Type: Calculated<br>Frequency: Monthly | ***** | ***** | 98.8 | % | ***** | ***** | ***** |
| | *****;***** | *****;***** | Monthly Avg. Min.:85 | | *****;***** | *****;***** | |

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

| Permit Number | Outfall Number |
|---|---|
| MO0103241 | INFIM |
| Monitoring Period | |
| 8/1/22 | 8/31/22 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|---|---|---|---|---|---|---|
| **BOD, 5-day, 20 deg. C** Mon. Location.: Influent Sample Type: 24 Hour Composite Frequency: Monthly | ***** | ***** | 205 | mg/L | ***** | ***** | ***** |
| | *****;***** | *****;***** | Monthly Avg.:Monitoring Required | | *****;***** | *****;***** | |
| **Total Suspended Solids (TSS)** Mon. Location.: Influent Sample Type: 24 Hour Composite Frequency: Monthly | ***** | ***** | 226 | mg/L | ***** | ***** | ***** |
| | *****;***** | *****;***** | Monthly Avg.:Monitoring Required | | *****;***** | *****;***** | |
| **Nitrogen, ammonia total (as N)** Mon. Location.: Influent Sample Type: 24 Hour Composite Frequency: Monthly | 38.8 | ***** | 32.7 | mg/L | ***** | ***** | ***** |
| | Daily Max.:Monitoring Required | *****;***** | Monthly Avg.:Monitoring Required | | *****;***** | *****;***** | |
| **Phosphorus, total (as P)** Mon. Location.: Influent Sample Type: 24 Hour Composite Frequency: Monthly | 3.5 | ***** | 3.5 | mg/L | ***** | ***** | ***** |
| | Daily Max.:Monitoring Required | *****;***** | Monthly Avg.:Monitoring Required | | *****;***** | *****;***** | |
| **Nitrogen, Kjeldahl, total (as N)** Mon. Location.: Influent Sample Type: 24 Hour Composite Frequency: Monthly | 2.1 | ***** | 2.1 | mg/L | ***** | ***** | ***** |
| | Daily Max.:Monitoring Required | *****;***** | Monthly Avg.:Monitoring Required | | *****;***** | *****;***** | |
| **Nitrite plus nitrate total (as N)** Mon. Location.: Influent Sample Type: 24 Hour Composite Frequency: Monthly | <0.10 | ***** | <0.10 | mg/L | ***** | ***** | ***** |
| | Daily Max.:Monitoring Required | *****;***** | Monthly Avg.:Monitoring Required | | *****;***** | *****;***** | |

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 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<br>Gary Hutchcraft | Submission Date<br>September 7, 2022 | User Phone Number<br>(573)365-0455 |

LAKE OZARK/OSAGE BEACH WWTP
Operation Report

For AUGUST 2022

| Date | Oper. | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | JFH | 0.281 | 1.426 | 1.559 | | | | | | | | | | 6.98 | 25.3 |
| 2 | GH | 0.260 | 1.230 | 1.490 | | | | | | | 38.8 | | | 7.22 | 24.5 |
| 3 | JFH | 0.255 | 1.181 | 1.436 | | | | | | | | | | 7.04 | 24.1 |
| 4 | RG/JFH | 0.304 | 1.466 | 1.770 | | | | | | | | | | 7.15 | 24.8 |
| 5 | RG/GH | 0.295 | 1.349 | 1.644 | 250 | 185 | 233 | 192 | 86 | 300 | | | | 7.14 | 25.1 |
| 6 | JFH | 0.300 | 1.503 | 1.803 | | | | | | | | | | 6.98 | 25.3 |
| 7 | JFH | 0.310 | 1.570 | 1.880 | | | | | | | | | | 6.99 | 24.9 |
| 8 | JFH | 0.286 | 1.426 | 1.712 | | | | | | | | | | 6.98 | 25.7 |
| 9 | RG/GH | 0.357 | 1.828 | 2.185 | | | | | | | | | | 7.04 | 24.8 |
| 10 | JFH | 0.273 | 1.367 | 1.640 | | | | | | | 38.0 | | | 6.91 | 24.7 |
| 11 | JFH | 0.257 | 1.253 | 1.510 | | | | | | | | | | 7.03 | 24.2 |
| 12 | JFH | 0.282 | 1.275 | 1.557 | 185 | 167 | 245 | 126 | 136 | 220 | | | | 7.13 | 23.4 |
| 13 | RG/GH | 0.301 | 1.398 | 1.699 | | | | | | | | | | 7.03 | 24.0 |
| 14 | RG/GH | 0.309 | 1.454 | 1.763 | | | | | | | | | | 7.33 | 24.6 |
| 15 | GH | 0.279 | 1.377 | 1.656 | | | | | | | | | | 7.06 | 25.3 |
| 16 | RG/JFH | 0.279 | 1.586 | 1.865 | | | | | | | | | | 7.02 | 22.6 |
| 17 | RG/JFH | 0.419 | 2.661 | 3.080 | | | | | | | 19.6 | 3.5 | 2.1 | <0.10 | 7.15 | 22.9 |
| 18 | GH | 0.256 | 1.234 | 1.490 | | | | | | | | | | 6.98 | 23.7 |
| 19 | JFH | 0.265 | 1.188 | 1.453 | 183 | 188 | 145 | 132 | 106 | 146 | | | | 6.95 | 23.5 |
| 20 | JFH | 0.303 | 1.324 | 1.626 | | | | | | | | | | 6.96 | 23.7 |
| 21 | JFH | 0.302 | 1.324 | 1.626 | | | | | | | | | | 6.97 | 22.6 |
| 22 | JFH | 0.251 | 1.253 | 1.504 | | | | | | | | | | 6.90 | 23.9 |
| 23 | JFH | 0.234 | 1.105 | 1.339 | | | | | | | 35.5 | | | 7.02 | 23.8 |
| 24 | JFH | 0.246 | 1.083 | 1.329 | | | | | | | | | | 6.93 | 23.9 |
| 25 | JFH | 0.259 | 1.136 | 1.395 | | | | | | | | | | 6.98 | 24.1 |
| 26 | JFH | 0.260 | 1.240 | 1.500 | 220 | 145 | 193 | 120 | 113 | 232 | | | | 7.10 | 24.5 |
| 27 | RG/GH | 0.315 | 1.435 | 1.750 | | | | | | | | | | 7.28 | 24.4 |
| 28 | RG/GH | 0.279 | 1.414 | 1.693 | | | | | | | | | | 7.05 | 25.0 |
| 29 | GH | 0.277 | 1.316 | 1.593 | | | | | | | | | | 7.33 | 25.2 |
| 30 | GH | 0.224 | 1.050 | 1.274 | | | | | | | 39.9 | | | 7.42 | 25.3 |
| 31 | GH | 0.195 | 1.099 | 1.294 | | | | | | | | | | 7.02 | 24.3 |
| TOTAL | | 8.716 | 42.559 | 51.255 | 838 | 605 | 816 | 592 | 443 | 984 | 163.7 | 3.5 | 2.1 | <0.10 | 219.1 | 751.6 |
| MAX | | 0.419 | 2.661 | 3.080 | 250 | 189 | 233 | 192 | 136 | 300 | 38.8 | 3.5 | 2.1 | <0.10 | 7.42 | 25.2 |
| MIN | | 0.195 | 1.050 | 1.245 | 183 | 188 | 145 | 120 | 86 | 146 | 32.7 | 3.5 | 2.1 | <0.10 | 6.90 | 22.6 |
| AVG | | 0.281 | 1.373 | 1.654 | 210 | 151 | 205 | 148 | 111 | 226 | | | | | 7.07 | 24.3 |

| Date | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | C | 0 | 78 | 5,300 | 850 | 147 | 7.42 | 5.0 | 6,300 | 870 | 138 | 7.41 | 8.9 | 2.0 | 7.0 | 1.0 |
| 2 | C | 0 | 75 | 6,340 | 950 | 142 | 7.43 | 0.7 | 6,220 | 870 | 140 | 7.45 | 0.6 | 5.0 | 3.0 | 0.5 |
| 3 | C | 0 | 78 | 6,720 | 900 | 145 | 7.39 | 0.6 | 6,560 | 880 | 145 | 7.48 | 0.0 | 3.5 | 3.0 | 1.0 |
| 4 | O | 1.2 | 74 | 6,520 | 870 | 133 | 7.41 | 0.7 | 5,380 | 870 | 137 | 7.42 | 0.8 | 6.9 | 8.0 | 1.0 |
| 5 | C | 0 | 75 | 6,240 | 810 | 129 | 7.58 | 1.0 | 6,330 | 860 | 136 | 7.54 | 0.6 | 3.5 | 3.0 | 1.0 |
| 6 | C | 0 | 76 | 5,940 | 870 | 146 | 7.38 | 1.0 | 5,630 | 900 | 135 | 7.41 | 1.1 | 3.0 | 9.0 | 1.0 |
| 7 | C | 0 | 75 | 5,760 | 860 | 149 | 7.45 | 0.9 | 6,480 | 910 | 149 | 7.51 | 1.0 | 4.0 | 9.0 | 3.0 |
| 8 | C | 0 | 77 | 5,920 | 880 | 148 | 7.42 | 0.7 | 5,850 | 900 | 135 | 7.43 | 0.6 | 3.0 | 6.0 | 0.5 |
| 9 | O | 2.5 | 74 | 5,980 | 800 | 143 | 7.64 | 0.5 | 6,230 | 930 | 149 | 7.42 | 0.5 | 4.0 | 4.0 | 1.0 |
| 10 | O | 0 | 60 | 6,120 | 820 | 144 | 7.35 | 2.5 | 5,510 | 870 | 147 | 7.37 | 2.4 | 3.5 | 6.0 | 0.5 |
| 11 | C | 0 | 65 | 5,420 | 880 | 162 | 7.38 | 1.0 | 5,140 | 840 | 163 | 7.44 | 1.4 | 7.0 | 2.0 | 1.0 |
| 12 | C | 0 | 69 | 6,260 | 900 | 144 | 7.37 | 1.0 | 5,460 | 850 | 156 | 7.39 | 1.2 | 3.0 | 2.0 | 0.5 |
| 13 | C | 0 | 71 | 5,590 | 850 | 158 | 7.67 | 1.4 | 6,210 | 900 | 144 | 7.40 | 1.2 | 4.0 | 6.0 | 1.0 |
| 14 | O | 0 | 75 | 6,050 | 800 | 132 | 7.60 | 0.7 | 6,060 | 830 | 136 | 7.68 | 0.7 | 2.0 | 5.0 | 1.0 |
| 15 | O | 0 | 73 | 5,670 | 860 | 152 | 7.20 | 0.2 | 5,790 | 870 | 138 | 7.29 | 0.8 | 6.0 | 1.0 | 1.0 |
| 16 | R | 0 | 68 | 5,156 | 710 | 137 | 7.38 | 0.3 | 4,900 | 670 | 136 | 7.35 | 0.4 | 6.0 | 6.0 | 1.0 |
| 17 | O | 1.7 | 68 | 6,070 | 820 | 135 | 7.31 | 0.6 | 5,990 | 840 | 141 | 7.29 | 0.4 | 2.0 | 3.5 | 0.5 |
| 18 | PC | 1.0 | 65 | 5,796 | 850 | 147 | 7.23 | 1.9 | 5,170 | 900 | 146 | 7.18 | 1.1 | 5.0 | 1.0 | 0.5 |
| 19 | C | 0 | 64 | 5,370 | 860 | 147 | 7.26 | 1.2 | 5,360 | 880 | 157 | 7.21 | 3.1 | 3.0 | 3.0 | 0.5 |
| 20 | PC | 0 | 71 | 5,080 | 840 | 165 | 7.22 | 1.5 | 5,698 | 800 | 168 | 7.22 | 1.7 | 1.0 | 8.0 | 1.0 |
| 21 | C | 0 | 67 | 4,780 | 760 | 155 | 7.23 | 2.0 | 5,558 | 880 | 159 | 7.34 | 1.3 | 1.0 | 7.0 | 1.0 |
| 22 | C | 0 | 67 | 5,550 | 830 | 150 | 7.18 | 1.3 | 5,140 | 830 | 161 | 7.30 | 1.1 | 3.0 | 3.5 | 0.5 |
| 23 | C | 0 | 66 | 5,040 | 820 | 163 | 7.20 | 1.1 | 5,100 | 840 | 165 | 7.18 | 1.2 | 2.0 | 2.5 | 0.5 |
| 24 | C | 0 | 68 | 4,980 | 830 | 167 | 7.27 | 1.5 | 5,350 | 850 | 159 | 7.22 | 1.2 | 2.0 | 2.5 | 0.5 |
| 25 | C | 0 | 68 | 5,290 | 800 | 151 | 7.30 | 1.5 | 5,150 | 810 | 153 | 7.27 | 1.7 | 2.5 | 2.0 | 1.0 |
| 26 | C | 0 | 71 | 5,750 | 830 | 144 | 7.25 | 1.2 | 5,270 | 790 | 132 | 7.22 | 1.3 | 2.0 | 3.0 | 1.0 |
| 27 | C | 0 | 73 | 6,550 | 840 | 128 | 7.68 | 1.7 | 5,300 | 700 | 127 | 7.44 | 1.2 | 3.0 | 5.6 | 1.0 |
| 28 | C | 0 | 73 | 5,060 | 620 | 122 | 7.40 | 1.1 | 3,780 | 660 | 114 | 7.20 | 1.1 | 3.0 | 8.0 | 0.5 |
| 29 | C | 0 | 73 | 5,040 | 750 | 157 | 7.56 | 1.1 | 4,568 | 729 | 158 | 7.62 | 1.2 | 9.8 | 1.0 | 0.5 |
| 30 | C | 0.25 | 69 | 5,900 | 850 | 144 | 7.68 | 1.3 | 5,580 | 785 | 140 | 7.63 | 1.1 | 1.0 | 3.0 | 0.5 |
| 31 | C | 0 | 64 | 5,490 | 840 | 153 | 7.32 | 1.5 | 5,420 | 820 | 151 | 7.29 | 1.3 | 1.5 | 7.0 | 0.5 |
| TOTAL | | 6.75 | 2202 | 177,350 | 25,810 | 4,539 | 229 | 35.7 | 177,580 | 25,838 | 4,531 | 226 | 35.0 | 105.5 | 131.5 | 26 |
| MAX | | 2.6 | 78 | 6,720 | 950 | 167 | 7.88 | 2.5 | 6,660 | 930 | 168 | 7.68 | 2.6 | 9.8 | 9.0 | 1.0 |
| MIN | | 0 | 60 | 4,780 | 620 | 122 | 7.18 | 0.3 | 4,568 | 660 | 114 | 7.1 | 0.4 | 1.0 | 1.0 | 0.1 |
| AVG | | 0.22 | 71 | 5,721 | 833 | 146 | 7.50 | 1.2 | 5,718 | 833 | 146 | 7.34 | 1.1 | 1.4 | 4.2 | 0.5 |

