OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
JUNE 18, 2019 @ 4:00 p.m.
LAKE OZARK CITY HALL

1. CALL TO ORDER

2. ROLL CALL

Mayor, Osage Beach, John Olivarri
Mayor, Lake Ozark, Gerry Murawski
City Administrator, Osage Beach, Jeana Woods
City Administrator, Lake Ozark, Dave Van Dee
Alderman, Lake Ozark, Judy Neels
Alderman, Osage Beach, Greg Massey
Public Works Director, Osage Beach, Nick Edelman
Public Works Director, Lake Ozark, Matt Michalik
Resident Member, Mr. Gary Hamner

3. MINUTES

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4. REPORTS

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Approval of Flow Charts May 2019	

5. OLD BUSINESS

A. Board Representative update

6. NEW BUSINESS

A. Discussion and Possible action for replacement ABBA impellers for RAS pumps

7. ADDITIONAL DISCUSSION ITEMS

8. ADJOURNMENT

THE NEXT MEETING WILL BE JULY 16, 2019 4:00 PM @ LAKE OZARK CITY HALL

LAKE OZARK-OSAGE BEACH
JOINT SEWER BOARD
Meeting Minutes – May 21, 2019

CALL TO ORDER:
Mayor John Olivarri called the meeting to order at 4:00pm on Tuesday, May 21, 2019 at Lake Ozark City Hall

ROLL CALL:
Mayor, Osage Beach, John Olivarri- Present
Mayor, Lake Ozark, Gerry Murawski - Present
City Administrator Osage Beach, Jeana Woods - Absent
City Administrator Lake Ozark, Dave Van Dee – Present
Alderman Osage Beach, Greg Massey - Absent
Alderman Lake Ozark, Judy Neels- Present
Public Works Director Osage Beach, Nick Edelman - Present
Public Works Director Lake Ozark, Matt Michalik - Present
Resident Member, Mr. Gary Hamner - Present

MINUTES:
City Administrator Van Dee motion to approve the meeting minutes of April 16, 2019. The motion was seconded by Public Works Director Michalik. The motion passed unanimously.

REPORTS:
The April Bill list and Revenue Budget, Expenditure Budget Analysis, Income & Expense Summary and Check Registers and Bank Statements were reviewed. Motion was made by Gary Hamner to approve the documents. Seconded by Public Works Director Edelman. The motion passed unanimously.

Alliance Report of Operations: The average daily incoming flow for April was 1.471 mgd. We had 4.1 inches of precipitation measured at the WWTP in April.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD of 2.4 mg/l and TSS of 2.3 mg/l respectively for April, which represents a 98.6% or better removal.

The MLSS average for both aeration basins was 4,999 mg/l in April. The total dry weight sludge inventory for April totaled 376,798 pounds. There were 39 tanker loads or 144,300 gallons of bio solids land applied in April. We also received 23 tanker loads or 61,500 gallons of septage for the month of April.

APPROVAL OF FLOW CHART
Motion was made by Public Works Director Michalik to approve the Flow Chart for April, seconded by Public Works Director Edelman. Motion passed unanimously.

OLD BUSINESS:

A. Report of action regarding the generator project. Public Works Director Michalik stated they received the bonds and the invoice for the 10% down. They have everything they need to move forward with the contract. A motion was made by Public Works Director Michalik to approve the contract with Martin Energy. Seconded by City administrator Van Dee. Motion passed unanimously.

NEW BUSINESS:

A. Report of action regarding the RAS Flow Meter. Public Works Director Edelman states they had been having issues with the RAS Flow meter. They compared options to repair or replace it. They would like to proceed replacing it with the Eastech Flow Controls for $2970.00. A motion was made by Public Works Director Michalik to proceed with the purchase of the Eastech Flow Meter. Seconded by Public Works Director Edelman. Motion passed unanimously.

B. Report of action to add Mayor Murawski as an additional signer for all documents. A motion was made by Gary Hamner to add Mayor Murawski to the bank docouments, Seconded by Alderman Neels. Motion passed unanimously

ADDITIONAL DISCUSSION ITEMS:

A. City Administrator Van Dee made a motion to add 2 additional bills from Alliance to the bill list. Seconded by Public Works Director Michalik. Motion passed unanimously.

ADJOURNMENT:

With no further business to discuss the meeting adjourned at 4:18 pm.

Approved On June 18, 2019

______________________________ ______________________________

Mayor, John Olivarri City Collector, Trisha Kane

JOINT SEWER BOARD
BILL LIST
JUNE 18, 2019

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	$	14,542.02
OPERATING FUND BILLS TO BE PAID:	$	39,859.32
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING.	$	913.66
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	$	3,009.00
TOTAL	$	58,324.00

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:		Amount:
4240	3766	Martin Energy Group	Generator	$	14,351.00
4020	3767	Menards	Bar Screen Carts	$	191.02
				$	-
				$	-
				$	-
				$	-
			TOTAL	$	14,542.02

OPERATING FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:		Amount:		
4000	3769	Equipment Replacement Fund	Payment into ER Fund	$	3,467.00		
4020	3768	Grainger	Thermal Overloads fir Aerators	$	226.02		
4020	3770	Core & Main	Chlorine	$	250.60		
4020	3771	Jani King	June	$	195.00		
4020	3772	Magruder	1" Minus	$	27.90		
4020	3773	Lakeland Oil Co. LLC	Gear Oil	$	878.25		
4170	3774	Alliance Water Resources, Inc.	June	$	24,966.00		
4175	3775	Ameren MO	11673321	$	9,328.34		
4175	3775	Ameren MO	98041275	$	123.68	$	9,452.02
4176	3776	Republic	June	$	232.47		
4020	3777	Menards	Drill Bit Set	$	19.99		
4020	3777	Menards	Elec Conduit & Fit	$	24.18	$	44.17
4150	3778	O'Reilly	2" Ball Hitch	$	29.99		
4176	3779	AT&T	Phone June	$	89.90		
			TOTAL	$	39,859.32		

EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:		Amount:
				$	-
4000	1030	Grainger	Pump for Pista Grit	$	913.66
			TOTAL	$	913.66

EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:		Amount:
4000	1031	Eastech Flow controls, Inc.	Replace RAS Flow Meter	$	3,009.00
			TOTAL	$	3,009.00

Invoice

Martin Energy Group Services, LLC
PO BOX 729
Tipton, MO 65081
660-458-7000

Invoice Number:	0180845-IN
Invoice Date:	5/20/2019
Invoice Due Date:	5/20/2019
Order Number:	0154939
Order Date	5/20/2019
Salesperson:	Mike Massolini
Customer Number:	JOISEW01