| Date | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2,004 | 7.59 | | | 8.1 | | 25.7 | <20 | | | | | | | | 0.926 | 9,785 | | |
| 2 | 1,753 | 7.80 | | | 8.0 | | 26.2 | | | | | | | | | 0.876 | 10,260 | | |
| 3 | 1,689 | 7.97 | | | 6.9 | 0.13 | 25.5 | | | | | | | | | 0.916 | 10,305 | | |
| 4 | 2,098 | 7.74 | | | 7.0 | | 25.6 | | | | | | | | | 0.936 | 12,496 | 90,000 | 9,379 |
| 5 | 1,811 | 7.91 | 2.1 | 2.2 | 7.6 | | 26.3 | | | | | | | | | 0.777 | 10,420 | | |
| 6 | 2,082 | 7.54 | | | 8.1 | | 26.2 | | | | | | | | | 0.920 | 10,620 | | |
| 7 | 2,136 | 7.61 | | | 7.9 | | 26.3 | | | | | | | | | 0.935 | 12,025 | | |
| 8 | 1,988 | 7.69 | | | 8.1 | | 26.9 | <20 | | | | | | | | 0.99 | 10,810 | 90,000 | 8,114 |
| 9 | 2,472 | 7.68 | | | 8.1 | | 25.4 | | | | | | | | | 0.718 | 11,620 | | |
| 10 | 2,015 | 7.45 | | | 8.3 | | 25.6 | | | | | | | | | 0.703 | 11,595 | 90,000 | 8,703 |
| 11 | 1,707 | 7.59 | | | 8.4 | 0.24 | 24.7 | | | | | | | | | 0.454 | 11,120 | | |
| 12 | 1,854 | 7.88 | 1.6 | 9.8 | 8.3 | | 25.1 | | | | | | | | | 0.695 | 11,035 | | |
| 13 | 1,995 | 7.64 | | | 8.3 | | 24.1 | | | | | | | | | 0.828 | 10,755 | | |
| 14 | 2,058 | 7.96 | | | 8.3 | | 25.2 | | | | | | | | | 0.669 | 10,515 | | |
| 15 | 1,842 | 7.59 | | | 8.1 | | 24.1 | <20 | | | | | | | | 0.636 | 11,785 | 90,000 | 8,806 |
| 16 | 1,976 | 7.72 | | | 8.1 | | 23.9 | | | | | | | | | 0.726 | 10,560 | | |
| 17 | 3,574 | 7.65 | | | 8.5 | | 24.0 | | | | | | | | | 1.059 | 8,665 | | |
| 18 | 1,793 | 7.80 | | | 7.5 | 3.15 | 24.0 | | 0.96 | 3.4 | 0.53 | | | | | 0.529 | 10,075 | 90,000 | 12,066 |
| 19 | 1,695 | 7.40 | 2.5 | 1.8 | 8.5 | | 24.0 | | | | | | | | | 0.517 | 10,315 | | |
| 20 | 1,925 | 7.30 | | | 8.4 | | 23.9 | | | | | | | | | 0.584 | 8,760 | | |
| 21 | 2,030 | 7.26 | | | 8.4 | | 23.7 | | | | | | | | | 0.598 | 8,710 | | |
| 22 | 1,774 | 7.50 | | | 8.5 | | 24.1 | <20 | | | | | | | | 0.750 | 9,575 | | |
| 23 | 1,671 | 7.48 | | | 8.5 | | 24.5 | | | | | | | | | 0.748 | 9,780 | | |
| 24 | 1,645 | 7.74 | | | 8.5 | 0.06 | 24.5 | | | | | | | | | 0.534 | 10,395 | 45,000 | 3,901 |
| 25 | 1,585 | 7.44 | | | 8.5 | | 24.5 | | | | | | | | | 0.594 | 7,795 | | |
| 26 | 1,850 | 7.42 | 1.0 | 7.4 | 8.4 | | 23.0 | | | | | | | | | 0.829 | 10,360 | | |
| 27 | 2,013 | 7.88 | | | 8.3 | | 24.8 | | | | | | | | | 0.835 | 8,160 | | |
| 28 | 2,035 | 7.64 | | | 8.2 | | 25.2 | | | | | | | | | 0.673 | 8,740 | | |
| 29 | 1,027 | 7.93 | | | 8.2 | | 25.8 | <20 | | | | | | | | 0.681 | 8,915 | | |
| 30 | 1,591 | 7.99 | | | 8.3 | | 23.3 | | | | | | | | | 0.824 | 8,060 | | |
| 31 | 1,605 | 7.68 | | | 8.5 | 0.08 | 24.6 | | | | | | | | | 0.519 | 10,065 | 90,000 | 7,355 |
| TOTAL | 60,259 | 238 | 7.2 | 6.2 | 253 | 1.55 | 776 | <20 | 0.96 | 3.4 | 0.53 | 0 | 0 | 0 | 0 | 22.844 | 309,582 | 585,000 | 58,564 |
| MAX | 3,574 | 7.99 | 2.2 | 2.2 | 8.5 | 1.15 | 26.9 | <20 | 0.96 | 3.4 | 0.53 | 0 | 0 | 0 | 0 | 1.059 | 10,075 | 90,000 | 12,066 |
| MIN | 1,588 | 7.30 | 1.0 | 0.2 | 6.9 | 0.04 | 23.7 | <20 | 0.96 | 3.4 | 0.53 | 0 | 0 | 0 | 0 | 0.434 | 11,029 | 45,000 | 3,901 |
| AVG | 1,934 | 7.66 | 1.8 | 3.4 | 8.2 | 0.32 | 25.0 | 18.0 | 0.96 | 3.4 | 0.53 | 0.0 | 0.0 | 0.0 | 0.0 | 0.737 | 9,987 | 83,571 | 8,366 |

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

Approved by GH

Date 9/7/2022

Prepared by GH, JFH

# CAPITAL IMPROVEMENT ITEM DESCRIPTIONS
For Consideration
BUDGET YEAR 2023

| | | 4000/ER | Notes |
|---|---|---|---|
| 1. Replace aerator #1 gearbox | (estimated) | $75,000 | Carryover if not completed in 2022 |
| 2. Replace wooden doors w/ fiberglass doors, a couple per year if needed | (estimated) | $3,000 | Carryover |
| 3. Replacement flow meter for the Effluent, Lake Ozark, and RAS. | (estimated) | $25,000 | New |
| | Subtotal | $103,000 | |
| | | **4020** | |
| 4. Annual fee for Mission autodialer (software fee) | (estimated) | $500 | Annual Fee |
| 5. Regular Plant Maintenance, including any pump rebuilds if needed and the generator maintenace agreement & diesel | (estimated) | $20,000 | Annual Maint. |
| 6. UV Bulbs, Quartz Sleeves and Spare Parts | (estimated) | $10,000 | Annual Maint. |
| 7. Painting of RAS basement piping galary & room | (estimated) | $30,000 | New |
| 8. Sandblast & Paint Clarifier #3 | (estimated) | $30,000 | New |
| 9. Rock for the road. | (estimated) | $3,000 | Annual Maint. |
| 10. Take #2 Aeration Basin down, removal of grit by Contractor, repair or replace valves and all required lab testing on grit | (estimated) | $100,000 | Carryover |
| | Subtotal | $193,500 | |
| | | **4150** | |
| 11. Vehicle Maintenance | (estimated) | $8,000 | Annual Maint. |
| | Subtotal | $8,000 | |
| | Total | $304,500 | |

# JOINT SEWER BOARD
## BILL LIST
## AUGUST 16, 2022

| | | |
|---|---|---|
| OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING: | $ | 6,302.69 |
| OPERATING FUND BILLS TO BE PAID: | $ | 50,475.45 |
| EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING: | $ | - |
| EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID: | $ | 1,395.35 |
| TOTAL | $ | 58,173.49 |

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

| Account | Check | Paid To: | Description: | | Amount: |
|---|---|---|---|---|---|
| 4240 | 622 | USA Blue Book | Analog Stirrer | $ | 202.69 |
| 4020 | 624 | Ash/Ahart Concrete Const. | Concrete Steps | $ | 6,100.00 |
| | | | TOTAL | $ | 6,302.69 |

OPERATING FUND BILLS TO BE PAID:

| Account | Check | Paid To: | Description: | | Amount: |
|---|---|---|---|---|---|
| 4000 | 1001 | Equipment Replacement Fund | Payment into ER Fund | $ | 4,584.00 |
| 4020 | 1002 | Catalyst Electric | Bar Screen Controls Repair | $ | 211.25 |
| 4020 | 1003 | Charlton Paving & Slurryseal | Parking Lot Slurryseal | $ | 2,275.00 |
| 4020 | 1004 | JCI Industries, Inc. | Repair RAS Pump | $ | 2,300.00 |
| 4020 | 1005 | Majestic Franchising Inc. | August | $ | 197.15 |
| 4020 | 1006 | M/C QuickBooks | Accounting Software | $ | 25.00 |
| 4020 | 1006 | M/C Fastenco | Bolts for loading station | $ | 31.20 |
| 4020 | 1007 | Menards | Lab Refrigerator w/ice maker | $ | 1,060.99 |
| 4020 | 1007 | Menards | Cleaning & RAS Supplies | $ | 63.50 |
| 4020 | 1007 | Menards | Bolts & Nuts for RAS Pumps | $ | 20.31 |
| 4020 | 1007 | Menards | Sanding Wheel | $ | 4.49 |
| 4020 | 1007 | Menards | Safety Mat | $ | 139.88 |
| 4020 | 1007 | Menards | Refrigerator install parts | $ | 110.73 |
| 4020 | 1007 | Menards | Parking Lot Curbs | $ | 299.94 |
| 4020 | 1007 | Menards | Safety Mat | $ | 139.88 |
| 4020 | 1007 | Menards | Return - Safety Mat | $ | (69.94) |
| 4020 | 1007 | Menards | Hose End for Loading Station | $ | 69.23 |
| 4020 | 1008 | Milwaukee Rubber Products | Bearings for bar screens | $ | 43.60 |
| 4020 | 1009 | O'Reilly | Sludge Trk PTO Repair | $ | 561.00 |
| 4020 | 1010 | Crump Truck & Trailer | August | $ | 27,590.00 |
| 4150 | 1011 | Alliance Water Resources, Inc. | 11673321 | $ | 10,514.79 |
| 4170 | 1012 | Ameren MO | 98041275 | $ | 132.86 |
| 4175 | 1012 | Ameren MO | August | $ | 105.28 |
| 4175 | 1013 | AT&T | August | $ | 65.31 |
| 4176 | 1014 | Republic | TOTAL | $ | 50,475.45 |
| 4176 | | | | | |

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 | 1069 | USA Blue Book | Valve for Loading Station | $ | 297.91 |
| 4000 | 1069 | USA Blue Book | DO Probe | $ | 1,097.44 |
| | | | TOTAL | $ | 1,395.35 |

ASH/AHART CONCRETE CONSTRUCTION, LLC
1695 Hwy. 52, Tuscumbia, MO 65082
Phone: 573-369-3243 / 369-3323 Mobile: 573-375-1272 / 216-0429

CONCRETE CONSTRUCTION

RECEIVED JUL 19 2022

**INVOICE**
(For Billing Purposes Only)

Job Name: lake Ozark water treatment plant

Date: 7-18-22

Address:

Phone:

| DESCRIPTION OF JOB BID | CHANGES TO ORIGINAL BID |
|---|---|
| Set and pour steps and pads for access to back door.<br><br>STEPS GOING DOWN TO OUTFALL + PAD BY UV SYSTEM<br>GL Acct#: 4020<br>Signature: [signature]<br>Date: 7/19/22 | |

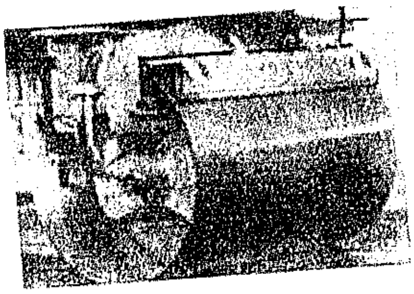
Estimated Cost: $

Changes: $

TOTAL AMOUNT DUE: $ 6,100

*Thank you for your Business*

INVOICE
INV0424



**Charlton Paving & SlurrySeal LLC**

Raymond Charlton
11596 Martin place
Hannibal Mo 63401
573-375-1022 or 573-822-9939
charltonpaving@yahoo.com

AUG 08 2022

DATE
Aug 2, 2022

DUE
On Receipt

BALANCE DUE
USD $2,275.00

BILL TO

**Joint Sewer Board / Gary Hutchcraft**

3 Anderson rd
Lake Ozark Mo 65049
573-365-0455 cell 573-216-8398
ghutchcraft@alliancewater.com

| DESCRIPTION | RATE | QTY | AMOUNT |
|---|---|---|---|
| **SlurrySeal**<br>Clean and prep parking area<br>Crackseal<br>SlurrySeal entire lot | $2,125.00 | 1 | $2,125.00 |
| Pin parking stoppers in place | $150.00 | 1 | $150.00 |

| | |
|---|---|
| TOTAL | $2,275.00 |
| BALANCE DUE | **USD $2,275.00** |

**Payment Info**

BY CHECK
Charlton Paving

PARKING LOT SLURRYSEAL

GL Acct#: 4020

Signature: Gary Hutchcraft

Date: 8/8/22

# INVOICE

| INVOICE | |
|---|---|
| 8236570 | |
| Invoice Date | Page |
| 07/20/2022 | 1 of 1 |
| ORDER NUMBER | |
| 1211962 | |

**Remit To:**

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

**Branch** 06 JEFFERSON CITY

**Bill To:**
LAKE OZARK/OSAGE BEACH JOINT SEWER BC
PO BOX 1985
LAKE OZARK, MO 65049

**Ship To:**
ALLIANCE WATER RESOURCES
#3 ANDERSON ROAD
LAKE OZARK, MO 65049

RECEIVED
JUL 25 2022

**Customer ID:** 400263

| *PO Number* | *Term Description* | *Net Due Date* |
|---|---|---|
| GARY HUTCHCRAFT-15 | Net 30 | 8/19/2022 |

| *Order Date* | *Pick Ticket No.* | *Primary Salesrep Name* | *Order Taker* |
|---|---|---|---|
| 6/1/2022 15:50:30 | 3226083 | Ben Reinkemeyer JI | HHASKELL |

| *Quantities* Ordered | Shipped | Remaining | UOM Unit Size | Disp | Item ID / Item Description | Pricing UOM / Unit Size | Unit Price | Extended Price |
|---|---|---|---|---|---|---|---|---|
| 1.00 | 1.00 | 0.00 | EA 1.0 | | P FAIRBANKS 06-01-22<br>FAIRBANKS PUMP | EA<br>1.0000 | 2,300.00 | 2,300.00 |

*Total Lines:* 1

| | |
|---|---|
| ***SUB-TOTAL:*** | 2,300.00 |
| ***TAX:*** | 0.00 |
| ***AMOUNT DUE:*** | **2,300.00** |

*Carrier:* JCI TO DELIVER *Tracking #:*

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

REPAIR RAS PUMP

GL Acct#: 4020

Signature: [signature]

Date: 7/25/22

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

*ORIGINAL*

12.11.911, 11/19/2012

**************
* GUEST COPY *
**************

RECEIVED
AUG 01 2022

JOINT SEWER BOARD
PO BOX 1985
#3 ANDERSON RD
LAKE OZARK MO 65049
FAX # (573)

MENARDS - LAKE OZARK
1015 Barred Owl Lane
Lake Ozark, MO 65049

INVOICE # 30688 ACCOUNT : 32880271

TRANSACTION DATE : 06/08/22
TRANSACTION TIME : 100629
REGISTER NUMBER : 10
SIGNER : gary hutchraft

TRANSACTION # : 296
PURCHASE ORDER # : Gary
TYPE OF SALE : Charge Sale
CLAIM # : Gary

| QUANTITY | SKU | DESCRIPTION | AMOUNT |
|---|---|---|---|
| 1.00 | | DELIVERY | 20.00 |
| 1.00 | | DELIVERY | 3.00 |
| 1.00 | | DELIVERY | 89.00 |
| 1.00 | 4538062 | REFRIG 18.7CF BTM WHT | 849.00 |
| 1.00 | 4534540 | CRITERION ICE MAKER | 99.99 |
| 1.00 | | DELIVERY | 0.00 |

SUB-TOTAL: 1,060.99
TOTAL TAX: 0.00
PAYMENTS : 0.00
==========
TOTAL DUE: 1,060.99

NEW LAB REFRIGERATOR

GL Acct#: E/R
Signature: Gary Hutchraft
Date: 8/1/22

Ameren MISSOURI

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- Pay by mail: PO Box 88068, Chicago, IL 60680-1068
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- Customer Service: 1.877.426.3736

FOCUSED ENERGY. For life.

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

**Current Detail for Statement 08/09/2022**

| | |
|---|---|
| Total Electric Charges | $10,514.79 |
| **Total Amount Due** | **$10,514.79** |

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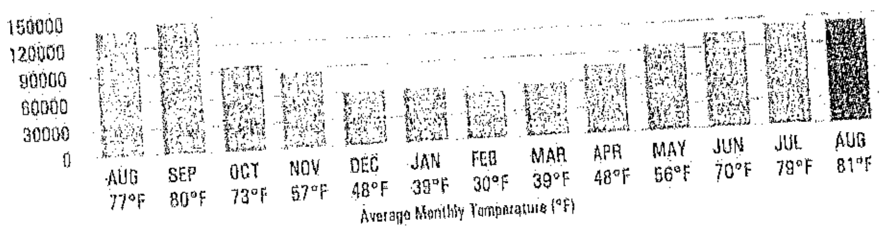
| | |
|---|---|
| **AMOUNT DUE** | **$10,514.79** |
| **Due Date** | **08/30/2022** |
| Amount After Due Date | $10,619.94 |
| Previous Statement | $10,717.98 |
| Total Payments | $10,717.98 |

*Payment Received. Thank You.*

**Electric Usage History**

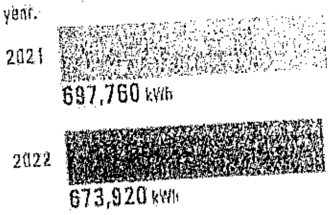
Electric Usage in Kilowatt Hours (kWh)




Average Monthly Temperature (°F)

Electric Usage Summary (kWh)

So far this year, you're using 3.4% less than last year.




Usage from Jan-Aug for 2021 & 2022

13073 00548 2109801 0003 092139 0001/0002

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

GL Acct#: 4175

Signature: [signature]

Date: 8/9/22

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» See next page for service details.

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| Amount Due | Due Date |
|---|---|
| $10,514.79 | August 30, 2022 |
| **Delinquent Amount After Due Date** | **Account Number** |
| $10,619.94 | 4580005832 |

Amount Enclosed $ ____________

>000548 2109801 0003 092139 10Z

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

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

60600000 0045800058302 000010514790 000010514790

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**Electric Service Details** — Service from 07/07/2022 - 08/07/2022 (31 days)

Electric Meter Read

| METER NUMBER | SERVICE FROM - TO | NO. DAYS | USAGE TYPE | READING TYPE | CURRENT READING | PREVIOUS READING | READING DIFFERENCE | MULTIPLIER | USAGE |
|---|---|---|---|---|---|---|---|---|---|
| 11673321 | 07/07 - 08/07 | 31 | Total kWh | Actual | 74686.0000 | 73982.0000 | 704.0000 | 160.0000 | 112640.0000 |
| 11673321 | 07/07 - 08/07 | 31 | Peak kW | Actual | 1.3390 | 0.0000 | 1.3390 | 160.0000 | 214.2400 |

Usage Summary

| | | | |
|---|---|---|---|
| Total kWh | 112640.0000 | Summer kWh | 112640.0000 |
| Peak kW | 214.2000 | Billing Demand | 214.2000 |
| Total Billing Demand | 214.2000 | October Winter Base kW | 162.4000 |
| Winter Base Demand | 162.4000 | Base kWh Ratio | 0.7581 |
| 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 | @ | $ 0.03870000 | $0.00 |
| Summer Demand Charge | 214.20 | kW | @ | $ 5.87000000 | $1,257.35 |
| Winter Demand Charge | 214.20 | kW | @ | $ 0.00000000 | $0.00 |
| Energy Charge/Hours Used | 32,130.00 | kWh | @ | $ 0.10540000 | $3,386.50 |
| Energy Charge/Hours Used | 42,840.00 | kWh | @ | $ 0.07930000 | $3,397.21 |
| Energy Charge/Hours Used | 37,670.00 | kWh | @ | $ 0.05340000 | $2,011.58 |
| Base Energy Charge / Hours Used | 0.00 | kWh | @ | $ 0.06620000 | $0.00 |
| Customer Charge | | | | | $104.86 |
| Fuel Adjustment Charge | 112,640.00 | kWh | @ | $ 0.00041000 | $46.18 |
| Energy Efficiency Investment Charge | 112,640.00 | kWh | @ | $ 0.00326200 | $367.43 |
| Renewable Energy Adjustment | 112,640.00 | kWh | @ | $-0.00050000 | $-56.32 |
| | | | | Total Service Amount | $10,514.79 |
| | | | | **Total Electric Charges** | **$10,514.79** |



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

Address Changes or Corrections

Name ____________________

Address ____________________

City, State, Zip ____________________

Phone Number ____________________

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

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

| | |
|---|---|
| **AMOUNT DUE** | **$132.86** |
| **Due Date** | **08/30/2022** |
| Amount After Due Date | $134.19 |
| Previous Statement | $240.35 |
| Total Payments | $240.35 |

*Payment Received. Thank You.*

**Current Detail for Statement 08/09/2022**

| | |
|---|---|
| Total Electric Charges | $132.86 |
| **Total Amount Due** | **$132.86** |

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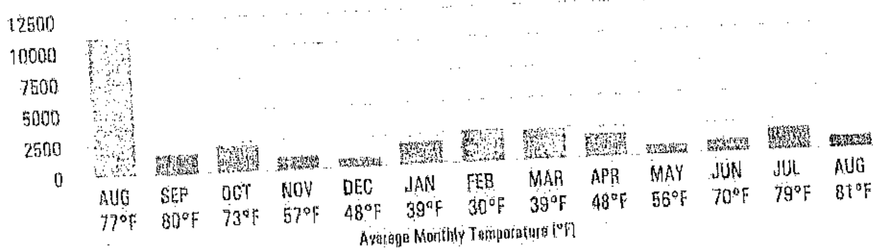
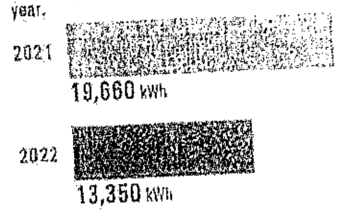
**Electric Usage History**

Electric Usage in Kilowatt Hours (kWh)




Electric Usage Summary (kWh)

So far this year, you're using 32.1% less than last year.




Usage from Jan-Aug for 2021 & 2022

13073
00549 2109801 000308 001811 0001/0002

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GL Acct#: 4175
Signature: [signature]
Date: 8/9/22

Keep this portion for your records.



» See next page for service details.

Please return this portion with your payment.

Ameren MISSOURI

☐ Check if you have address changes on back.

| Amount Due | Due Date |
|---|---|
| $132.86 | August 30, 2022 |
| **Delinquent Amount After Due Date** | **Account Number** |
| $134.19 | 5580005920 |

Amount Enclosed $ ____________

>000549 2109801 0003 092139 10Z

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

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

70633000 0055800059200 000000132860 000000132860

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- Customer Service: 1.877.426.3736

FOCUSED ENERGY. For life.

**Electric Service Details** — Service from 07/07/2022 - 08/07/2022 (31 days)

Electric Meter Read

| METER NUMBER | SERVICE FROM - TO | NO. DAYS | USAGE TYPE | READING TYPE | CURRENT READING | PREVIOUS READING | READING DIFFERENCE | MULTIPLIER | USAGE |
|---|---|---|---|---|---|---|---|---|---|
| 98041275 | 07/07 - 08/07 | 31 | Total kWh | Actual | 24955.0000 | 24860.0000 | 95.0000 | 10.0000 | 950.0000 |
| 98041275 | 07/07 - 08/07 | 31 | Peak kW | Actual | 4.4460 | 0.0000 | 4.4460 | 10.0000 | 44.4600 |

Usage Summary

| | | | |
|---|---|---|---|
| Total kWh | 950.0000 | Summer kWh | 950.0000 |
| Winter Base kWh | 1830.0000 | Current Base kWh | 950.0000 |
| Summer Cur Base kWh | 950.0000 | 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 | 950.00 | kWh | @ | $ 0.11350000 | $107.83 |
| Base Energy Charge | 0.00 | kWh | @ | $ 0.08480000 | $0.00 |
| Seasonal Energy Charge | 0.00 | kWh | @ | $ 0.04880000 | $0.00 |
| Customer Charge | | | | | $21.86 |
| Fuel Adjustment Charge | 950.00 | kWh | @ | $ 0.00041000 | $0.39 |
| Energy Efficiency Investment Charge | 950.00 | kWh | @ | $ 0.00343000 | $3.26 |
| Renewable Energy Adjustment | 950.00 | kWh | @ | $-0.00050000 | $-0.48 |
| | | | | Total Service Amount | $132.86 |
| | | | | **Total Electric Charges** | **$132.86** |

**Payments Since Previous Statement**

| DATE RECEIVED | AMOUNT |
|---|---|
| July 22, 2022 | $240.35 |



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

Address Changes or Corrections

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

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- PHONE 866.268.3729
- MAIL STUB & CHECK
- IN PERSON FIND A PAY STATION AT AMERENMISSOURI.COM/PAYSTATION

USABlueBook
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# INVOICE

| INVOICE NO. | PAGE NO. |
|---|---|
| 066482 | 1 of 1 |
| CUSTOMER NO. | DATE |
| 1053309 | 08/03/22 |

Remit To:
P.O. Box 9004
Gurnee, IL 60031-9004
TEL: (847) 689-3000
FAX: (847) 689-3001
TOLL FREE: 1-800-493-9876
F.E.I.N.: 52-2418852

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View online at: http://usabluebook.billtrust.com
Web Enrollment Token: GVZ KZT BWR

SHIP TO: 1

BILL TO: 1053309
122 1 SP 0.530 E0122X I0198 D9488724618 S2 P9184356 0001:0001

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

JOINT SEWER BOARD LAKE
OZARK-OSAGE BEACH
3 ANDERSON RD
LAKE OZARK MO 65049
USA

Attention: GARY HUTCHCRAFT

Ordered by: 0001 GARY HUTCHCRAFT

| CUSTOMER P.O. NO. | SHIP DATE | SLP | TERMS | TAX CODE | SALES ORDER NO. | W/H | FREIGHT | SHIP VIA |
|---|---|---|---|---|---|---|---|---|
| VERBAL GARY | 08/03/22 | CJC | NET 30 | MOEXEMPT | 390121 | 01 | FXD/PPD | FEDEXGRND |

| USA STOCK NO. | DESCRIPTION | ORDERED | SHIPPED | BACKORDER | U/M | PRICE | PER | EXTENSION |
|---|---|---|---|---|---|---|---|---|
| 65727 | Hach IntelliCal Rugged LDO Probe 5 M Cable LDO10105 | 1 | 1 | 0 | EA | 970.00 | EA | 970.00 |
| HACHSURCHA | Hach Surcharge | 1 | 1 | | EA | 116.40 | EA | 116.40 |

REPLACEMENT DO PROBE

GL Acct#: E/R
Signature: Gary Hutchcraft
Date: 8/9/22

| MERCHANDISE | MISCELLANEOUS | DISCOUNT | TAX | FREIGHT | TOTAL |
|---|---|---|---|---|---|
| 970.00 | 116.40 | 0.00 | 0.00 | 11.04 | 1,097.44 |

THANK YOU for your business!
1.5% MONTHLY FINANCE CHARGE
ON AMOUNTS 30 DAYS PAST DUE
Discounts Apply to Merchandise Only

Should it become necessary to refer your unpaid balance to a collection agency, a collection fee, not to exceed 25% of the balance referred; plus reasonable attorney's fees; and court costs when necessary, will be added to the balance due.

Please Detach and Return Bottom Portion to Ensure Proper Credit to Your Account

USABlueBook
Get the Best Treatment™

****IMPORTANT****
Please include this customer # on the face of your remittance check.

| INVOICE NO. | CUSTOMER NO. | DATE | TOTAL |
|---|---|---|---|
| 066482 | 1053309 | 08/03/22 | 1,097.44 |

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

REMITTANCE ADDRESS
USABlueBook
P.O. Box 9004
Gurnee, IL 60031-9004

# MONTH-TO-DATE AND YEAR-TO-DATE
# REVENUE/BUDGET ANALYSIS
# 7/31/2022

| Account Number | Account Name | 2020 Actual | 2021 Actual | 2022 Budget | 2022 Actual as of 7/31/2022 | 2022 July Revenue | Percent YTD |
|---|---|---|---|---|---|---|---|
| 3020 | Osage Beach | 475,836.10 | 465,202.63 | 470,050.00 | 266,831.44 | 38,107.60 | 57% |
| 3010 | Lake Ozark | 74,163.90 | 84,797.35 | 82,950.00 | 55,251.87 | 7,975.73 | 67% |
| 3030 | Misc. | 4,500.00 | 22,000.00 | 0.00 | 0.00 | 0.00 | 0% |
| 3100 | Interest | 4,019.49 | 2,700.22 | 2,500.00 | 978.27 | 245.68 | 39% |
| 3060 | Waste Haulers' Fee | 39,320.00 | 60,520.00 | 56,000.00 | 22,090.00 | 3,790.00 | 39% |
| | Total Operating Fund | 597,839.49 | 635,220.20 | 611,500.00 | 345,151.58 | 50,119.01 | 56% |
| | E/R Fund Income | 8,955.85 | 5,508.47 | 5,000.00 | 1,681.83 | 288.81 | 34% |
| | **TOTAL INCOME** | 606,795.34 | 640,728.67 | 616,500.00 | 346,833.41 | 50,407.82 | 56% |

**MONTH-TO-DATE AND YEAR-TO-DATE**
**EXPENDITURE/BUDGET ANALYSIS**
**7/31/2022**

| Account Number | Account Name | 2020 Actual | 2021 Actual | 2022 Budget | 2022 Actual as of 7/31/2022 | 2022 July Expenses | Percent YTD |
|---|---|---|---|---|---|---|---|
| 4000 | Equipment Replace Fund | 71,604.00 | 143,608.00 | 55,000.00 | 32,088.00 | 4,584.00 | 58% |
| 4020 | *Maintenance & Repair | 26,299.39 | 104,853.81 | 142,000.00 | 33,238.38 | 9,201.96 | 23% |
| 4140 | Insurance | 19,865.00 | 21,493.00 | 22,000.00 | 22,088.00 | 0.00 | 100% |
| 4150 | Vehicle Repair/Main | 12,479.74 | 11,099.99 | 8,000.00 | 5,388.59 | 1,599.33 | 67% |
| 4170 | Contract Management | 305,580.00 | 308,640.00 | 327,158.00 | 193,130.00 | 27,590.00 | 59% |
| 4175 | Electric | 75,077.36 | 82,227.41 | 92,000.00 | 40,422.24 | 10,958.33 | 44% |
| 4176 | Utilities Misc. | 2,485.59 | 3,528.17 | 3,750.00 | 2,383.64 | 79.69 | 64% |
| 4190 | Bank Charges | 32.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0% |
| 4200 | Audit | 2,648.50 | 2,600.00 | 2,700.00 | 2,700.00 | 0.00 | 100% |
| 4240 | Capital Purchases | 0.00 | 399.99 | 500.00 | 0.00 | 0.00 | 0% |
| | Totals | 516,072.18 | 678,450.37 | 653,108.00 | 331,438.85 | 54,013.31 | 51% |
| | **E/R Expenses | 85,258.27 | 202,161.70 | 59,500.00 | 3,318.20 | 0.00 | 6% |
| | **TOTAL EXPENSES** | 601,330.45 | 880,612.07 | 712,608.00 | 334,757.05 | 54,013.31 | 47% |

**4020 DETAIL: Equip & Bldg. Repair/Main.**

| | | |
|---|---|---|
| Auto Dialer Yrly Software Fee | 500 | Tier 1 |
| Regular Maintenance | 18,000 | Tier 1 |
| UV Bulbs, Quartz Sleeves, Misc | 10,000 | Tier 1 |
| Concrete Steps to outfall | 9,000 | Tier 1 |
| Rock for road | 2,000 | Tier 1 |
| Parking Lot seamseal & sealcoa | 2,500 | Tier 1 |
| Take #2 Aeration Basin, grit ren | 100,000 | Tier 2 |
| | **142,000.00** | |

**DETAIL: Equipment & Replacement**

| | | |
|---|---|---|
| Replace garage door in headworl | 3,500 | Tier 1 X |
| Replace wooden doors w/fibergla | 2,000 | Tier 1 |
| Replace lab refrigerator/freezer | 3,500 | Tier 1 |
| Replacement 6" valve for sludge | 500 | Tier 1 |
| Replace Light Fixtures in headwc | 5,000 | Tier 1 |
| *Replace aerator gear box - new | 45,000 | Tier 1 |
| | **59,500.00** | |

*Zeller Technologies, $74,900, est completion 2023

## OPERATING FUND INCOME AND EXPENSE SUMMARY
## 7/31/2022

| | |
|---|---|
| Beginning Balance | **317,666.61** |
| Income - Osage Beach | 38,107.60 |
| Income - Lake Ozark | 7,975.73 |
| Income - Other | - |
| Income - Waste Haulers' Fees | 2,820.00 |
| Interest - Checking | 4.83 |
| Income - CD Interest | 240.85 |
| Transfers From E/R Fund | - |
| Transfers To E/R Fund | (4,584.00) |
| Expenses | (49,128.70) |
| Ending Fund Balance | **313,102.92** |
| Central Bank - NOW Acct. | 91,865.70 |
| | - |
| CD First Bank of the Lake, 8/20/22 #8432 | 107,343.42 |
| CD First Bank of the Lake, 7/22/22 #8433 | 113,893.80 |
| | - |
| Outstanding Checks: | - |
| | **313,102.92** |

## EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
## 7/31/2022

| | |
|---|---|
| Beginning Balance | **505,015.55** |
| Interest - Checking | 110.74 |
| Income - CD Interest | 178.07 |
| Transfers From Operating Fund | 4,584.00 |
| Income - Miscellaneous | - |
| Expenses | - |
| Ending Fund Balance | **509,888.36** |
| First Bank of the Lake - Money Mkt. | 129,828.51 |
| CD First Bank of the Lake, 10/31/22 #8430 | 110,059.85 |
| CD First Bank of the Lake, 11/07/23 #8434 | 270,000.00 |
| | - |
| | - |
| Outstanding Checks: | - |
| | **509,888.36** |

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Professional Water and Wastewater Operations

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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 July 2022**

Submitted by Alliance Water Resources, Inc. for the

August 2022

Joint Sewer Board Meeting

## SUMMARY OF FACILITY OPERATION

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

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

## PLANT EFFLUENT QUALITY

| | BOD mg/l | TSS mg/l | pH | E.coli Coliform Colonies/100 ml | Ammonia as N mg/L | O&G mg/L |
|---|---|---|---|---|---|---|
| Monthly/Quarterly Avg | 1.9 | 1.6 | N/A | 10.0 | 0.44 | < 4.9 |
| Peak Day | 2.6 | 2.3 | 8.1 | < 20 | 1.35 | < 4.9 |
| Percent Removal | 99.1 | 99.4 | N/A | N/A | N/A | N/A |

## NPDES EFFLUENT LIMITATIONS

| | BOD mg/l | TSS mg/l | pH | E.coli Coliform Colonies/100 ml | Ammonia as N mg/L | O&G mg/L |
|---|---|---|---|---|---|---|
| Monthly/Quarterly Avg | 30 | 30 | 6-9 | 126 | 1.5 | 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 1.752 MGD or 58% of Permitted flow with Lake Ozark contributing 16% of the total flow and Osage Beach contributing 84%. 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 95950 pounds of BOD.

## BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 80 tanker loads of bio-solids during the month equivalent to a total of 288,000 gallons and 88,961 pounds dry weight solids.

274,150 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 427,500 gallons with a level of 7.0 feet in Tank 1 and 2.5 feet in Tank 2.

## WASTEHAULERS

The plant received 33 loads of septage during the month totaling 68,500 gallons.

## WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.

## WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Antero Maintenance Data Management schedule. (New version of Operator 10 Software)
- We had a flat on one of the front tires of the sludge truck on the 5th of July and it was not fixable, so they had to order a new tire. They came back on the 6th with the new tire and while they were here fixed a leak in one of the back tires.
- We changed the V-belt on the exhaust fan for the RAS basement on the 9th of July.
- The concrete contractor was here on the 15th of July to set up the forms for the steps going down to the outfall and the pad for the UV drying bed. They came back on the 18th and poured concrete and took the forms off later that morning to complete the project.
- The sludge trucks PTO wouldn't engage on the 19th, so we called the outfitter of the truck, Crump Truck & Trailer Works and they sent a Tech up that day and got us back going. We had to pay the labor and travel mileage cost.
- We received the RAS flow meter back from the factory on the 19th of July which was repaired under customer good will and the meter is working properly now.
- The portable Hach DO meter started acting up on the 20th of July, so we called Hach technical support and was told that the probe needed replaced. I contacted Matt & Kevin and was given the okay to go ahead with the purchase. I contacted three vendors and USA Bluebook had the lowest bid, so we went ahead and ordered it and received it on the 5th of August.
- We replaced another sheer pin on one of the bar screens on 25th of July.