Sold To:

Joint Sewer Board
Lake of the Ozarks
Regional WWTP #1
PO Box 1985
Lake Ozark, MO 65049 United States

Ship To:

Lake of the Ozarks
Regional WWTP #1
#3 Anderson Rd.
Lake Ozark, MO 65049 United States

Confirm To:

Customer P.O.	Ship VIA	F.O.B.	Terms
			Net Upon Receipt

Item Code	Unit	Ordered	Shipped	Back Ordered	Price	Amount
700-0140220	EA	1.00	0.00	1.00	143,510.0000	0.00
Lake of the Ozarks WWTP #1 Genset -Diesel, 60Hz, 450 kWE-Standby Rating 850 Gallon Fuel Tank, Subbase, UL142 Compliant Engine Cooling - Radiator, 40C Ambient Green Steel Enclosure w/ Exhaust System ASCO Service Rated Transfer Switch Electronic Control, 1000 Amp, 3 Poles						
/MDOWNPAYMENT	EA	1.00	1.00	0.00	14,351.0000	14,351.00
10% Down Payment						

4240

Net Invoice:	14,351.00
Less Discount:	0.00
Freight:	0.00
Sales Tax:	0.00
Invoice Total: (USD)	14,351.00

Please Remit Payment To:

Martin Energy Group Services, LLC
PO BOX 729
Tipton, MO 65081

Sale in accordance with Martin Energy Group Services, LLC Conditions of Sale.
1.5% per month Finance Charges may apply on overdue invoices.

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

RECEIVED
MAY 2 0 2019

JOINT SEWER BOARD
#3 ANDERSON RD

LAKE OZARK
FAX # (573)

MO 65049

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

INVOICE # 72795

ACCOUNT : 32880271

TRANSACTION DATE : 05/14/19
TRANSACTION TIME : 133639
REGISTER NUMBER : 2
SIGNER :

TRANSACTION # : 8436
PURCHASE ORDER # : Gary
TYPE OF SALE : Charge Sale
CLAIM # : Gary

QUANTITY	SKU	DESCRIPTION	AMOUNT
2.00	2640636	HANDLES WHLBARROW TRUGRIP	39.98
2.00	2640630	DUAL WHEEL PARTS BOX	85.98
2.00	2640631	8 CU FT POLY TRAY	60.00

SUB-TOTAL: 185.96
TOTAL TAX: 0.00
PAYMENTS : 0.00
===========
TOTAL DUE: 185.96

REPLACEMENT BAR SCREEN CARTS

GL Acct#: 4020

Signature: Gary Hutchcraft

Date: 5/20/19

Gary Hutchcraft

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

RECEIVED
MAY 20 2019

JOINT SEWER BOARD
#3 ANDERSON RD

LAKE OZARK MO 65049
FAX # (573)

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

INVOICE # 72804 ACCOUNT : 32880271

TRANSACTION DATE : 05/14/19
TRANSACTION TIME : 152045
REGISTER NUMBER : 2
SIGNER :

TRANSACTION # : 8481
PURCHASE ORDER # : Gary
TYPE OF SALE : Charge Sale
CLAIM # : Gary

QUANTITY	SKU	DESCRIPTION	AMOUNT
1.00	6796871	1-1/4" DEEP FLANGE CHROME	3.99
1.00	6861062	3/4" BLACK CAP	1.07

SUB-TOTAL:	5.06
TOTAL TAX:	0.00
PAYMENTS :	0.00
	==========
TOTAL DUE:	5.06

FITTINGS FOR MENS URNAL

GL Acct#: 4020
Signature: Gary Hutchcraft
Date: 5/20/19

GRAINGER

808 N. CEDARBROOK AVE.
SPRINGFIELD, MO 65802-2522
www.grainger.com

ORIGINAL INVOICE

GRAINGER ACCOUNT NUMBER	887097807
INVOICE NUMBER	9182563412
INVOICE DATE	05/21/2019
DUE DATE	06/20/2019
AMOUNT DUE	226.02

PO NUMBER:	GARY HUTCHCRAFT
CALLER:	GARY HUTCHCRAFT
CUSTOMER PHONE:	(573) 365-0455
ORDER NUMBER:	1352261061
INCO TERMS:	FOB ORIGIN

BILL TO
MDG2019 00013478 1 SP 0560

JOINT SEWER BOARD
3 ANDERSON RD
LAKE OZARK, MO 65049-0000

RECEIVED
MAY 31 2019

Pay invoices online at:
www.grainger.com/invoicing
Sign up for paperless invoicing at:
www.grainger.com/paperlessinvoicing

THANK YOU! FEI NUMBER 36-1150280

FOR ANY QUESTIONS ABOUT THIS INVOICE OR ACCOUNT CALL 1-800-472-4643

PO LINE #	ITEM #	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL
		The following items were for: JOINT SEWER BOARD 3 SANDER RD LAKE OZARK MO 65049-5784			
	1H669	THERMAL UNIT,49 1 TO 61.2A MANUFACTURER # CC81.5 Delivery# 6433692857 Date: 05/21/2019 Carrier: UPS GROUND No. of pkgs: 0 Wt: 0.30 Trk#: 1Z6812730370732539 SHIPPED FROM: DC KANSAS CITY, MO - 002 11200 E. 210 HWY KANSAS CITY MO 64161-9370 THERMAL OVERLOADS FOR AERATORS GL Acct#: 4020 Signature: [signature] Date: 5/31/19	6	35.84	215.04

THIS PURCHASE IS GOVERNED EXCLUSIVELY BY GRAINGER'S TERMS OF SALE, INCLUDING: (I) DISPUTE RESOLUTION REMEDIES AND (II) CERTAIN WARRANTY AND DAMAGES LIMITATIONS AND DISCLAIMERS IN EFFECT AT THE TIME OF THE ORDER, WHICH ARE INCORPORATED BY REFERENCE HEREIN. GRAINGER'S TERMS OF SALE ARE AVAILABLE AT WWW.GRAINGER.COM. PRODUCT RETURN INSTRUCTIONS ARE AVAILABLE AT WWW.GRAINGER.COM/RETURNS

INVOICE SUB TOTAL	215.04
SHIPPING	10.98

These items are sold for domestic consumption. If exported, purchaser assumes full responsibility for compliance with US export controls. Diversion contrary to US law prohibited.