## SAFETY

- We conducted our monthly Safety Meeting on Excavation & Trenching, Sewage/Wastewater/Water Line Maintenance & Excavation Competent Person: Excavation Hazard on the 21st of July.

## REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the new EDMR on the EPA MoGEM website on the 4th of August.
- We received the results for our Annual WET test on the 7th of July and everything passed which is excellent.

## MISCELLANEOUS AND RECOMMENDATIONS

- We invited three vendors to bid on the handrailing for the new steps going down to the outfall and received three bids back. (See attached bid sheet)

- We had our bid opening for the Aeration Gear Box Replacement project on the 20th of May. At the May Joint Sewer Board meeting the Board gave us the authority to accept and proceed on a bid that didn't exceed $75,000, without a vote from the Board. I contacted Matt & Kevin that day concerning the bids and they both agreed to award Zeller Technologies the contract for $74,900.00. I emailed Zeller Technologies a purchase order on the 25th of May. They have since came in with the design drawings and have everything finalized with a tentative installation of December of this year.

WATER RESOURCES
Alliance
Professional Water and Wastewater Operations

**Bids for Fabrication & Installation of Handrailing for Steps going down to Outfall**

| Bidder | Budgeted Amount | Total Bid | Material is Welded Painted Steel |
|---|---|---|---|
| | | | 36" 2"x 2" Square Post w/ pyramid tops |
| B & K Ornamental Iron | $2,900.00 | $5,495.00 | w/one round 1 1/2" sch 40 single top grip bar |
| | | | " |
| Edge Rail & Screen | " | $3,114.58 | |
| | | | " |
| American Sun Control | " | $2,819.00 | |
| | | | |

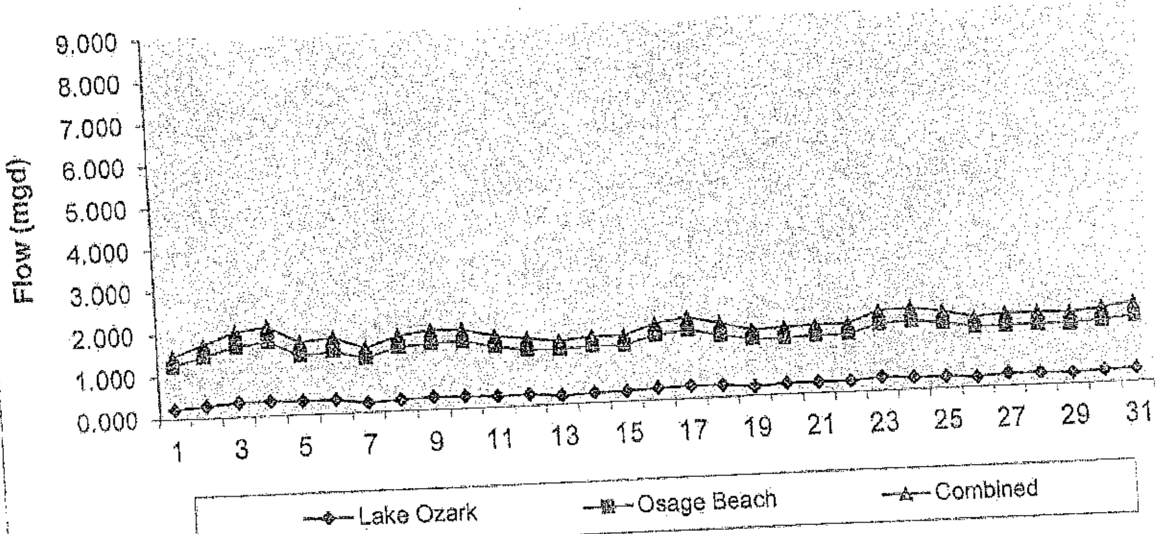
# TABLE A
# LAKE OZARK/OSAGE BEACH WWTP

**MONTH OF July 2022**

| 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-Jul | 0 | 0.229 | 1.252 | 1.481 | 15.5 | 84.5 | 358 | 258 | 215 | 258 | 226 | 290 |
| **2-Jul** | **0** | **0.280** | **1.465** | **1.745** | **16.0** | **84.0** | | | | | | |
| **3-Jul** | **0** | **0.348** | **1.675** | **2.023** | **17.2** | **82.8** | | | | | | |
| 4-Jul | 0 | 0.348 | 1.773 | 2.121 | 16.4 | 83.6 | | | | | | |
| 5-Jul | 0 | 0.325 | 1.406 | 1.731 | 18.8 | 81.2 | | | | | | |
| 6-Jul | 0 | 0.326 | 1.484 | 1.810 | 18.0 | 82.0 | | | | | | |
| 7-Jul | 0 | 0.231 | 1.303 | 1.534 | 15.1 | 84.9 | | | | | | |
| 8-Jul | 0.8 | 0.274 | 1.528 | 1.802 | 15.2 | 84.8 | 415 | 212 | 210 | 418 | 172 | 276 |
| **9-Jul** | **0** | **0.304** | **1.596** | **1.900** | **16.0** | **84.0** | | | | | | |
| **10-Jul** | **0** | **0.284** | **1.606** | **1.890** | **15.0** | **85.0** | | | | | | |
| 11-Jul | 0 | 0.262 | 1.445 | 1.707 | 15.3 | 84.7 | | | | | | |
| 12-Jul | 0 | 0.275 | 1.335 | 1.610 | 17.1 | 82.9 | | | | | | |
| 13-Jul | 0 | 0.205 | 1.317 | 1.522 | 13.5 | 86.5 | | | | | | |
| 14-Jul | 0 | 0.238 | 1.359 | 1.597 | 14.9 | 85.1 | | | | | | |
| 15-Jul | 0 | 0.238 | 1.343 | 1.581 | 15.1 | 84.9 | 408 | 183 | 213 | 342 | 178 | 246 |
| **16-Jul** | **0** | **0.278** | **1.552** | **1.830** | **15.2** | **84.8** | | | | | | |
| **17-Jul** | **0** | **0.299** | **1.636** | **1.935** | **15.5** | **84.5** | | | | | | |
| 18-Jul | 0 | 0.296 | 1.490 | 1.786 | 16.6 | 83.4 | | | | | | |
| 19-Jul | 0 | 0.215 | 1.364 | 1.579 | 13.6 | 86.4 | | | | | | |
| 20-Jul | 0 | 0.261 | 1.351 | 1.612 | 16.2 | 83.8 | | | | | | |
| 21-Jul | 0 | 0.255 | 1.377 | 1.632 | 15.6 | 84.4 | | | | | | |
| 22-Jul | 0 | 0.261 | 1.379 | 1.640 | 15.9 | 84.1 | 268 | 160 | 183 | 228 | 128 | 212 |
| **23-Jul** | **0** | **0.313** | **1.592** | **1.905** | **16.4** | **83.6** | | | | | | |
| **24-Jul** | **0** | **0.290** | **1.649** | **1.939** | **15.0** | **85.0** | | | | | | |
| 25-Jul | 0.5 | 0.277 | 1.573 | 1.850 | 15.0 | 85.0 | | | | | | |
| 26-Jul | 0.2 | 0.234 | 1.450 | 1.684 | 13.9 | 86.1 | | | | | | |
| 27-Jul | 0.7 | 0.297 | 1.440 | 1.737 | 17.1 | 82.9 | | | | | | |
| 28-Jul | 0 | 0.285 | 1.462 | 1.747 | 16.3 | 83.7 | | | | | | |
| 29-Jul | 0 | 0.261 | 1.450 | 1.711 | 15.3 | 84.7 | 263 | 193 | 238 | 254 | 162 | 278 |
| **30-Jul** | **0** | **0.291** | **1.497** | **1.788** | **16.3** | **83.7** | | | | | | |
| **31-Jul** | **0** | **0.311** | **1.579** | **1.890** | **16.5** | **83.5** | | | | | | |
| | | | | | | | | | | | | |
| SUM | 2.6 | 8.591 | 45.728 | 54.319 | | | | | | | | |
| | | | | | | | | | | | | |
| AVG | | 0.277 | 1.475 | 1.752 | 16 | 84 | 342 | 201 | 212 | 300 | 173 | 260 |

NOTE: BOLD PRINT INDICATES WEEKEND DAYS

Daily Flow
Figure 1




Effect of Rainfall on Flow
Figure 2

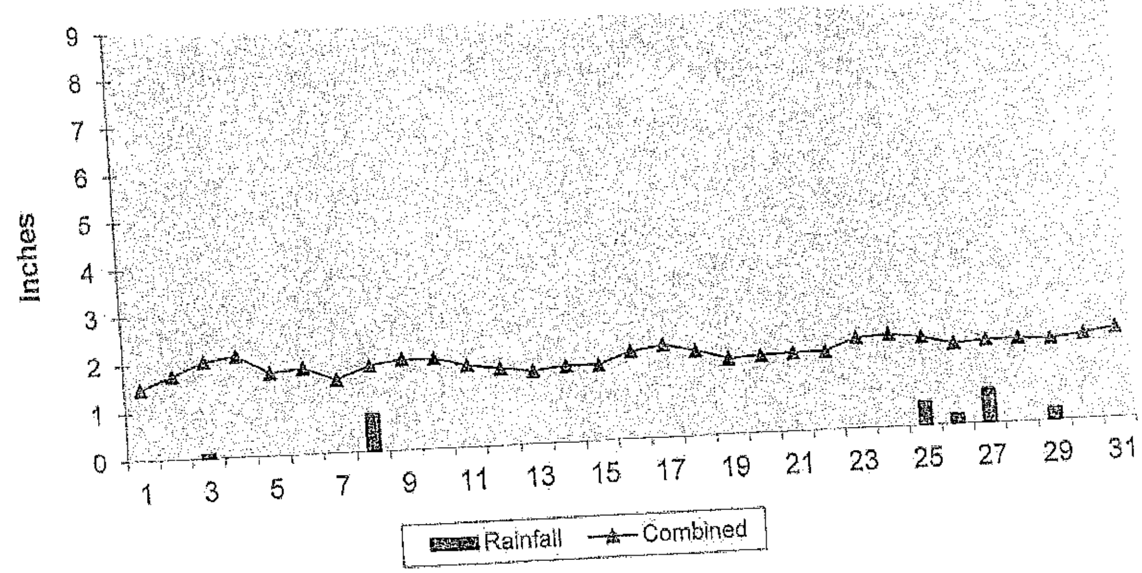


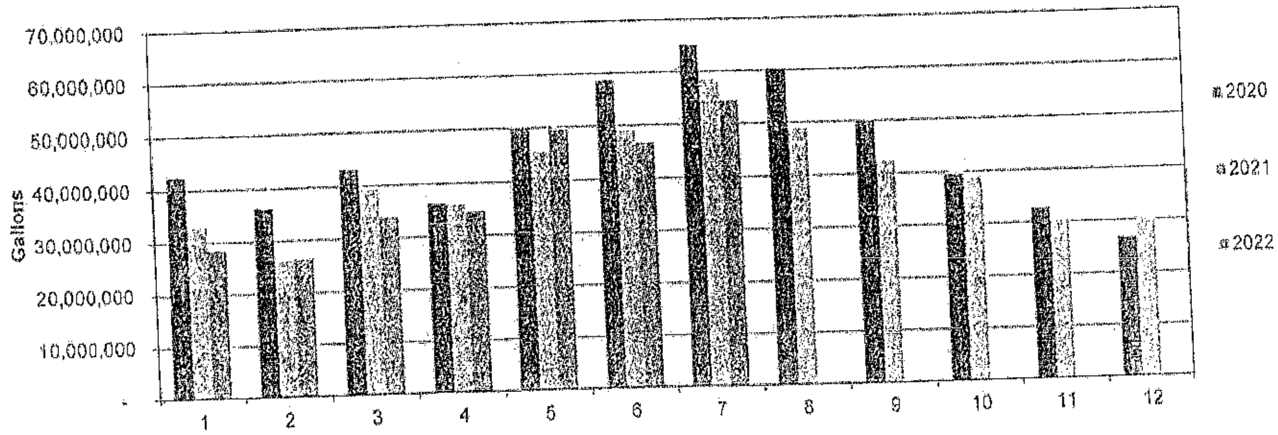
TABLE B
JOINT SEWER BOARD
Monthly Flows

| 2020 | RAINFALL | OSAGE BEACH | | LAKE OZARK | | TOTAL | % |
|---|---|---|---|---|---|---|---|
| January | 7.7 | 36,806,000 | 86% | 5,780,000 | 14% | 42,586,000 | 100% |
| February | 3.6 | 31,279,000 | 86% | 4,986,000 | 14% | 36,265,000 | 100% |
| March | 6.1 | 37,286,000 | 86% | 5,888,000 | 14% | 43,174,000 | 100% |
| April | 5.2 | 31,967,000 | 88% | 4,324,000 | 12% | 36,291,000 | 100% |
| May | 5.3 | 43,538,000 | 87% | 6,443,000 | 13% | 49,981,000 | 100% |
| June | 4.8 | 50,936,000 | 87% | 7,780,000 | 13% | 58,716,000 | 100% |
| July | 6.9 | 56,437,000 | 87% | 8,616,000 | 13% | 65,053,000 | 100% |
| August | 2.3 | 52,449,000 | 87% | 7,883,000 | 13% | 60,332,000 | 100% |
| September | 8.4 | 42,235,000 | 85% | 7,636,000 | 15% | 49,871,000 | 100% |
| October | 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% |

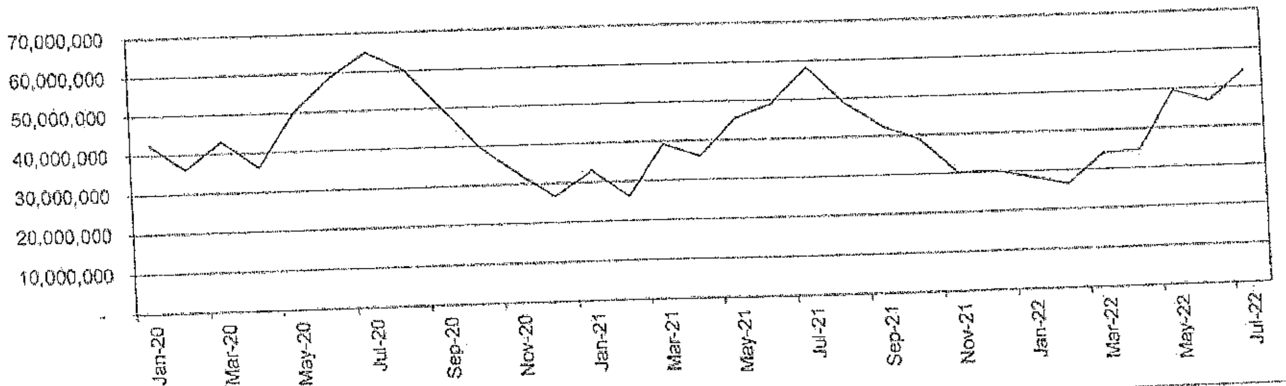
| 2021 | RAINFALL | OSAGE BEACH | | LAKE OZARK | | TOTAL | % |
|---|---|---|---|---|---|---|---|
| January | 6.0 | 28,107,000 | 85% | 4,855,000 | 15% | 32,962,000 | 100% |
| February | 3.0 | 22,136,000 | 85% | 4,048,000 | 15% | 26,184,000 | 100% |
| March | 4.0 | 32,848,000 | 84% | 6,450,000 | 16% | 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 | 6.0 | 32,925,000 | 85% | 5,987,000 | 15% | 38,912,000 | 100% |
| November | 0.8 | 25,192,000 | 83% | 5,025,000 | 17% | 30,217,000 | 100% |
| December | 2.3 | 25,041,000 | 82% | 5,317,000 | 18% | 30,358,000 | 100% |
| | 52.2 | 403,341,000 | 84% | 74,860,000 | 16% | 478,201,000 | 100% |

| 2022 | RAINFALL | OSAGE BEACH | | LAKE OZARK | | TOTAL | % |
|---|---|---|---|---|---|---|---|
| January | 1.7 | 23,599,000 | 83% | 4,824,000 | 17% | 28,423,000 | 100% |
| February | 3.8 | 21,853,000 | 83% | 4,610,000 | 17% | 26,463,000 | 100% |
| March | 5.2 | 28,266,000 | 83% | 5,657,000 | 17% | 33,923,000 | 100% |
| April | 6.3 | 28,580,000 | 82% | 6,088,000 | 18% | 34,668,000 | 100% |
| May | 9.1 | 41,076,000 | 83% | 8,597,000 | 17% | 49,673,000 | 100% |
| June | 3.3 | 39,125,000 | 84% | 7,563,000 | 16% | 46,688,000 | 100% |
| July | 2.6 | 45,728,000 | 84% | 8,591,000 | 16% | 54,319,000 | 100% |
| August | | | | | | | |
| September | | | | | | | |
| October | | | | | | | |
| November | | | | | | | |
| December | | | | | | | |
| | 31.9 | 228,227,000 | 83% | 45,930,000 | 17% | 274,157,000 | 100% |

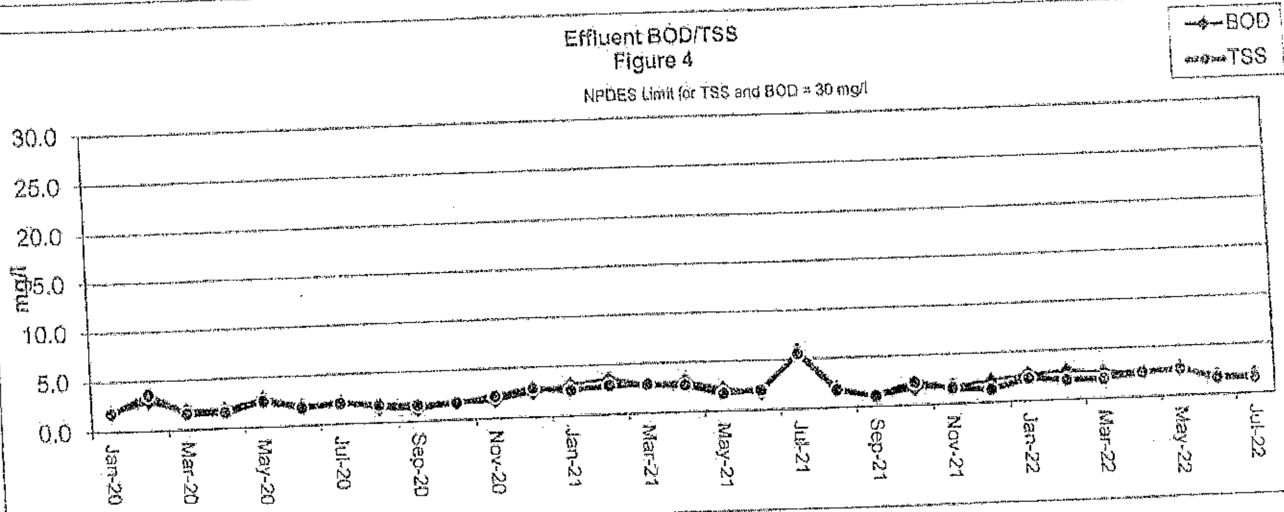
Monthly Influent Flow
Figure 3A




Monthly Influent Flow
Figure 3B




Effluent BOD/TSS
Figure 4
NPDES Limit for TSS and BOD = 30 mg/l

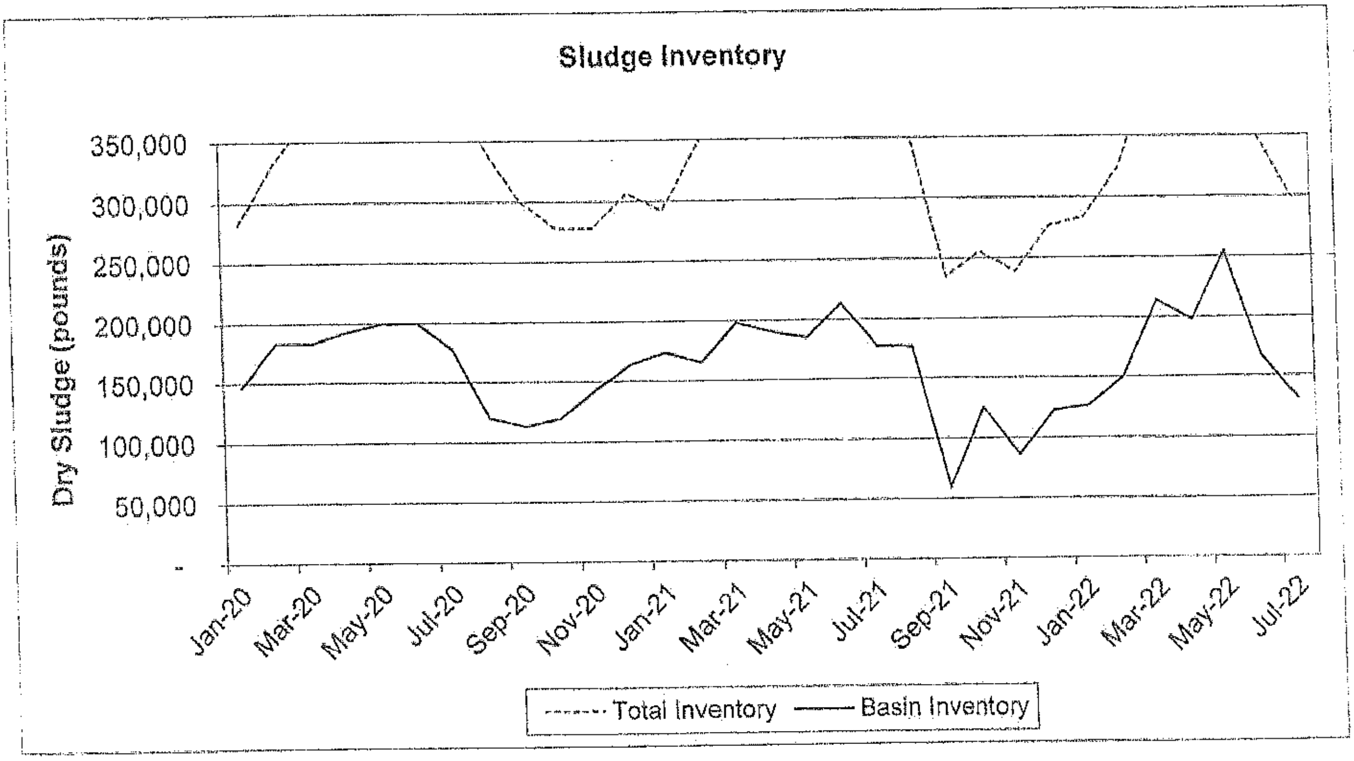


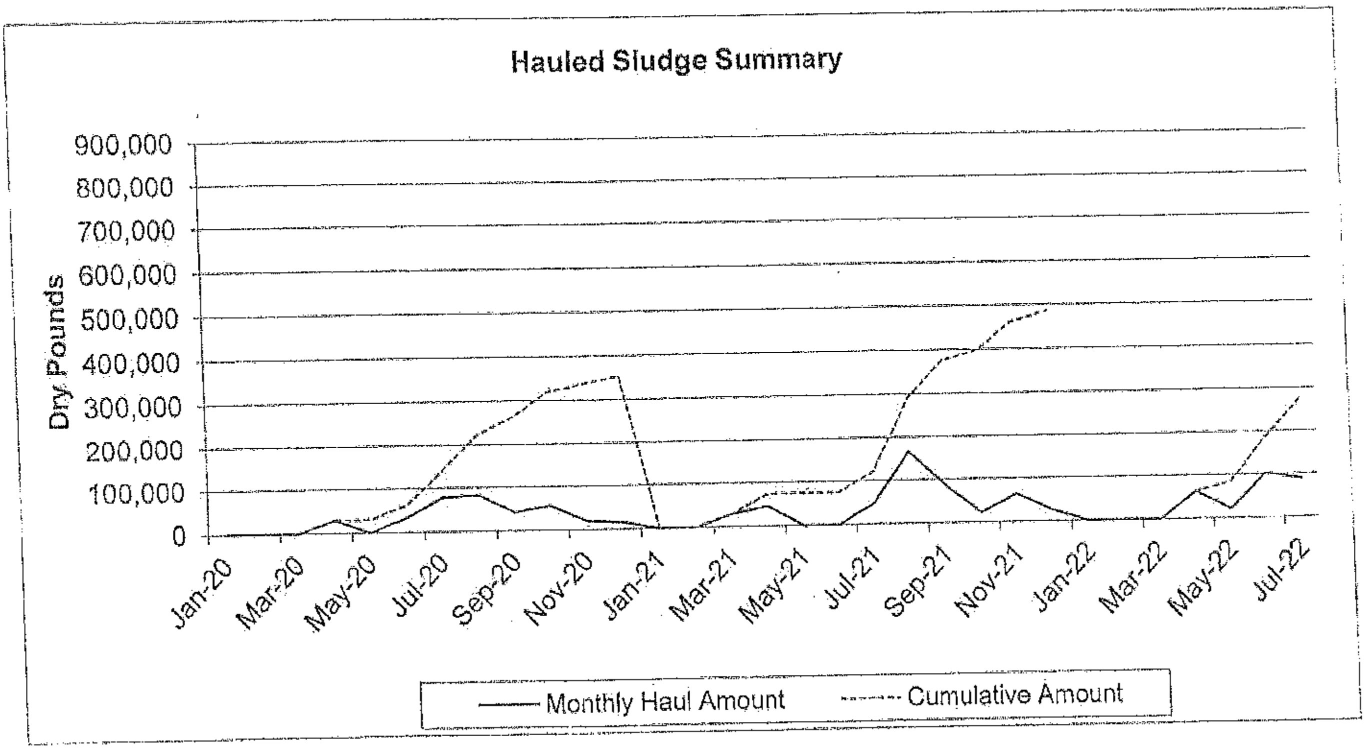
| | Hauled Sludge | | | | |
|---|---|---|---|---|---|
| | Loads | Gallons | # Dry | % Solids | Annual Cumulative # Dry |
| Jan-20 | 0 | - | 0 | 3.9% | |
| Feb-20 | 0 | - | 0 | 3.9% | - |
| Mar-20 | 0 | - | 0 | 3.9% | - |
| Apr-20 | 25 | 92,500 | 29,315 | 3.8% | 29,315 |
| May-20 | 0 | - | 0 | 3.8% | 29,315 |
| Jun-20 | 25 | 92,500 | 31,660 | 4.1% | 60,975 |
| Jul-20 | 69 | 255,300 | 77,268 | 3.5% | 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 | 45,269 | 3.8% | 74,152 |
| May-21 | 0 | - | 0 | 3.8% | 74,152 |
| Jun-21 | 0 | - | 0 | 3.6% | 74,152 |
| Jul-21 | 40 | 144,000 | 47,378 | 3.9% | 121,530 |
| Aug-21 | 153 | 550,800 | 166,363 | 3.6% | 287,893 |
| Sep-21 | 92 | 331,200 | 87,226 | 3.2% | 375,119 |
| Oct-21 | 17 | 61,200 | 22,698 | 4.4% | 397,817 |
| Nov-21 | 46 | 165,600 | 63,621 | 4.6% | 461,438 |
| Dec-21 | 16 | 57,600 | 24,139 | 5.0% | 495,577 |
| Jan-22 | 0 | - | 0 | 4.5% | |
| Feb-22 | 0 | - | 0 | 4.0% | |
| Mar-22 | 0 | - | 0 | 4.4% | |
| Apr-22 | 47 | 169,200 | 52,120 | 4.4% | 62,120 |
| May-22 | 16 | 57,600 | 21,017 | 4.4% | 83,137 |
| Jun-22 | 84 | 302,400 | 102,052 | 4.0% | 185,189 |
| Jul-22 | 80 | 288,000 | 88,961 | 3.7% | 274,150 |

| | Basin Depths | | | | |
|---|---|---|---|---|---|
| | Tank #1 | Tank #2 | AB #1 | Basin Gallons | # Dry |
| Jan-20 | 6.0 | 4.0 | 0.0 | 450,000 | 146,357 |
| Feb-20 | 6.5 | 5.0 | 0.0 | 562,500 | 182,959 |
| Mar-20 | 5.5 | 7.0 | 0.0 | 562,500 | 182,959 |
| Apr-20 | 6.0 | 7.5 | 0.0 | 607,500 | 192,528 |
| May-20 | 6.0 | 8.0 | 0.0 | 630,000 | 199,660 |
| Jun-20 | 6.0 | 7.0 | 0.0 | 585,000 | 209,228 |
| Jul-20 | 6.0 | 7.0 | 0.0 | 585,000 | 177,054 |
| Aug-20 | 5.0 | 4.0 | 0.0 | 405,000 | 119,953 |
| Sep-20 | 4.0 | 4.5 | 0.0 | 382,500 | 113,246 |
| Oct-20 | 5.0 | 3.0 | 0.0 | 360,000 | 119,563 |
| Nov-20 | 5.0 | 6.0 | 0.0 | 495,000 | 143,111 |
| Dec-20 | 4.5 | 5.5 | 0.0 | 450,000 | 164,112 |
| Jan-21 | 7.0 | 3.5 | 0.0 | 472,500 | 173,389 |
| Feb-21 | 5.0 | 5.0 | 0.0 | 450,000 | 165,132 |
| Mar-21 | 6.0 | 7.0 | 0.0 | 585,000 | 198,549 |
| Apr-21 | 6.0 | 7.5 | 0.0 | 607,500 | 190,582 |
| May-21 | 6.0 | 7.0 | 0.0 | 585,000 | 185,398 |
| Jun-21 | 7.0 | 8.0 | 0.0 | 675,000 | 213,921 |
| Jul-21 | 5.0 | 7.0 | 0.0 | 540,000 | 177,668 |
| Aug-21 | 7.0 | 6.0 | 0.0 | 585,000 | 176,693 |
| Sep-21 | 2.0 | 3.0 | 0.0 | 225,000 | 59,257 |
| Oct-21 | 3.5 | 4.0 | 0.0 | 337,500 | 125,173 |
| Nov-21 | 3.0 | 2.0 | 0.0 | 225,000 | 66,442 |
| Dec-21 | 4.0 | 2.5 | 0.0 | 292,500 | 122,581 |
| Jan-22 | 4.5 | 3.0 | 0.0 | 337,500 | 126,664 |
| Feb-22 | 7.0 | 3.0 | 0.0 | 450,000 | 150,120 |
| Mar-22 | 6.0 | 7.0 | 0.0 | 585,000 | 214,672 |
| Apr-22 | 7.0 | 5.0 | 0.0 | 540,000 | 198,255 |
| May-22 | 8.5 | 7.0 | 0.0 | 697,500 | 254,503 |
| Jun-22 | 7.0 | 4.0 | 0.0 | 495,000 | 157,049 |
| Jul-22 | 7.0 | 2.5 | 0.0 | 427,500 | 132,051 |

| | Blanket Depths | | | MLSS Inventory | |
|---|---|---|---|---|---|
| | Clarf #1 | Clarf #2 | Clarf #3 | MLSS AB #1 | MLSS AB #2 |
| Jan-20 | 1.0 | 1.5 | 0.0 | 4,260 | 4,690 |
| Feb-20 | 3.5 | 2.0 | 0.0 | 5,190 | 4,390 |
| Mar-20 | 2.0 | 5.0 | 1.0 | 5,760 | 5,940 |
| Apr-20 | 1.0 | 1.0 | 1.0 | 5,740 | 5,290 |
| May-20 | 1.0 | 7.0 | 1.0 | 6,010 | 6,110 |
| Jun-20 | 6.0 | 7.0 | 0.5 | 7,050 | 7,120 |
| Jul-20 | 7.0 | 7.0 | 1.0 | 6,890 | 7,380 |
| Aug-20 | 6.0 | 6.0 | 1.0 | 6,530 | 7,400 |
| Sep-20 | 1.0 | 1.0 | 0.5 | 6,000 | 6,200 |
| Oct-20 | 1.0 | 1.0 | 1.0 | 4,960 | 5,070 |
| Nov-20 | 1.0 | 0.0 | 0.5 | 4,780 | 4,080 |
| Dec-20 | 1.0 | 0.0 | 0.5 | 5,030 | 4,360 |
| Jan-21 | 6.0 | 0.0 | 1.0 | 3,810 | 3,780 |
| Feb-21 | 5.0 | 8.0 | 0.0 | 5,490 | 5,750 |
| Mar-21 | 2.0 | 5.0 | 0.5 | 6,830 | 6,330 |
| Apr-21 | 12.0 | 5.0 | 1.0 | 8,890 | 5,350 |
| May-21 | 13.0 | 14.0 | 1.0 | 6,200 | 6,330 |
| Jun-21 | 6.0 | 7.5 | 2.0 | 7,260 | 8,060 |
| Jul-21 | 7.0 | 12.0 | 3.0 | 9,190 | 8,110 |
| Aug-21 | 1.0 | 1.0 | 0.5 | 6,160 | 5,840 |
| Sep-21 | 1.0 | 1.0 | 0.5 | 5,320 | 6,180 |
| Oct-21 | 1.0 | 0.5 | 0.5 | 4,430 | 4,140 |
| Nov-21 | 0.5 | 1.0 | 0.0 | 5,130 | 4,980 |
| Dec-21 | 1.0 | 1.0 | 0.0 | 4,540 | 5,630 |
| Jan-22 | 1.0 | 3.5 | 0.0 | 5,060 | 5,180 |
| Feb-22 | 4.0 | 1.5 | 0.0 | 6,280 | 5,030 |
| Mar-22 | 9.0 | 10.0 | 0.0 | 5,870 | 5,760 |
| Apr-22 | 10.0 | 10.0 | 1.0 | 7,100 | 5,600 |
| May-22 | 2.0 | 10.0 | 1.0 | 6,290 | 6,630 |
| Jun-22 | 4.5 | 0.5 | 1.5 | 5,760 | 6,010 |
| Jul-22 | 8.0 | 3.0 | 1.5 | 4,740 | 5,860 |