PAY THIS INVOICE; NO STATEMENT WILL BE SENT. PAYMENT TERMS NET 30 DAYS IN U.S. DOLLARS

AMOUNT DUE 226.02

PLEASE DETACH THIS PORTION AND RETURN WITH YOUR PAYMENT.

BILL TO:
JOINT SEWER BOARD
3 ANDERSON RD
LAKE OZARK, MO 65049 0000

REMIT TO:
GRAINGER
DEPT. 887097807
P.O. BOX 419267
KANSAS CITY, MO 64141 6267

887097807918256341210000226021000000010001098100000019062057

X

ACCOUNT NUMBER	DATE	INVOICE NUMBER	AMOUNT DUE
887097807	05/21/2019	9182563412	226.02

FOR COMMENTS OR CHANGE OF ADDRESS, ENTER INFORMATION ON REVERSE SIDE

CORE&MAIN

INVOICE

1830 Craig Park Court
St. Louis, MO 63146

Invoice #	K605397
Invoice Date	5/23/19
Account #	231225
Sales Rep	STEVEN BURKE
Phone #	573-348-1273
Branch # 138	Osage Beach, MO
Total Amount Due	$250.60

Remit To:
CORE & MAIN LP
PO BOX 28330
ST LOUIS, MO 63146

1056 1 MB 0.428 E0076X I0100 D4862697784 S2 P6426392 0001:0001

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

Shipped to:

CUSTOMER PICK-UP

RECEIVED MAY 31 2019

Thank you for the opportunity to serve you! We appreciate your prompt payment.

Date Ordered	Date Shipped	Customer PO #	Job Name	Job #	Bill of Lading	Shipped Via	Invoice #
5/22/19	5/22/19	WWPT	PLANT			WILL CALL	K605397

Product Code	Description	Quantity Ordered	Quantity Shipped	B/O	Price	UM	Extended Price
96CHL100	100# DRUM GRANULAR CHLORINE	1	1		250.60000	EA	250.60

FOR CLEANING CLARIFIER'S

GL Acct#: 4020
Signature: [signature]
Date: 5/31/19

Freight	Delivery	Handling	Restock	Misc.	

Subtotal:	250.60
Other:	0.00
Tax:	0.00
Invoice Total:	$250.60

Terms: NET 30

Ordered By: GARY

This transaction is governed by and subject to CORE & MAIN's standard terms and conditions, which are incorporated by reference and accepted. To review these terms and conditions, please visit: http://tandc.coreandmain.com/.

0001:0001

Jani-King The King of Clean

Remit To:
MAJESTIC FRANCHISING INC DBA JANI-KING COLUMBIA
14821 W. 95TH STREET
LENEXA KS 66215
(573) 442-8455

Invoice	
Date	Number
06/01/2019	CLM06190089
Due Date	Cust #
06/30/2019	022031
Invoice Amount	Amount Remitted
$ 195.00	

RECEIVED MAY 24 2019

Sold To:
JOINT SEWER BOARD
3 ANDERSON RD
LAKE OZARK MO 65049

For:
ALLIANCE WATER
3 ANDERSON RD
LAKE OZARK MO 65049

Make All Checks Payable To: MAJESTIC FRANCHISING INC DBA JANI-KING COLUMBIA
RETURN THIS PORTION WITH YOUR PAYMENT

MAJESTIC FRANCHISING INC DBA JANI-KING COLUMBIA
Commercial Cleaning Services
(573) 442-8455

Jani-King The King of Clean

Sold To:
JOINT SEWER BOARD
3 ANDERSON RD
LAKE OZARK MO 65049

For:
ALLIANCE WATER
3 ANDERSON RD
LAKE OZARK MO 65049

Invoice No	Date	Cust No	Slsmn No	PO Number	Franchisee	Due Date
CLM06190089	06/01/2019	022031			RJ ENTERPRISES, LLC	06/30/2019

Quantity	Description	Unit Price	Extended Price
1	MONTHLY CONTRACT BILLING AMOUNT FOR JUNE	195.00	195.00

GL Acct#: 4020
Signature: [signature]
Date: 5/24/19

To Pay Online Please Visit: https://quickclick.com/r/lcr7k
Invoices Paid Online Must Include 3% Admin Fee, No Greater Than $19.95

Make All Checks Payable To:
MAJESTIC FRANCHISING INC DBA JANI-KING COLUMBIA

Amount of Sale	$ 195.00
Sales Tax	$ 0.00
Total	$ 195.00

MAGRUDER
COMPANIES
PAVING LIMESTONE ASPHALT

Magruder Limestone
255 Watson Road
Troy, MO 63379
636-528-4180

INVOICE 58194

5/13/2019

JOIN001

JOINT SEWER BOARD
P. O. BOX 1985

LAKE OZARK, MO 65049

RECEIVED
JUN 10 2019

Ticket	Date	P.O.	Order	Location	Product	Qty	Material Rate	Material Amount	Freight Rate	Freight Amount	Fee Amount	Tax Amount	Total
21127420	5/8/2019			011	1" MINUS	4.77	5.85	27.90	0.00	0.00	0.00	0.00	27.90
Subtotal						4.77 Ton		27.90		0.00	0.00	0.00	27.90
Invoice Total						4.77 Ton		27.90		0.00	0.00	0.00	27.90

Total Invoice: 27.90

GL Acct#: 1020
Signature: [signature]
Date: 6/10/19

Page 1 of 1

EMERGENCY CONTACT
(573) 634-2436

ConocoPhillips

CUSTOMER'S INVOICE

LAKELAND OIL CO., L.L.C.

WHOLESALE

PHONE (573) 346-4545 FAX 346-3566

BOX 130, OSAGE BEACH, MISSOURI 65065

24082

6/7 2019

Sold to Joint Sewer Board

Address ________ Terms: ________

	Gals	Unit	Total
No Lead Gasoline			
Premium Gasoline			
Gasoline			
#2 Diesel Fuel			
#2 DYED DSL Non Taxable Use Only			
1 55 GAL. DRUM			
MOBIL GEAR 600 XP 320			878.25
Federal Gas Tax			
Federal Diesel Tax			
Missouri State Gas Tax			
Missouri State Diesel Tax			
City & Missouri Sales Tax			
AMOUNT OF INVOICE			
1 BBL DEPOSIT		20.00	
AMOUNT DUE			$878.25

RECEIVED
JUN 10 2019

GEAR OIL FOR AERATORS

GL Acct#: 4020

Signature: [signature]

Date: 6/10/19

All past due Accounts subject to 1 1/2% per month or 18% per year carrying charge.