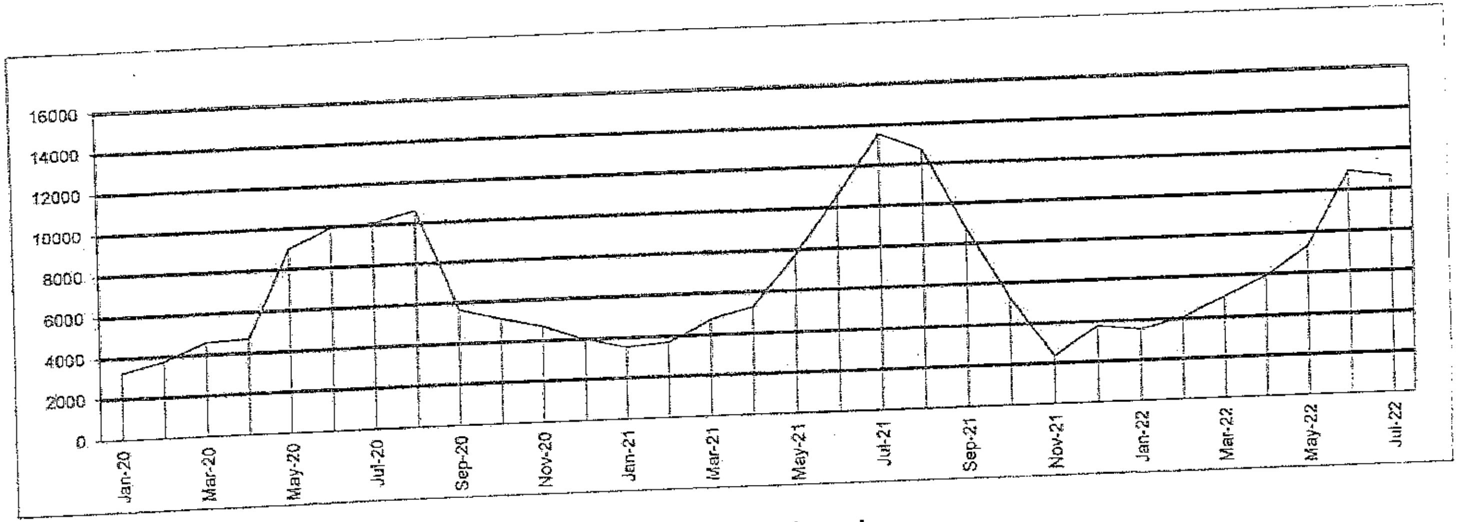
| | Blanket and MLSS Inventory | | MLSS | Total Dry | Accepted Septage | |
|---|---|---|---|---|---|---|
| | Gallons | # Dry | % Solids | Sludge Inventory | Loads | Gallons |
| Jan-20 | 3,644,405 | 136,015 | 0.00448 | 282,362 | 16 | 34,100 |
| Feb-20 | 3,697,691 | 147,718 | 0.00479 | 330,676 | 23 | 57,000 |
| Mar-20 | 3,757,762 | 183,825 | 0.00565 | 366,784 | 25 | 64,500 |
| Apr-20 | 3,678,952 | 169,214 | 0.00552 | 361,742 | 39 | 107,000 |
| May-20 | 3,785,524 | 191,322 | 0.00606 | 390,981 | 35 | 83,000 |
| Jun-20 | 3,852,620 | 227,647 | 0.00709 | 427,875 | 6 | 18,000 |
| Jul-20 | 3,892,098 | 231,603 | 0.00714 | 408,656 | 88 | 208,000 |
| Aug-20 | 3,856,572 | 224,021 | 0.00697 | 343,974 | 67 | 158,000 |
| Sep-20 | 3,657,238 | 186,058 | 0.0061 | 299,304 | 45 | 104,500 |
| Oct-20 | 3,678,952 | 158,015 | 0.00515 | 277,578 | 16 | 32,000 |
| Nov-20 | 3,639,476 | 134,465 | 0.00443 | 277,576 | 16 | 36,000 |
| Dec-20 | 3,639,476 | 142,508 | 0.0047 | 306,620 | 33 | 69,000 |
| Jan-21 | 3,750,000 | 118,669 | 0.0038 | 292,077 | 83 | 205,500 |
| Feb-21 | 3,830,906 | 179,558 | 0.00562 | 344,690 | 28 | 69,500 |
| Mar-21 | 3,746,048 | 205,573 | 0.00658 | 404,122 | 32 | 70,000 |
| Apr-21 | 3,945,382 | 201,375 | 0.00612 | 391,957 | 22 | 52,000 |
| May-21 | 4,123,002 | 215,427 | 0.00627 | 400,825 | 48 | 128,500 |
| Jun-21 | 3,925,643 | 234,903 | 0.00717 | 448,824 | 63 | 151,500 |
| Jul-21 | 4,067,762 | 279,340 | 0.00823 | 457,007 | 117 | 289,000 |
| Aug-21 | 3,657,238 | 183,008 | 0.0060 | 359,701 | 65 | 163,000 |
| Sep-21 | 3,657,238 | 176,383 | 0.0058 | 234,640 | 62 | 159,500 |
| Oct-21 | 3,648,357 | 130,381 | 0.0043 | 255,554 | 34 | 80,000 |
| Nov-21 | 3,626,643 | 152,138 | 0.0050 | 238,580 | 37 | 83,000 |
| Dec-21 | 3,635,524 | 154,179 | 0.0051 | 276,759 | 27 | 62,000 |
| Jan-22 | 3,679,929 | 157,136 | 0.0051 | 283,800 | 13 | 27,000 |
| Feb-22 | 3,697,691 | 174,393 | 0.0057 | 324,513 | 32 | 68,000 |
| Mar-22 | 3,937,478 | 190,464 | 0.0058 | 405,135 | 23 | 48,000 |
| Apr-22 | 3,998,668 | 211,765 | 0.0064 | 410,021 | 52 | 124,500 |
| May-22 | 3,856,572 | 207,778 | 0.0065 | 462,281 | 37 | 85,000 |
| Jun-22 | 3,753,952 | 184,247 | 0.0059 | 351,297 | 42 | 93,500 |
| Jul-22 | 3,660,524 | 166,296 | 0.0052 | 298,348 | 33 | 68,500 |


Sludge Inventory
Dry Sludge (pounds)
350,000
300,000
250,000
200,000
150,000
100,000
50,000
-
Jan-20
Mar-20
May-20
Jul-20
Sep-20
Nov-20
Jan-21
Mar-21
May-21
Jul-21
Sep-21
Nov-21
Jan-22
Mar-22
May-22
Jul-22
Total Inventory
Basin Inventory

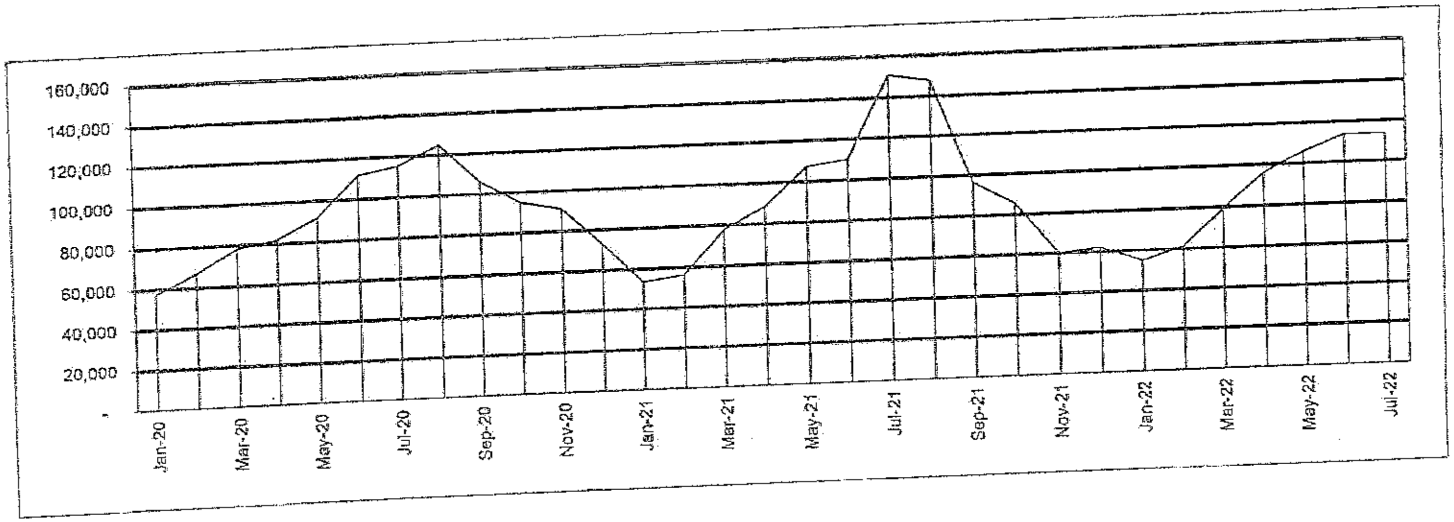

Hauled Sludge Summary
Dry Pounds
900,000
800,000
700,000
600,000
500,000
400,000
300,000
200,000
100,000
0
Jan-20
Mar-20
May-20
Jul-20
Sep-20
Nov-20
Jan-21
Mar-21
May-21
Jul-21
Sep-21
Nov-21
Jan-22
Mar-22
May-22
Jul-22
Monthly Haul Amount
Cumulative Amount

| | Electric Cost | Kilowatts Used |
|---|---|---|
| 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 |
| Oct-21 | 5233 | 85,530 |
| Nov-21 | 2348 | 60,370 |
| Dec-21 | 3776 | 62,100 |
| Jan-22 | 3547 | 55,070 |
| Feb-22 | 4063 | 61,330 |
| Mar-22 | 4979 | 79,050 |
| Apr-22 | 5907 | 96,160 |
| May-22 | 7292 | 106,100 |
| Jun-22 | 10958 | 113,870 |
| Jul-22 | 10648 | 113,590 |

## 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 |
|---|---|---|---|
| Jul-22 | 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 | 7.2 | 215 | 290 | | 23.8 | 1.730 | 8.0 | 1.6 | 1.3 | | 8.4 | | 24.2 | 99.3 | 99.6 |
| 2 | 7.0 | | | | 23.2 | 2.079 | 7.3 | | | | 8.3 | | 23.0 | | |
| 3 | 7.0 | | | | 23 | 2.400 | 7.6 | | | | 8.4 | | 24.0 | | |
| 4 | 7.0 | | | | 24.8 | 2.417 | 7.6 | | | | 8.1 | | 25.7 | | |
| 5 | 6.6 | | | | 24.2 | 2.033 | 7.4 | | | | 8.0 | < 20 | 25.9 | | |
| 6 | 7.2 | | | 41.3 | 25.0 | 2.106 | 7.5 | | | 1.35 | 8.1 | | 25.8 | | |
| 7 | 7.2 | | | | 23.8 | 1.830 | 7.8 | | | | 8.1 | | 25.9 | | |
| 8 | 6.7 | 210 | 276 | | 24.1 | 2.194 | 7.5 | 2.6 | 2.3 | | 8.1 | | 25.6 | 98.8 | 99.2 |
| 9 | 7.1 | | | | 24.1 | 2.005 | 7.5 | | | | 8.1 | | 25.4 | | |
| 10 | 7.0 | | | | 23.2 | 2.221 | 7.6 | | | | 8.4 | | 23.6 | | |
| 11 | 7.0 | | | | 25.3 | 2.023 | 7.6 | | | | 8.2 | < 20 | 26.1 | | |
| 12 | 6.7 | | | | 24.0 | 1.900 | 7.6 | | | | 8.2 | | 25.5 | | |
| 13 | 6.9 | | | 45.1 | 25.0 | 1.784 | 7.6 | | | 0.17 | 8.2 | | 26.1 | | |
| 14 | 7.2 | | | | 24.0 | 1.966 | 7.7 | | | | 8.3 | | 24.5 | | |
| 15 | 7.2 | 213 | 246 | | 24.4 | 1.684 | 7.8 | 1.5 | 1.0 | | 8.3 | | 25.2 | 99.3 | 99.6 |
| 16 | 7.4 | | | | 25.2 | 2.109 | 7.9 | | | | 8.2 | | 25.9 | | |
| 17 | 7.3 | | | | 24.3 | 2.210 | 7.8 | | | | 7.7 | | 25.0 | | |
| 18 | 7.3 | | | | 25.7 | 2.027 | 7.9 | | | | 7.9 | < 20 | 26.1 | | |
| 19 | 6.9 | | | | 25.9 | 1.824 | 7.7 | | | | 8.1 | | 26.1 | | |
| 20 | 7.0 | | | 33.8 | 24.3 | 1.840 | 7.6 | | | 0.13 | 7.8 | | 24.3 | | |
| 21 | 7.0 | | | | 25.1 | 1.872 | 7.6 | | | | 7.5 | | 25.8 | | |
| 22 | 7.0 | 183 | 212 | | 25.3 | 1.830 | 7.6 | 1.7 | 1.9 | | 7.4 | | 26.0 | 99.1 | 99.1 |
| 23 | 7.0 | | | | 24.5 | 2.138 | 7.5 | | | | 7.6 | | 25.4 | | |
| 24 | 6.9 | | | | 25.2 | 2.195 | 7.6 | | | | 7.5 | | 25.8 | | |
| 25 | 6.9 | | | | 24.8 | 2.129 | 7.7 | | | | 6.8 | < 20 | 25.7 | | |
| 26 | 6.8 | | | | 24.0 | 1.825 | 8.1 | | | | 7.3 | | 24.7 | | |
| 27 | 7.2 | | | 42.9 | 24.1 | 2.041 | 7.9 | | | 0.10 | 7.5 | | 24.7 | | |
| 28 | 6.8 | | | | 25.0 | 2.043 | 7.4 | | | | 7.7 | | 25.3 | | |
| 29 | 7.0 | 238 | 378 | | 24.4 | 1.973 | 7.7 | 2.1 | 1.7 | | 7.6 | | 25.0 | 99.1 | 99.6 |
| 30 | 7.0 | | | | 23.9 | 2.084 | 7.8 | | | | 9.0 | | 24.2 | | |
| 31 | 7.0 | | | | 24.6 | 2.182 | 7.8 | | | | 8.8 | | 24.8 | | |
| Total | | | | | | 62.694 | | | | | | | | | |
| Avg | | 212 | 260 | 40.8 | 24.5 | 2.022 | | 1.9 | 1.6 | 0.44 | 8.0 | 10.0 | 25.2 | 99.1 | 99.4 |
| Min | 6.6 | 183 | 212 | 33.8 | 23.0 | 1.684 | 7.3 | 1.5 | 1.0 | 0.10 | 6.8 | < 20 | 23.0 | 98.8 | 99.1 |
| Max | 7.4 | 238 | 378 | 45.1 | 25.9 | 2.417 | 8.1 | 2.6 | 2.3 | 1.35 | 9.0 | < 20 | 26.1 | 99.3 | 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 | 2.8 | 4.5 | 0.26 | < 4.9 | < 5.0 | < 1.0 | 311.0 | 6.2 | 60.7 | < 0.10 |
| 7 | | | | | | | | | | |
| 8 | | | | | | | | | | |
| 9 | | | | | | | | | | |
| 10 | | | | | | | | | | |
| 11 | | | | | | | | | | |
| 12 | | | | | | | | | | |
| 13 | | | | | | | | | | |
| 14 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 16 | | | | | | | | | | |
| 17 | | | | | | | | | | |
| 18 | | | | | | | | | | |
| 19 | | | | | | | | | | |
| 20 | | | | | | | | | | |
| 21 | | | | | | | | | | |
| 22 | | | | | | | | | | |
| 23 | | | | | | | | | | |
| 24 | | | | | | | | | | |
| 25 | | | | | | | | | | |
| 26 | | | | | | | | | | |
| 27 | | | | | | | | | | |
| 28 | | | | | | | | | | |
| 29 | | | | | | | | | | |
| 30 | | | | | | | | | | |
| 31 | | | | | | | | | | |
| Total | 2.8 | 4.5 | 0.26 | < 4.9 | < 5.0 | < 1.0 | 311 | 6.20 | 60.7 | < 0.10 |
| Avg | 2.8 | 4.5 | 0.26 | < 4.9 | < 5.0 | < 1.0 | 311 | 6.20 | 60.7 | < 0.10 |
| Min | 2.8 | 4.5 | 0.26 | < 4.9 | < 5.0 | < 1.0 | 311 | 6.20 | 60.7 | < 0.10 |
| Max | 2.8 | 4.5 | 0.26 | < 4.9 | < 5.0 | < 1.0 | 311 | 6.20 | 60.7 | < 0.10 |

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

| Jul-22 | SLUDGE DISP. LBS. DRY WEIGHT | #1 Aeration Basin, O-Ditch, Etc. MIXED LIQUOR * DO mg/l | ** MLSS mg/l | *Settleability *30 min ml | Temp °C | #2 Aeration Basin, O-Ditch, Etc. MIXED LIQUOR * DO mg/l | ** MLSS mg/l | *Settleability *30 min ml | Temp °C | *Weather Conditions Outside * Ambient Temp °F | *RAIN inches | Time |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 5,404 | 1.2 | 5,980 | 780 | 24.2 | 0.8 | 6,960 | 880 | 24.3 | 68 | 0 | 7:30 |
| 2 | | 1.0 | 5,630 | 850 | 23.9 | 1 | 7,120 | 900 | 23.9 | 74 | 0 | 7:30 |
| 3 | | 0.9 | 6,750 | 780 | 23.7 | 0.7 | 6,560 | 900 | 23.9 | 73 | 0.1 | 7:30 |
| 4 | | 0.4 | 5,400 | 750 | 26 | 0.6 | 6,630 | 900 | 25.5 | 78 | 0 | 7:30 |
| 5 | 2,582 | 0.4 | 6,650 | 900 | 26 | 0.6 | 6,170 | 850 | 25.8 | 80 | 0 | 7:30 |
| 6 | 4,924 | 1.7 | 6,420 | 870 | 25.5 | 1.0 | 6,810 | 840 | 25.5 | 77 | 0 | 7:30 |
| 7 | 5,946 | 1.2 | 6,630 | 800 | 25.7 | 0.7 | 7,340 | 850 | 25.8 | 77 | 0 | 7:30 |
| 8 | | 0.7 | 6,450 | 820 | 25.5 | 1.1 | 6,410 | 800 | 25.5 | 75 | 0.8 | 7:30 |
| 9 | | 0.8 | 6,430 | 880 | 25.1 | 0.8 | 6,230 | 880 | 25.1 | 76 | 0 | 7:30 |
| 10 | | 0.8 | 6,660 | 870 | 24.0 | 1.1 | 7,250 | 900 | 23.8 | 69 | 0 | 7:30 |
| 11 | | 0.8 | 6,230 | 850 | 25.9 | 0.8 | 5,990 | 810 | 25.5 | 71 | 0 | 7:30 |
| 12 | 3,513 | 0.6 | 8,780 | 900 | 25.2 | 1.1 | 5,860 | 550 | 25.2 | 76 | 0 | 7:30 |
| 13 | 11,619 | 1.5 | 7,670 | 880 | 25.6 | 1.9 | 6,170 | 810 | 25.0 | 68 | 0 | 7:30 |
| 14 | 12,010 | 0.9 | 6,580 | 870 | 24.2 | 1.2 | 5,610 | 760 | 24.3 | 67 | 0 | 7:30 |
| 15 | | 0.9 | 6,440 | 870 | 24.7 | 1.0 | 6,060 | 860 | 24.6 | 75 | 0 | 7:30 |
| 16 | | 0.6 | 6,110 | 800 | 24.8 | 1.1 | 6,420 | 830 | 25.2 | 79 | 0 | 7:30 |
| 17 | | 1.8 | 4,420 | 550 | 24.8 | 1.3 | 5,740 | 710 | 24.7 | 73 | 0 | 7:30 |
| 18 | 7,026 | 0.8 | 5,770 | 830 | 25.7 | 1.0 | 5,440 | 800 | 25.5 | 74 | 0 | 7:30 |
| 19 | | 0.8 | 6,110 | 820 | 26.6 | 1.1 | 5,460 | 860 | 25.8 | 71 | 0 | 7:30 |
| 20 | 9,908 | 1.2 | 5,880 | 860 | 25.7 | 1.0 | 5,260 | 810 | 26.0 | 76 | 0 | 7:30 |
| 21 | 9,728 | 1.1 | 6,140 | 830 | 26.5 | 0.9 | 6,070 | 880 | 25.5 | 71 | 0 | 7:30 |
| 22 | 7,926 | 1.3 | 5,630 | 820 | 25.9 | 1.2 | 6,270 | 870 | 25.6 | 74 | 0 | 7:30 |
| 23 | | 1.5 | 5,630 | 820 | 25.0 | 1.2 | 6,550 | 900 | 25.2 | 73 | 0 | 7:30 |
| 24 | | 1.6 | 5,420 | 840 | 25.6 | 1.1 | 6,010 | 880 | 25.7 | 81 | 0 | 7:30 |
| 25 | | 1.2 | 4,500 | 710 | 25.7 | 1.0 | 7,380 | 910 | 25.6 | 75 | 0.5 | 7:30 |
| 26 | 8,377 | 1.0 | 5,730 | 820 | 24.1 | 1.2 | 5,950 | 870 | 24.6 | 69 | 0.2 | 7:30 |
| 27 | | 0.8 | 5,400 | 800 | 24.6 | 0.9 | 5,490 | 850 | 24.9 | 73 | 0.7 | 7:30 |
| 28 | | 0.8 | 5,680 | 800 | 24.7 | 1.1 | 6,430 | 870 | 25.0 | 75 | 0 | 7:30 |
| 29 | | 0.1 | 5,630 | 800 | 24.8 | 1.1 | 6,470 | 860 | 25.0 | 69 | 0.25 | 6:30 |
| 30 | | 1.5 | 6,160 | 820 | 23.8 | 1.6 | 6,150 | 870 | 24 | 69 | 0 | 7:30 |
| 31 | | 1.1 | 4,740 | 830 | 24.7 | 1.1 | 5,860 | 850 | 24.7 | 72 | 0 | 7:30 |

COMMENTS:

| TESTS PERFORMED BY (PRINT) | SIGNATURE | PHONE # | DATE |
|---|---|---|---|
| John Hornback | John Hornback | (573)365-0455 | 8/4/2022 |
| **REPORT APPROVED BY (PRINT)** | **SIGNATURE** | **PHONE #** | **DATE** |
| Gary Hutchcraft | Gary Hutchcraft | (573)365-0455 | 8/4/2022 |

***Required Daily (Monday - Friday)**

****Required 1/week**

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

| Permit Number | Outfall Number |
|---|---|
| MO0103241 | 001M |
| Monitoring Period | |
| 7/1/22 | 7/31/22 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|---|---|---|---|---|---|---|
| Flow, in conduit or thru treatment plant | ***** | ***** | ***** | ***** | 2.417 | 2.022 | Mgal/d |
| Mon. Location.: End of Pipe<br>Sample Type: Total Measured<br>Frequency: Daily | *****:***** | *****:***** | *****:***** | | Daily Max.:Monitoring Required | Monthly Avg.:Monitoring Required | |
| BOD, 5-day, 20 deg. C | ***** | 2.6 | 1.9 | mg/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe<br>Sample Type: 24 Hour Composite<br>Frequency: Weekly | *****:***** | Weekly Avg.:45 | Monthly Avg.:30 | | *****:***** | *****:***** | |
| Total Suspended Solids (TSS) | ***** | 2.3 | 1.6 | mg/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe<br>Sample Type: 24 Hour Composite<br>Frequency: Weekly | *****:***** | Weekly Avg.:45 | Monthly Avg.:30 | | *****:***** | *****:***** | |
| Escherichia coli (E. coli) | ***** | <20 | 10.0 | #/100mL | ***** | ***** | ***** |
| Mon. Location.: End of Pipe<br>Sample Type: Grab<br>Frequency: Weekly | *****:***** | 7 Day Geo.:630 | 30 Day Geo. Mean:126 | | *****:***** | *****:***** | |
| Phosphorus, total (as P) | 2.8 | ***** | 2.8 | mg/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe<br>Sample Type: 24 Hour Composite<br>Frequency: Monthly | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Nitrogen, Kjeldahl, total (as N) | 4.5 | ***** | 4.5 | mg/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe<br>Sample Type: 24 Hour Composite<br>Frequency: Monthly | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Nitrite plus nitrate total (as N) | 0.26 | ***** | 0.26 | mg/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe<br>Sample Type: 24 Hour Composite<br>Frequency: Monthly | Daily Max.:Monitoring Required | *****:***** | Monthly Avg.:Monitoring Required | | *****:***** | *****:***** | |
| Nitrogen, ammonia total (as | 1.35 | ***** | 0.44 | mg/L | ***** | ***** | ***** |

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

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| N) | | | | | | | |
| Mon. Location.: End of Pipe<br>Sample Type: 24 Hour Composite<br>Frequency: Weekly | Daily Max.:12.1 | *****;***** | Monthly Avg.:1.5 | | *****;***** | *****;***** | |
| **pH** | 7.3 | ***** | 8.1 | SU | ***** | ***** | ***** |
| Mon. Location.: End of Pipe<br>Sample Type: Grab<br>Frequency: Weekly | Minimum:6.0 | *****;***** | Maximum:9.0 | | *****;***** | *****;***** | |
| **BOD, 5-day, percent removal** | ***** | ***** | 98.8 | % | ***** | ***** | ***** |
| Mon. Location.: End of Pipe<br>Sample Type: Calculated<br>Frequency: Monthly | *****;***** | *****;***** | Monthly Avg. Min.:85 | | *****;***** | *****;***** | |
| **Suspended Solids, percent removal** | ***** | ***** | 99.1 | % | ***** | ***** | ***** |
| Mon. Location.: End of Pipe<br>Sample Type: Calculated<br>Frequency: Monthly | *****;***** | *****;***** | Monthly Avg. Min.:85 | | *****;***** | *****;***** | |

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

| Permit Number | Outfall Number |
|---|---|
| MO0103241 | INFM |
| Monitoring Period | |
| 7/1/22 | 7/31/22 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|---|---|---|---|---|---|---|
| BOD, 5-day, 20 deg. C | ***** | ***** | 212 | mg/L | ***** | ***** | ***** |
| Mon. Location.: Influent<br>Sample Type: 24 Hour Composite<br>Frequency: Monthly | *****;***** | *****;***** | Monthly Avg.:Monitoring Required | | *****;***** | *****;***** | |
| Total Suspended Solids (TSS) | ***** | ***** | 280 | mg/L | ***** | ***** | ***** |
| Mon. Location.: Influent<br>Sample Type: 24 Hour Composite<br>Frequency: Monthly | *****;***** | *****;***** | Monthly Avg.:Monitoring Required | | *****;***** | *****;***** | |
| Nitrogen, ammonia total (as N) | 45.1 | ***** | 40.8 | mg/L | ***** | ***** | ***** |
| Mon. Location.: Influent<br>Sample Type: 24 Hour Composite<br>Frequency: Monthly | Daily Max.:Monitoring Required | *****;***** | Monthly Avg.:Monitoring Required | | *****;***** | *****;***** | |
| Phosphorus, total (as P) | 6.2 | ***** | 6.2 | mg/L | ***** | ***** | ***** |
| Mon. Location.: Influent<br>Sample Type: 24 Hour Composite<br>Frequency: Monthly | Daily Max.:Monitoring Required | *****;***** | Monthly Avg.:Monitoring Required | | *****;***** | *****;***** | |
| Nitrogen, Kjeldahl, total (as N) | 60.7 | ***** | 60.7 | mg/L | ***** | ***** | ***** |
| Mon. Location.: Influent<br>Sample Type: 24 Hour Composite<br>Frequency: Monthly | Daily Max.:Monitoring Required | *****;***** | Monthly Avg.:Monitoring Required | | *****;***** | *****;***** | |
| Nitrite plus nitrate total (as N) | <0.10 | ***** | <0.10 | mg/L | ***** | ***** | ***** |
| Mon. Location.: Influent<br>Sample Type: 24 Hour Composite<br>Frequency: Monthly | Daily Max.:Monitoring Required | *****;***** | Monthly Avg.:Monitoring Required | | *****;***** | *****;***** | |

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 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 | Submission Date | User Phone Number |
|---|---|---|
| Gary Hutchcraft | August 4, 2022 | (573)365-0455 |

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

| Permit Number | Outfall Number |
|---|---|
| MO0103241 | 001Q |
| Monitoring Period | |
| 7/1/22 | 9/30/22 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|---|---|---|---|---|---|---|
| **Oil and grease** | <4.9 | ***** | <4.9 | mg/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:15 | *****;***** | Monthly Avg.:10 | | *****;***** | *****;***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Quarterly | | | | | | | |
| **Cadmium, total recoverable** | <5.0 | ***** | <5.0 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****;***** | Monthly Avg.:Monitoring Required | | *****;***** | *****;***** | |
| Sample Type: 24 Hour Composite | | | | | | | |
| Frequency: Quarterly | | | | | | | |
| **Selenium (Se), total recoverable** | <1.0 | ***** | <1.0 | ug/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****;***** | Monthly Avg.:Monitoring Required | | *****;***** | *****;***** | |
| Sample Type: 24 Hour Composite | | | | | | | |
| Frequency: Quarterly | | | | | | | |
| **Hardness, total (as CaCO3)** | 311 | ***** | 311 | mg/L | ***** | ***** | ***** |
| Mon. Location.: End of Pipe | Daily Max.:Monitoring Required | *****;***** | Monthly Avg.:Monitoring Required | | *****;***** | *****;***** | |
| Sample Type: Grab | | | | | | | |
| Frequency: Quarterly | | | | | | | |

**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 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 | Submission Date | User Phone Number |
|---|---|---|
| Gary Hutchcraft | August 10, 2022 | (573)365-0455 |

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

| Permit Number | Outfall Number |
|---|---|
| MO0103241 | 001WA |
| Monitoring Period | |
| 1/1/22 | 12/31/22 |
| NODI: | ***** |

| Parameters | Reporting Requirements | | | Unit | Reporting Requirements | | Unit |
|---|---|---|---|---|---|---|---|
| **Toxicity, ceriodaphnia acute** | 1.0 | ***** | ***** | toxic | ***** | ***** | ***** |
| Mon. Location.: End of Pipe<br>Sample Type: 24 Hour Composite<br>Frequency: Annual | Daily Max.:Monitoring Required | *****;***** | *****;***** | | *****;***** | *****;***** | |
| **Toxicity, pimephales acute** | 1.0 | ***** | ***** | toxic | ***** | ***** | ***** |
| Mon. Location.: End of Pipe<br>Sample Type: 24 Hour Composite<br>Frequency: Annual | Daily Max.:Monitoring Required | *****;***** | *****;***** | | *****;***** | *****;***** | |

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 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 | Submission Date | User Phone Number |
|---|---|---|
| Gary Hutchcraft | August 4, 2022 | (573)365-0455 |

LAKE OZARK/OSAGE BEACH WWTP
Operation Report

Month JULY 2022

| PLANT INFLUENT | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | INIT. | | | | | | | | | | | | | | pH | TEMP |
| 1 | RG/GH | 0.229 | 1.252 | 1.481 | 358 | 255 | 215 | 255 | 226 | 290 | | | | | 7.12 | 23.8 |
| 2 | RG/GH | 0.280 | 1.465 | 1.745 | | | | | | | | | | | 6.95 | 23.2 |
| 3 | RG/GH | 0.348 | 1.675 | 2.023 | | | | | | | | | | | 6.97 | 23.0 |
| 4 | RG/GH | 0.348 | 1.773 | 2.121 | | | | | | | | | | | 6.95 | 24.8 |
| 5 | RG/GH | 0.323 | 1.408 | 1.731 | | | | | | | | | | | 6.55 | 25.0 |
| 6 | RG/GH | 0.326 | 1.484 | 1.810 | | | | | | | 41.3 | 6.2 | 60.7 | <0.10 | 7.17 | 25.6 |
| 7 | RG/GH | 0.231 | 1.303 | 1.534 | | | | | | | | | | | 7.24 | 23.8 |
| 8 | RG/GH | 0.274 | 1.528 | 1.802 | 415 | 212 | 210 | 418 | 172 | 226 | | | | | 6.72 | 24.1 |
| 9 | GH | 0.304 | 1.596 | 1.900 | | | | | | | | | | | 7.09 | 24.1 |
| 10 | GH | 0.284 | 1.606 | 1.890 | | | | | | | | | | | 7.04 | 23.2 |
| 11 | GH | 0.262 | 1.445 | 1.707 | | | | | | | | | | | 7.02 | 25.3 |
| 12 | RG/GH | 0.275 | 1.335 | 1.610 | | | | | | | | | | | 6.73 | 24.6 |
| 13 | GH | 0.205 | 1.317 | 1.522 | | | | | | | 45.1 | | | | 6.90 | 22.0 |
| 14 | GH | 0.238 | 1.359 | 1.597 | | | | | | | | | | | 7.16 | 24.0 |
| 15 | GH | 0.238 | 1.343 | 1.581 | 408 | 183 | 213 | 342 | 178 | 246 | | | | | 7.22 | 24.4 |
| 16 | RG/GH | 0.278 | 1.552 | 1.830 | | | | | | | | | | | 7.39 | 23.2 |
| 17 | RG/GH | 0.299 | 1.636 | 1.935 | | | | | | | | | | | 7.22 | 24.3 |
| 18 | RG/GH | 0.296 | 1.490 | 1.786 | | | | | | | | | | | 7.32 | 25.7 |
| 19 | RG/GH | 0.215 | 1.364 | 1.579 | | | | | | | | | | | 6.96 | 25.0 |
| 20 | JFH | 0.261 | 1.351 | 1.612 | | | | | | | 33.8 | | | | 6.95 | 24.3 |
| 21 | JFH | 0.255 | 1.377 | 1.632 | | | | | | | | | | | 6.97 | 25.1 |
| 22 | JFH | 0.261 | 1.379 | 1.640 | 268 | 160 | 183 | 228 | 128 | 212 | | | | | 6.98 | 25.3 |
| 23 | JFH | 0.313 | 1.592 | 1.905 | | | | | | | | | | | 6.95 | 24.5 |
| 24 | JFH | 0.290 | 1.649 | 1.939 | | | | | | | | | | | 6.97 | 25.2 |
| 25 | JFH | 0.277 | 1.573 | 1.850 | | | | | | | | | | | 6.93 | 24.8 |
| 26 | JFH | 0.234 | 1.450 | 1.684 | | | | | | | | | | | 6.83 | 24.9 |
| 27 | RG/JFH | 0.297 | 1.440 | 1.737 | | | | | | | 42.9 | | | | 7.16 | 24.1 |
| 28 | RG | 0.285 | 1.462 | 1.747 | | | | | | | | | | | 6.75 | 25.8 |
| 29 | RG/JFH | 0.261 | 1.450 | 1.711 | 263 | 193 | 238 | 254 | 162 | 278 | | | | | 7.02 | 24.4 |
| 30 | RG | 0.291 | 1.497 | 1.788 | | | | | | | | | | | 6.97 | 23.6 |
| 31 | RG | 0.311 | 1.579 | 1.890 | | | | | | | | | | | 7.03 | 24.6 |
| TOTAL | | 8.591 | 45.728 | 54.319 | 1712 | 1066 | 1058 | 1500 | 866 | 1302 | 163.1 | 6.2 | 60.7 | <0.10 | 217.2 | 754.6 |
| MAX | | 0.348 | 1.773 | 2.121 | 415 | 258 | 238 | 418 | 226 | 290 | 45.1 | 6.2 | 60.7 | <0.10 | 7.39 | 25.9 |
| MIN | | 0.205 | 1.252 | 1.457 | 263 | 160 | 183 | 228 | 128 | 212 | 33.8 | 6.2 | 60.7 | <0.10 | 6.55 | 23 |
| AVG | | 0.277 | 1.475 | 1.752 | 342 | 201 | 212 | 300 | 173 | 260 | 40.8 | 6.2 | 60.7 | <0.10 | 7.01 | 24.3 |