GASOLINE NOT SOLD FOR ILLUMINATING PURPOSES.

Received Payment: [signature] Received Goods: $898.25

☐ THE UNDERSIGNED, as agent for LAKELAND OIL CO., L.L.C., the seller, hereby certifies that the purchaser of the motor fuel invoiced at the time of purchase expressly declared it as his intention to use such motor fuel for a purpose other than propelling motor vehicles upon the public highways of this state, and declared his intention to file a claim for refund of the tax included in the purchase price.

☐ This diesel fuel does not contain visible evidence of dye.

☐ The price of this diesel fuel does not include Federal Motor Fuel taxes.

☐ Dyed diesel fuel, non taxable use only, penalty for taxable use.

[signature] (Agent For Seller)

Alliance Water Resources, Inc.

Professional Water and Wastewater Operations

206 South Keene Street

Columbia, Missouri 65201

(573) 874-8080 Fax (573) 443-0833

INVOICE

Invoice No:	8384
Invoice Date:	1-Jun-19
Customer No:	20220
Terms:	30 days

SOLD TO

Lake Ozark/Osage Beach Joint Utility Board
c/o Karri Bell
City of Osage Beach
1000 City Parkway
Osage Beach, MO 65065

REFERENCE	DESCRIPTION		AMOUNT
	Wastewater Plant operating service for month of: Base Fee	Jun-2019	$24,966.00
		TOTAL DUE	$24,966.00

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

AMOUNT DUE	**$9,328.34**
Due Date	**07/01/2019**
Amount After Due Date	$9,468.27
Previous Statement	$4,849.70
Total Payments	$4,849.70

Payment Received. Thank You.

RECEIVED JUN 10 2019

Your electric rate decreased by approximately 8%. Your savings are noted as the Federal Tax Rate Reduction.

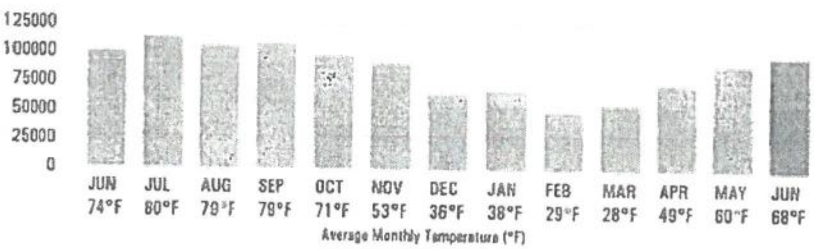
Current Detail for Statement 06/10/2019

Total Electric Charges	$9,328.34
Total Amount Due	**$9,328.34**

Stay informed about your energy usage anytime. Go to **AmerenMissouri.com** and create an account. It's simple and free!

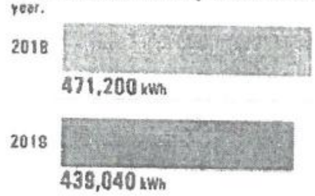
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using **6.8% less** than last year.



Usage from Jan-Jun for 2018 & 2019

48787 13073
00117 6135019 000230 000459 0001/0002

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

» See next page for service details.

Keep this portion for your records. Signature: [signature] Page 1 of 4

Date: 6/10/19

Please return this portion with your payment.

Ameren MISSOURI

☐ Check if you have address changes on back.

Amount Due	Due Date
$9,328.34	July 01, 2019
Delinquent Amount After Due Date	**Account Number**
$9,468.27	4580005832

Amount Enclosed $

>000117 6135019 0003 092134 10Z

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

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

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 05/07/2019 - 06/06/2019 (30 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
11673321	05/07 - 06/06	30	Total kWh	Actual	53423.0000	52808.0000	615.0000	160.0000	98400.0000
11673321	05/07 - 06/06	30	Peak kW	Actual	1.3820	0.0000	1.3820	160.0000	221.1200

Usage Summary

Total kWh	98400.0000	Peak kW	221.1000
Billing Demand	221.1000	Total Billing Demand	221.1000

Rate 3M Large General Service

DESCRIPTION	USAGE	UNIT		RATE	CHARGE
Demand Charge	221.10	kW	@	$ 5.40000000	$1,193.94
Energy Charge/Hours Used	33,165.00	kWh	@	$ 0.10580000	$3,508.86
Energy Charge/Hours Used	44,220.00	kWh	@	$ 0.07960000	$3,519.91
Energy Charge/Hours Used	21,015.00	kWh	@	$ 0.05350000	$1,124.30
Customer Charge					$95.07
Fuel Adjustment Charge	98,400.00	kWh	@	$-0.00176000	$-173.18
Energy Efficiency Program Charge	98,400.00	kWh	@	$ 0.00030000	$29.52
Energy Efficiency Investment Charge	98,400.00	kWh	@	$ 0.00492400	$484.53
Federal Tax Rate Reduction	98,400.00	kWh	@	$-0.00462000	$-454.61
				Total Service Amount	$9,328.34
				Total Electric Charges	$9,328.34

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
May 28, 2019	$4,849.70

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

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
LAKE OZARK, MO 65049

AMOUNT DUE	**$123.68**
Due Date	**07/01/2019**
Amount After Due Date	$125.54
Previous Statement	$164.03
Total Payments	$164.03

Payment Received. Thank You.

RECEIVED JUN 10 2019

Your electric rate decreased by approximately 6%. Your savings are noted as the Federal Tax Rate Reduction.

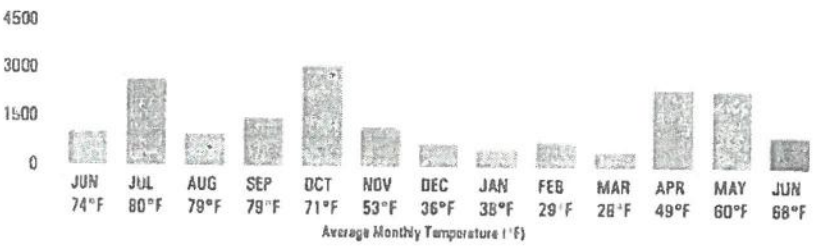
Current Detail for Statement 06/10/2019

Total Electric Charges	$123.68
Total Amount Due	**$123.68**

Stay informed about your energy usage anytime. Go to **AmerenMissouri.com** and create an account. It's simple and free!

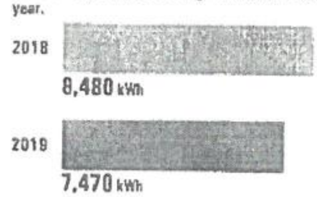
Electric Usage History

Electric Usage In Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using **11.9% less** than last year.