| ENVIRONMENTAL CONDITIONS | | | | AERATION BASIN 1 MIXED LIQUOR | | | | | AERATION BASIN 2 MIXED LIQUOR | | | | | CLARIFIER | CLARIFIER | CLARIFIER |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | WEATHER | PRECIPITATION | | | | | | | | | | | | | | |
| 1 | C | 0 | 68 | 5,980 | 760 | 110 | 7.59 | 1.2 | 6,960 | 880 | 125.00 | 7.9 | 0.8 | 9.0 | 2.0 | 0.5 |
| 2 | R | 0 | 74 | 5,630 | 850 | 150 | 7.27 | 1.0 | 7,120 | 900 | 126 | 7.24 | 1.0 | 5.0 | 4.0 | 1.0 |
| 3 | C | 0.1 | 73 | 6,750 | 780 | 115 | 7.19 | 0.9 | 6,560 | 905 | 137 | 7.28 | 0.7 | 7.0 | 8.0 | 1.0 |
| 4 | C | 0 | 74 | 5,490 | 750 | 133 | 7.15 | 0.4 | 6,050 | 900 | 135 | 7.19 | 0.6 | 8.0 | 9.0 | 1.5 |
| 5 | C | 0 | 80 | 6,050 | 900 | 135 | 7.09 | 0.4 | 6,170 | 850 | 137 | 7.09 | 0.6 | 5.0 | 3.0 | 0.5 |
| 6 | C | 0 | 77 | 6,420 | 870 | 135 | 7.12 | 1.0 | 6,810 | 840 | 123 | 7.37 | 1.0 | 1.0 | 2.0 | 2.5 |
| 7 | C | 0 | 77 | 6,630 | 860 | 120 | 7.65 | 1.2 | 7,140 | 850 | 115 | 7.64 | 0.7 | 6.0 | 8.0 | 0.5 |
| 8 | R | 0.8 | 75 | 6,450 | 820 | 127 | 7.36 | 0.7 | 6,410 | 805 | 124 | 7.32 | 1.1 | 10.0 | 2.0 | 0.5 |
| 9 | O | 0 | 76 | 6,430 | 889 | 137 | 7.33 | 0.9 | 6,230 | 850 | 142 | 7.35 | 0.8 | 6.0 | 4.0 | 0.5 |
| 10 | C | 0 | 62 | 6,660 | 870 | 131 | 7.17 | 0.8 | 7,250 | 900 | 134 | 7.38 | 0.8 | 7.0 | 3.0 | 0.5 |
| 11 | C | 0 | 71 | 6,230 | 850 | 136 | 7.46 | 0.8 | 5,990 | 850 | 135 | 7.28 | 0.8 | 1.0 | 7.0 | 0.5 |
| 12 | C | 0 | 76 | 8,780 | 900 | 102 | 7.28 | 0.6 | 5,800 | 550 | 92 | 7.28 | 1.1 | 6.0 | 1.0 | 2.0 |
| 13 | C | 0 | 68 | 7,670 | 850 | 115 | 7.28 | 1.5 | 6,170 | 810 | 131 | 7.28 | 1.9 | 4.0 | 3.0 | 0.5 |
| 14 | C | 0 | 87 | 6,380 | 870 | 132 | 7.32 | 0.9 | 3,610 | 760 | 133 | 7.29 | 1.2 | 6.0 | 7.0 | 0.5 |
| 15 | C | 0 | 75 | 5,440 | 870 | 135 | 7.35 | 0.9 | 6,060 | 860 | 142 | 7.29 | 1.0 | 2.0 | 4.0 | 0.5 |
| 16 | C | 0 | 79 | 6,110 | 800 | 146 | 7.44 | 0.5 | 6,420 | 830 | 129 | 7.34 | 1.1 | 8.0 | 2.0 | 2.0 |
| 17 | OC | 0 | 73 | 4,420 | 550 | 124 | 7.42 | 1.8 | 5,740 | 710 | 121 | 7.54 | 1.3 | 2.0 | 15.0 | 2.0 |
| 18 | C | 0 | 74 | 5,770 | 850 | 144 | 7.66 | 0.8 | 5,440 | 800 | 147 | 7.52 | 1.0 | 10.0 | 0.5 | 0.5 |
| 19 | C | 0 | 71 | 6,110 | 820 | 134 | 7.30 | 0.8 | 5,460 | 860 | 157 | 7.29 | 1.1 | 4.0 | 1.0 | 0.5 |
| 20 | C | 0 | 76 | 5,880 | 860 | 146 | 7.34 | 1.3 | 5,260 | 810 | 154 | 7.30 | 1.0 | 3.0 | 5.0 | 0.5 |
| 21 | C | 0 | 73 | 6,140 | 850 | 135 | 7.42 | 1.1 | 6,070 | 880 | 145 | 7.44 | 0.9 | 5.0 | 4.0 | 0.5 |
| 22 | C | 0 | 74 | 5,630 | 820 | 146 | 7.37 | 1.3 | 6,270 | 870 | 139 | 7.40 | 1.2 | 6.0 | 7.5 | 0.5 |
| 23 | C | 0 | 73 | 5,630 | 820 | 148 | 7.37 | 1.3 | 6,550 | 900 | 137 | 7.37 | 1.2 | 8.0 | 2.0 | 0.5 |
| 24 | C | 0 | 81 | 5,420 | 840 | 155 | 7.35 | 1.5 | 6,010 | 880 | 146 | 7.35 | 1.1 | 14.0 | 1.0 | 0.5 |
| 25 | R | 0.5 | 75 | 4,500 | 710 | 158 | 7.29 | 1.2 | 7,350 | 910 | 125 | 7.27 | 1.0 | 2.0 | 9.0 | 1.0 |
| 26 | O | 0.2 | 69 | 5,730 | 820 | 143 | 7.27 | 1.0 | 5,950 | 870 | 148 | 7.21 | 1.2 | 1.0 | 8.0 | 1.0 |
| 27 | R | 0.7 | 73 | 5,400 | 800 | 145 | 7.55 | 0.8 | 5,490 | 850 | 154 | 7.51 | 0.9 | 3.5 | 3.5 | 0.5 |
| 28 | O | 0 | 75 | 5,680 | 800 | 140 | 7.06 | 0.8 | 6,430 | 870 | 135 | 6.99 | 1.1 | 1.0 | 4.0 | 0.5 |
| 29 | C | 0.25 | 69 | 5,630 | 800 | 142 | 7.39 | 0.8 | 6,470 | 860 | 133 | 7.46 | 1.3 | 3.0 | 1.0 | 1.0 |
| 30 | C | 0 | 69 | 6,160 | 820 | 133 | 7.51 | 1.5 | 6,150 | 870 | 141 | 7.40 | 1.6 | 8.0 | 2.5 | 1.0 |
| 31 | C | 0 | 72 | 4,740 | 830 | 175 | 7.38 | 1.1 | 5,880 | 850 | 145 | 7.3 | 1.1 | 8.0 | 3.0 | 1.5 |
| TOTAL | | 2.55 | 2278 | 186,650 | 25,420 | 4,232 | 227 | 38.6 | 194,120 | 26,110 | 4,178 | 227 | 32.0 | 156.5 | 133 | 27 |
| MAX | | 0.8 | 81 | 8,780 | 900 | 175 | 7.65 | 1.8 | 7,350 | 910 | 157 | 7.50 | 1.9 | 14.0 | 15.0 | 2.5 |
| MIN | | 0 | 62 | 4,420 | 550 | 102 | 7.00 | 0.4 | 5,250 | 550 | 93 | 6.99 | 0.6 | 1.0 | 0.5 | 0.5 |
| AVG | | 0.08 | 71 | 6,021 | 820 | 137 | 7.31 | 1.0 | 6,262 | 842 | 135 | 7.31 | 1.0 | 5.0 | 4.3 | 0.9 |

| PLANT EFFLUENT | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DATE | FLOW | pH | | | | | TEMP | | | | | | | | | | | | |
| 1 | 1.750 | 8.08 | 1.6 | 1.3 | 8.4 | | 24.2 | | | | | | | | | 0 | 9,835 | | |
| 2 | 2.079 | 7.52 | | | 8.3 | | 23.0 | | | | | | | | | 0 | 11,510 | | |
| 3 | 2.006 | 7.56 | | | 8.4 | | 24.0 | | | | | | | | | 0 | 19,270 | | |
| 4 | 2.417 | 7.16 | | | 8.1 | | 25.7 | | | | | | | | | 0 | 25,070 | | |
| 5 | 2.033 | 7.39 | | | 8.0 | | 25.9 | <20 | | | | | | | | 0 | 10,610 | | |
| 6 | 2.106 | 7.51 | | | 8.1 | 1.35 | 25.8 | | 2.8 | 4.5 | 0.26 | <4.9 | <5.0 | <1.0 | 311 | 0 | 13,495 | | |
| 7 | 1.830 | 7.82 | | | 8.1 | | 25.9 | | | | | | | | | 0 | 11,280 | 90,000 | 8,467 |
| 8 | 2.194 | 7.25 | 2.6 | 2.3 | 8.1 | | 25.6 | | | | | | | | | 0 | 21,720 | 45,000 | 8,153 |
| 9 | 2.005 | 7.53 | | | 8.1 | | 25.4 | | | | | | | | | 0 | 15,595 | | |
| 10 | 2.221 | 7.59 | | | 8.6 | | 23.6 | | | | | | | | | 0 | 14,375 | | |
| 11 | 2.023 | 7.58 | | | 8.2 | | 26.4 | | | | | | | | | 0 | 11,005 | | |
| 12 | 1.900 | 7.55 | | | 8.2 | | 25.5 | <20 | | | | | | | | 0 | 19,855 | 45,000 | 7,452 |
| 13 | 1.784 | 7.59 | | | 8.2 | 0.17 | 26.1 | | | | | | | | | 0 | 16,790 | | |
| 14 | 1.966 | 7.70 | | | 8.3 | | 24.5 | | | | | | | | | 0 | 15,870 | 45,000 | 5,956 |
| 15 | 1.684 | 7.75 | 1.9 | 1.0 | 8.3 | | 25.2 | | | | | | | | | 0 | 10,450 | | |
| 16 | 2.309 | 7.95 | | | 8.2 | | 25.9 | | | | | | | | | 0 | 11,085 | | |
| 17 | 2.210 | 7.54 | | | 7.9 | | 25.0 | | | | | | | | | 0 | 4,005 | | |
| 18 | 2.077 | 7.90 | | | 7.9 | | 26.1 | <20 | | | | | | | | 0 | 9,870 | | |
| 19 | 1.824 | 7.70 | | | 8.1 | | 26.1 | | | | | | | | | 0 | 11,520 | | |
| 20 | 1.840 | 7.55 | | | 7.8 | 0.13 | 25.0 | | | | | | | | | 0.763 | 11,095 | | |
| 21 | 1.872 | 7.63 | | | 7.5 | | 25.8 | | | | | | | | | 0.791 | 11,275 | 45,000 | 4,232 |
| 22 | 1.830 | 7.55 | 1.7 | 1.9 | 7.4 | | 26.0 | | | | | | | | | 0.736 | 9,440 | | |
| 23 | 2.138 | 7.46 | | | 7.6 | | 25.4 | | | | | | | | | 0.828 | 12,010 | | |
| 24 | 2.195 | 7.59 | | | 7.5 | | 25.8 | | | | | | | | | 0.874 | 12,490 | | |
| 25 | 2.129 | 7.73 | | | 6.8 | | 25.7 | <20 | | | | | | | | 1.174 | 13,885 | 90,000 | 10,385 |
| 26 | 1.825 | 8.07 | | | 7.3 | | 24.7 | | | | | | | | | 0.699 | 11,400 | | |
| 27 | 2.041 | 7.93 | | | 7.5 | 0.1 | 24.7 | | | | | | | | | 0.953 | 10,910 | | |
| 28 | 2.043 | 7.43 | | | 7.7 | | 25.3 | | | | | | | | | 0.934 | 10,985 | 45,000 | 4,123 |
| 29 | 1.974 | 7.73 | 2.1 | 1.7 | 7.6 | | 25.0 | | | | | | | | | 0.729 | 9,465 | | |
| 30 | 2.084 | 7.79 | | | 9.0 | | 24.2 | | | | | | | | | 0.860 | 12,355 | | |
| 31 | 2.188 | 7.78 | | | 8.3 | | 24.8 | | | | | | | | | 0.855 | 16,505 | | |
| TOTAL | 62.694 | 237.2 | 9.5 | 8.2 | 247 | 1.75 | 782 | <20 | 2.8 | 4.5 | 0.26 | <4.9 | <5.0 | <1.0 | 311 | 10.191 | 398,775 | 405,000 | 48,768 |
| MAX | 2.417 | 8.07 | 2.6 | 2.3 | 9.0 | 1.35 | 26.4 | <20 | 2.8 | 4.5 | 0.26 | <4.9 | <5.0 | <1.0 | 311 | 1.174 | 25,070 | 90,000 | 10,385 |
| MIN | 1.684 | 7.16 | 1.5 | 1.0 | 6.8 | 0.1 | 23.0 | <20 | 2.8 | 4.5 | 0.26 | <4.9 | <5.0 | <1.0 | 311 | 0 | 4,005 | 45,000 | 4,123 |
| AVG | 2.022 | 7.65 | 1.9 | 1.6 | 8.0 | 0.44 | 25.2 | 10.0 | 2.8 | 4.3 | 0.26 | <4.9 | <5.0 | <1.0 | 311 | 0 | 12,864 | 57,857 | 6,967 |

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

Prepared by GH, JFH

Approved by GH

Date 8/4/2022

(82)

WATER RESOURCES®
Alliance
Professional Water and Wastewater Operations

# 2022 Regulatory Compliance Report

## Mark Mahler, Director of Safety & Regulatory Compliance

Alliance tracks new and proposed legislative and regulatory issues on an ongoing basis on behalf of its clients. This quarterly report identifies some of the most impactful issues at the Federal and State levels.

## 2nd Quarter,

## Federal

### Revised FMCSA Commercial Driver's License Rule

Effective February 7, 2022, Federal Motor Carrier Safety Administration (FMCSA) requires that all workers applying for commercial driver's license complete training that is laid out in the new rule before attaining a CDL. Alliance is implementing an in-house training program that will meet the new requirements and keep costs to a minimum.

### Revised Lead and Copper Rule

Alliance Water Resources has created a program to educate and assist all Alliance Water Resources clients with complying to the EPA Revised Lead & Copper Rule. This program will lay out processes for identifying and replacing actual or potential lines and appurtenances that meet the requirements for replacement. Email mmahler@alliancewater.com if you have any questions or would like a 15-20-minute detailed presentation on this topic.

WATER RESOURCES®
Alliance
Professional Water and Wastewater Operations

# Regulatory Compliance Report

## Mark Mahler, Director of Safety & Compliance

## 2nd Quarter, 2022

## Missouri

### ARPA Grant Funds

Applications for Missouri must be submitted no later than July 14, 2022. Total available funding is $410 million to be used for drinking water, wastewater, stormwater, and lead service line inventory. Funds must be obligated to a project by 12/31/2024 and expended by 12/31/2026. Alliance will be working with clients and engineers as needed.

Get the Lead Out of School Drinking Water Act (Section 160.077 RSMo)

Beginning in the 2023-2024 school year and for each subsequent school year, each Missouri school shall provide drinking water with a lead concentration below five parts per billion (5ppb).

On or before January 1, 2024, each school shall complete requirements outlined in the bill including conducting an inventory of all drinking water outlets and outlets used for dispensing water for cooking and cleaning utensils in each school building, develop a plan for testing each outlet and make such a plan available to the public and providing general information on the health effects of lead contamination to employees and parents at each school. This bill is still awaiting the signature of the Governor and he may choose to veto.

### Total Phosphorous

Alliance will continue to monitor future Phosphorous removal requirements. Some Alliance divisions are in the monitoring phase. According to MO-DNR, POTW average statewide TP effluent is 5mg/L. MO-DNR is pushing for an effluent limit of 1mg/L. This proposed change would affect 141 Missouri treatment plants. This change could require capital improvements to treatment facilities, with greater relative cost impacts to smaller facilities.