Usage from Jan-Jun for 2018 & 2019

13073 00295 6135019 000559 001117 0001/0002

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#: 4125

Signature: [signature]

Date: 6/10/19

» 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
$123.68	July 01, 2019
Delinquent Amount After Due Date	**Account Number**
$125.54	5580005920

Amount Enclosed $ ____________

>000295 6135019 0005 092139 10Z

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

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

30633000 00558000592000 000000123680 000000123680

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 05/07/2019 - 06/06/2019 (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	05/07 - 06/06	30	Total kWh	Actual	18824.0000	18731.0000	93.0000	10.0000	930.0000
98041275	05/07 - 06/06	30	Peak kW	Actual	4.5270	0.0000	4.5270	10.0000	45.2700

Usage Summary

Total kWh	930.0000

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

Threshold - Peak Demand

DESCRIPTION	USAGE	UNIT		RATE	CHARGE
Total Energy Charge	930.00	kWh	@	$ 0.11200000	$104.16
Customer Charge					$21.43
Fuel Adjustment Charge	930.00	kWh	@	$-0.00176000	$-1.64
Energy Efficiency Program Charge	930.00	kWh	@	$ 0.00010000	$0.09
Energy Efficiency Investment Charge	930.00	kWh	@	$ 0.00542000	$5.04
Federal Tax Rate Reduction	930.00	kWh	@	$-0.00581000	$-5.40
				Total Service Amount	$123.68
				Total Electric Charges	$123.68

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
May 28, 2019	$164.03

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

REPUBLIC SERVICES

35 N Frontage Road
Osage Beach MO 65065-433131

Customer Service (573) 346-3637
RepublicServices com/Support

Important Information
Thanks for being a loyal customer and for trusting us to handle your recycling and waste needs responsibly while protecting our Blue Planet

Account Number	3-0435-0010208
Invoice Number	0435-000627663
Invoice Date	May 20, 2019
Past Due on 05/20/19 - PAID 5/29/19 -	$143.09
Payments/Adjustments	$0.00
Current Invoice Charges	$232.47

Total Amount Due	Payment Due Date
$375.56	Past Due

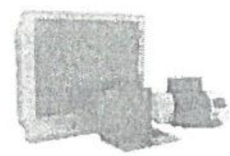
CURRENT INVOICE CHARGES

Description	Reference	Quantity	Unit Price	Amount
Alliance Water Resources Inc. #3 Anderson Road CSA C0074				
Lake Ozark, MO				
1 Waste Container 2 Cu Yd, 1 Lift Per 2 Weeks				
Non-Scheduled Service 05/09	Gary	1.0000	$67.41	$67.41
Pickup Service 06/01-06/30			$102.77	$102.77
Administrative Fee				$5.95
Total Fuel/Environmental Recovery Fee				$56.34
CURRENT INVOICE CHARGES, Due by June 09, 2019				$232.47

RECEIVED
MAY 28 2019

HAD EXTRA DUMP DUE TO EXCESS GREASE

GL Acct#: 4176
Signature: Gary Hutchison
Date: 5/28/19



Past Due	30 Days	60 Days	90+ Days
	$143.09	$0.00	$0.00

REPUBLIC SERVICES

35 N Frontage Road
Osage Beach MO 65065-433131

Please Return This Portion With Payment

Total Amount Due	$232.47 ~~$375.56~~
Payment Due Date	~~Past Due~~
Account Number	3-0435-0010208
Invoice Number	0435-000627663

Total Enclosed

Return Service Requested

072867 1 AV 0 383 338711

JOINT SEWER BOARD
C/O ALLIANCE WATER RESOURCES
PO BOX 1985
LAKE OZARK MO 65049-1985

Make Checks Payable To

REPUBLIC SERVICES #435
PO BOX 9001099
LOUISVILLE KY 40290-1099

304350010208000000627663000023247000037556 7

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

JOINT SEWER BOARD
#3 ANDERSON RD

LAKE OZARK MO 65049
FAX # (573)

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

INVOICE # 74118 ACCOUNT : 32880271

TRANSACTION DATE	: 06/03/19	TRANSACTION #	: 6314
TRANSACTION TIME	: 143321	PURCHASE ORDER #	: garry
REGISTER NUMBER	: 8	TYPE OF SALE	: Charge Sale
SIGNER :		CLAIM #	: garry

QUANTITY	SKU	DESCRIPTION	AMOUNT
1.00	2361532	STEP DRILL BIT SET 2PC	19.99

RECEIVED
JUN 1 0 2019

SUB-TOTAL:	19.99
TOTAL TAX:	0.00
PAYMENTS :	0.00
	===========
TOTAL DUE:	19.99

KNOCKOUT DRILL BIT
FOR INSTALLING NEW FLOW METER

GL Acct#: 4020
Signature:
Date: 6/10/19

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

RECEIVED
JUN 1 0 2019

JOINT SEWER BOARD
#3 ANDERSON RD

LAKE OZARK MO 65049
FAX # (573)

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

INVOICE # 73329

ACCOUNT : 32880271

TRANSACTION DATE : 05/22/19
TRANSACTION TIME : 122335
REGISTER NUMBER : 4
SIGNER :

TRANSACTION # : 2156
PURCHASE ORDER # : gary
TYPE OF SALE : Charge Sale
CLAIM # : gary

QUANTITY	SKU	DESCRIPTION	AMOUNT
1.00	3654181	1/2"X10' LQDT MTL COND	15.70
4.00	3654073	1/2" LFNC STR 2-PC CNCTR	8.48

SUB-TOTAL:	24.18
TOTAL TAX:	0.00
PAYMENTS :	0.00
	===========
TOTAL DUE:	24.18

ELECTRICAL CONDUIT & FITTINGS
FOR PISTA GRIT SYSTEM

GL Acct#: 4020
Signature: [signature]
Date: 6/10/19

[signature]

O'Reilly FIRST CALL

DEDICATED TO THE PROFESSIONAL

Store 4046, 4005 OSAGE BEACH PKWY,
OSAGE BEACH, MO 65065 (573) 348-2725

Bill To:

JOINT SEWER BOARD
PO BOX 1985
LAKE OZARK, MO 65049
(573) 365-0455

Invoice	4046-221845
Sale Type	CHARGE SALE
Date	06/06/2019 8:11 AM
Ship Via	
PO Number	

Counter #	Customer Account	Ordered By	Special Instructions
29123	2643210	gary	

Qty	Line	Item Number	Description	Warr	Unit	Tax	List	Net	Extended
1	REE	21556	TOWING KIT	90	KT	N	59.31	29.99	29.99
		Special Offer. 1 @ 29.99							

RECEIVED
JUN 06 2019

2" BALL HITCH FOR PICKUP

GL Acct#: 4150
Signature: Gary Hulchway
Date: 6/6/19

1 Item

Save 10% on complete A/C compressor packages! See First Call Online.

Sub-Total	29.99
Sales Tax	0.00
Total	29.99

X
Customer Signature

WWW.FIRSTCALLONLINE.COM

Please visit www.firstcallonline.com/warranty for warranty details 1/1

WE APPRECIATE YOUR BUSINESS!

Remit To PO BOX 9464, SPRINGFIELD, MO 65801-9464

JOINT SEWER BOARD
ALLIANCE WATER RESOURC
PO BOX 1985
LAKE OZARK MO 65049 - 1985

Account Number 573 365 0455 579 8
Billing Date May 29, 2019

Web Site att.com

AT&T

Monthly Statement

RECEIVED
JUN 10 2019

Bill-At-A-Glance

Previous Bill	89.83
Payment Received 5-25 Thank you!	89.83CR
Adjustments	.00
Balance	.00
Current Charges	89.90
Total Amount Due	**$89.90**
Amount Due in Full By	Jun 27, 2019

Billing Summary

Online, att.com/myatt	Page	
Plans and Services	1	78.38
1 800 321-2000		
Service Changes		
1 800 321-2000		
Repair Services		
1 800 288-8313		
AT&T Long Distance	1	11.52
1 800 321-2000		
Total Current Charges		89.90

GL Acct#: 4176
Signature: Gary Adulethraj
Date: 6/10/19

News You Can Use Summary

- PREVENT DISCONNECT
- BUSINESS RATE CHANGE
- COST ASSESSMENT CHRG
- LONG DIST PROVIDERS
- WHITE PAGE (WP) DIR
- FEE DESCRIPTIONS

See "News You Can Use" for additional information

Return bottom portion with your check in the enclosed envelope.

Plans and Services

Monthly Service - May 29 thru Jun 28	
1 Bus Local Calling Unlimited B	55.00
Business Line (Measured Rate)	
Caller ID Name Delivery	
Caller ID Number Delivery	
Extended Area Service	
Unlimited Local Usage	
2 Mileage-Outside Base Rate Area	1.94
Total Monthly Service	56.94
Surcharges and Other Fees	
3 Federal Subscriber Line Charge	5.56
4 Special E911 Tax	5.24
5 Federal Universal Service Fee	1.04
6 Relay Missouri Surcharge	.04
7 MO Universal Service Fund	.06
8 Cost Assessment Charge	4.35
Total Surcharges and Other Fees	16.29
Taxes	
9 Federal	1.60
10 State and Local	3.55
Total Taxes	5.15
Total Plans and Services	**78.38**

AT&T Long Distance

Important Information

Message Regarding Terms & Conditions:
To view your Terms & Conditions for AT&T Long Distance access www.att.com/servicepublications or call AT&T at the toll free number on your bill.

Invoice Summary	
(as of May 16, 2019)	
Current Charges	
Service Charges	10.00
Credits and Adjustments	.00
Call Charges	.00
Surcharges and Other Fees	1.21
Taxes	.31
Total Invoice Summary	11.52

Local Services provided by AT&T Arkansas, AT&T Kansas, AT&T Missouri, AT&T Oklahoma, or AT&T Texas based upon the service address location.

GO GREEN - Enroll in paperless billing

Payment Received 5-25 Thank you!	89.63CR
Adjustments	.00
Balance	.00
Current Charges	89.90
Total Amount Due	**$89.90**
Amount Due in Full By	Jun 27, 2019

Billing Summary

Online: att.com/myatt	Page	
Plans and Services 1 800 321-2000	1	78.38
Service Changes: 1 800 321-2000		
Repair Services: 1 800 286-8313		
AT&T Long Distance 1 800 321-2000	1	11.52
Total Current Charges		**89.90**

News You Can Use Summary

- PREVENT DISCONNECT
- BUSINESS RATE CHANGE
- COST ASSESSMENT CHRG
- LONG DIST PROVIDERS
- WHITE PAGE (WP) DIR.
- FEE DESCRIPTIONS

See "News You Can Use" for additional information

Monthly Service May 29 thru Jun 28

1 Bus Local Calling Unlimited B Business Line (Measured Rate) Caller ID Name Delivery Caller ID Number Delivery Extended Area Service Unlimited Local Usage	55.00
2. Mileage-Outside Base Rate Area	1.84
Total Monthly Service	56.84

Surcharges and Other Fees

3. Federal Subscriber Line Charge	5.58
4. Special E911 Tax	5.24
5. Federal Universal Service Fee	1.04
6. Relay Missouri Surcharge	.04
7. MO Universal Service Fund	.06
8. Cost Assessment Charge	4.35
Total Surcharges and Other Fees	16.29

Taxes

9. Federal	1.60
10. State and Local	3.55
Total Taxes	5.15

Total Plans and Services 78.38

AT&T Long Distance

Important Information

Message Regarding Terms & Conditions.
To view your Terms & Conditions for AT&T Long Distance, access www.att.com/servicepublications or call AT&T at the toll free number on your bill.

Invoice Summary
(as of May 16, 2019)

Current Charges	
Service Charges	10.00
Credits and Adjustments	.00
Call Charges	.00
Surcharges and Other Fees	1.21
Taxes	.31
Total Invoice Summary	11.52

Local Services provided by AT&T Arkansas, AT&T Kansas, AT&T Missouri, AT&T Oklahoma, or AT&T Texas based upon the service address location.

GO GREEN - Enroll in paperless billing.

Return bottom portion with your check in the enclosed envelope

Total Amount DUE BY Jun 27, 2019 **$89.90**

AT&T

Billing Date May 29, 2019

Account Number 573 365-0455 579 8
Please include your account number on your check

JOINT SEWER BOARD
%ALLIANCE WATER RESOURC
PO BOX 1935
LAKE OZARK MO 65049 1935

Make check payable to
AT&T
PO BOX 5001
CAROL STREAM IL 60197-5001

9750 57336504555798 5000000000000 17701000000000000000008990

Total Monthly Service Charges	10.00
Total Service Charges	10.00

Call Charges - Apr 15th thru May 14th
Calls for 573-365-0455

Domestic

Item No.	Date	Time	Place Called	Number	Code	Min	
2.	4-22	936A	JEFFERSNCY MO	573 680-3957	D	6:42	.00
3.	4-22	1149A	JEFFERSNCY MO	573 680-3957	D	0:54	.00
4.	5-01	134P	JEFFERSNCY MO	573 632-4253	D	0:48	.00
5.	5-06	230P	STANLEY KS	913 563-1407	D	2:30	.00
6.	5-08	847A	JEFFERSNCY MO	573 680-3957	D	1:18	.00
7.	5-08	926A	TROY MO	636 528-4180	D	2:42	.00
8.	5-08	945A	TROY MO	636 528-8928	D	2:38	.00
9.	5-08	314P	SPRINGFLD MO	417 831-4059	D	17:06	.00
10.	5-08	332P	SPRINGFLD MO	417 831-4059	D	18:06	.00
11.	5-09	716A	SPRINGFLD MO	417 831-4059	D	3:06	.00
12.	5-12	555P	JEFFERSNCY MO	573 645-0700	D	0:30	.00
13.	5-12	558P	JEFFERSNCY MO	573 645-0700	D	0:30	.00
14.	5-12	613P	JEFFERSNCY MO	573 645-0700	D	0:30	.00
15.	5-12	614P	JEFFERSNCY MO	573 645-0700	D	0:30	.00
16.	5-12	615P	JEFFERSNCY MO	573 353-1560	D	0:30	.00
17.	5-12	615P	JEFFERSNCY MO	573 645-0700	D	0:36	.00
18.	5-12	637P	JEFFERSNCY MO	573 645-0700	D	0:30	.00
19.	5-12	638P	JEFFERSNCY MO	573 353-1560	D	1:24	.00
Subtotal Domestic Calls for 573-365-0455							.00

Total Domestic Calls for 573-365-0455	.00
Total Calls for 573-365-0455	.00
Total Call Charges	.00

Surcharges and Other Fees

Description	
20. Federal Regulatory Fee	.34
21. Federal Universal Service Fee	.86
22. Missouri Universal Service Fund	01
Total Surcharges and Other Fees	1.21

Taxes

Description	
23. Federal Tax	.00
24. State and Local Taxes	.31
Total Taxes	.31

PREVENT DISCONNECT
Thank you for being a valued customer. Please be aware that all charges must be paid each month to keep your account current and prevent collection activities. We are required to inform you that certain charges for basic service such as your telephone line, surcharges and fees, and long distance MUST be paid in order to prevent interruption of basic local service. These charges are already included in the Total Amount Due and are $89.90. Also, neglecting to pay for other charges such as voice mail, InLine®, wireless, and Internet may result in those services being interrupted.

LONG DIST. PROVIDERS
Our records indicate that you have selected AT&T Long Distance or a company that resells their services as your primary local toll carrier and AT&T Long Distance or a company that resells their services as your primary long distance carrier. Please contact us if this does not agree with your records.

BUSINESS RATE CHANGE
Effective August 1, 2019, the monthly rate for Single Line Measured will increase to $193.00. For details on money saving discount plans, please call the number on your bill.

WHITE PAGE (WP) DIR.
Your AT&T WP directory may now be published every 14 months instead of annually. Where available, you can request your free copy of your directory by visiting www.mydirectories.yp.com or calling 877.243.8339. Questions, please call us at the toll free number on your bill.

COST ASSESSMENT CHRG
AT&T charges you this monthly per line amount to recover its ongoing costs incurred for property taxes and supporting the administration of local number portability, a government program that enables customers to retain their telephone number when changing service providers. This fee is not a tax or charge that the government requires AT&T to collect from its customers.

FEE DESCRIPTIONS
The Administrative Expense Fee recovers a portion of AT&T's internal costs associated with the Federal Communications Commission's Universal Service Fund and related programs. The Federal Regulatory Fee recovers amounts paid to the federal government for regulatory costs and telecommunications services for the hearing impaired, and costs associated with local number portability administration. These fees are not taxes or charges that the government requires AT&T to collect from its customers

2390.001 008822 01 02 0000000 NNNNNNNY 017643.017643

2390 1 46 8822 1 AV 0.383 HK
JOINT SEWER BOARD
%ALLIANCE WATER RESOURC
PO BOX 1985
LAKE OZARK MO 65049-1985

GRAINGER.

808 N. CEDARBROOK AVE.
SPRINGFIELD, MO 65802-2522
www.grainger.com

ORIGINAL INVOICE

GRAINGER ACCOUNT NUMBER	887097807
INVOICE NUMBER	9170134812
INVOICE DATE	05/09/2019
DUE DATE	06/08/2019
AMOUNT DUE	913.66

PO NUMBER:	GARY HUTCHCRAFT
CALLER:	GARY HUTCHCRAFT
CUSTOMER PHONE:	(573) 365-0455
ORDER NUMBER:	1351074201
INCO TERMS:	FOB ORIGIN

BILL TO
MDG2019 00013240 1 SP 0560

JOINT SEWER BOARD
3 ANDERSON RD
LAKE OZARK, MO 65049-0000

RECEIVED
MAY 2 0 2019

Pay invoices online at:
www.grainger.com/invoicing
Sign up for paperless invoicing at:
www.grainger.com/paperlessinvoicing

THANK YOU ! FEI NUMBER 36-1150280

FOR ANY QUESTIONS ABOUT THIS INVOICE OR ACCOUNT **CALL 1-800-472-4643**

PO LINE #	ITEM #	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL
		The following items were for: JOINT SEWER BOARD 3 ANDERSON RD LAKE OZARK MO 65049-0000			
	5KA94	PISTON AIR COMPRESSOR/VACUUM PUMP,1/2HP MANUFACTURER # 4LCB-251-M450X Delivery# 6432432322 Date: 05/09/2019 Carrier: UPS GROUND No. of pkgs: 0 Wt: 36.60 Trk#: 1Z6812730370226309 SHIPPED FROM: DC KANSAS CITY, MO - 002 11200 E. 210 HWY KANSAS CITY MO 64161-9370 REPLACEMENT VAC PUMP FOR PISTA GRIT GL Acct#: ~~4000~~ 4020 Signature: Gary Hutchcraft Date: 5/20/19	1	888.89	888.89

THIS PURCHASE IS GOVERNED EXCLUSIVELY BY GRAINGER'S TERMS OF SALE, INCLUDING (I) DISPUTE RESOLUTION REMEDIES, AND (II) CERTAIN WARRANTY AND DAMAGES LIMITATIONS AND DISCLAIMERS IN EFFECT AT THE TIME OF THE ORDER, WHICH ARE INCORPORATED BY REFERENCE HEREIN GRAINGER'S TERMS OF SALE ARE AVAILABLE AT WWW.GRAINGER.COM. PRODUCT RETURN INSTRUCTIONS ARE AVAILABLE AT WWW.GRAINGER.COM/RETURNS.

INVOICE SUB TOTAL	888.89
SHIPPING	24.77

These items are sold for domestic consumption. If exported, purchaser assumes full responsibility for compliance with US export controls. Diversion contrary to US law prohibited.

PAY THIS INVOICE; NO STATEMENT WILL BE SENT. PAYMENT TERMS NET 30 DAYS IN U.S. DOLLARS.

AMOUNT DUE 913.66

PLEASE DETACH THIS PORTION AND RETURN WITH YOUR PAYMENT.

BILL TO:
JOINT SEWER BOARD
3 ANDERSON RD
LAKE OZARK, MO 65049-0000

REMIT TO:
GRAINGER
DEPT. 887097807
P.O. BOX 419267
KANSAS CITY, MO 64141-6267

8870978079170134812100009136610000000100024771000000190608894

X

ACCOUNT NUMBER	DATE	INVOICE NUMBER	AMOUNT DUE
887097807	05/09/2019	9170134812	913.66

FOR COMMENTS OR CHANGE OF ADDRESS, ENTER INFORMATION ON REVERSE SIDE.

Eastech Flow Controls, Inc.
4250 S 76th E Ave
Tulsa, OK 74145
Ph: 918-664-1212
Fx: 918-664-8494

Invoice No 0000020380

Customer 001471

Bill to :

JOINT SEWER BOARD
P O BOX 1985
LAKE OZARK MO 65049
UNITED STATES

Sold to :

ALLIANCE WATER RESOURCES
P O BOX 1985
LAKE OZARK MO 65049
UNITED STATES

RECEIVED
MAY 30 2019

Phone (573)365-0455

Customer PO Number	Invoice Date	Terms	FOB	Ship Via	Salesperson
05232019/GARY	05/29/2019	NET 30	TULSA OK	UPS	082

Item	Part / Rev / Description / Details	Quantity	Unit Price	Discount	Extended Price
000001	700001-0001 Rev 000 U/M EA UF REPAIR MATERIALS RMA# 8435 SO# 511865 CUSTOMER DECIDES TO PURCHASE NEW V2220 WITH FB5A30' OF CABLE. PLEASE PROGRAM EXACTLY AS EXISTING V2220. Packing List No/Item No: 052320 19/GARY Sales Order No: 520135 Customer PO No:	1.00000	0.00000	0.00	0.00
000002	V2220--STD-FB5A30------F Rev NS U/M EA VANTAGE 2220 W/DUAL FB5 30FT CABLES EXTENDED DESCRIPTION: VANTAGE 2220 - ULTRASONIC TIME OF FLIGHT LEVEL/FLOW METER. ELECTRONICS HOUSED IN NEMA 4 - 4X ENCLOSURE WITH LCD BACK LIGHTED DISPLAY, TWO 4-20MA OUTPUT, ONE RS-232 SERIAL INTERFACE, ONE RS-485 SERIAL INTERFACE, BUILT IN DATA LOGGER AND DOWN LOAD SOFTWARE. 2EA. FB5 - ULTRASONIC TRANSDUCERS WITH 25FT RANGE AND 30FT CABLE AND STAINLESS STEEL MOUNTING BRACKETS REPLACES S.O. 511865	1.00000	2,970.00000	0.00	2,970.00

SEE NEXT PAGE

CUSTOMER COPY

Authorized Signature

Eastech Flow Controls, Inc.
4250 S 76th E Ave
Tulsa, OK 74145
Ph: 918-664-1212
Fx: 918-664-8494

Invoice No 0000020380

Customer 001471

Bill to :

JOINT SEWER BOARD
P O BOX 1985
LAKE OZARK MO 65049
UNITED STATES

Sold to :

ALLIANCE WATER RESOURCES
P O BOX 1985
LAKE OZARK MO 65049
UNITED STATES

Phone (573)365-0455

Customer PO Number	Invoice Date	Terms	FOB	Ship Via	Salesperson
05232019/GARY	05/29/2019	NET 30	TULSA OK	UPS	082

Item	Part / Rev / Description / Details	Quantity	Unit Price	Discount	Extended Price
	Packing List No/Item No: 019854/000002 Sales Order No: 520135 Customer PO No. 05232019/GARY				
000030	SHIPPING Rev NS Shipping/Freight Charge, Ref Shipper No 019854 Shipped on 05/28/2019	1.00000	39.00000	0.00	39.00
			Total Item Price		2,970.00
	SHIPPED TO ADDRESS: ALLIANCE WATER RESOURCES #3 ANDERSON RD. LAKE OZARK MO 65049 UNITED STATES		Shipping & Handling		39.00
			Sales Tax		0.00
			Total Inv Price		US$ 3,009.00
	Please pay balance due by Friday June 28 2019.		REPLACEMENT RAS FLOW METER		
		GL Acct#:	4000		
		Signature:	[signature]		
		Date:	5/30/19		

CUSTOMER COPY

Authorized Signature

MONTH-TO-DATE AND YEAR-TO-DATE
REVENUE/BUDGET ANALYSIS
5/31/2019

Account Number	Account Name	2017 Actual	2018 Actual	2019 Budget	2019 Actual as of 5/31/2019	2019 May Revenue	Percent YTD
3020	Osage Beach	478,614.41	480,784.67	478,500.00	198,323.03	39,434.13	41%
3010	Lake Ozark	71,385.58	69,215.30	71,500.00	30,843.63	6,399.20	43%
3030	Misc.	0.00	1,485.00	0.00	0.00	0.00	
3100	Interest	781.57	1,484.82	400.00	921.85	201.71	230%
3060	Waste Haulers' Fee	30,500.00	25,780.00	30,000.00	9,380.00	1,020.00	31%
	Total Operating Fund	581,281.56	578,749.79	580,400.00	239,468.51	47,055.04	41%
	E/R Fund Income	2,319.07	4,281.74	3,000.00	2,086.86	108.99	70%
	TOTAL INCOME	583,600.63	583,031.53	583,400.00	241,555.37	47,164.03	41%

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MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
5/31/2019

Account Number	Account Name	2017 Acutal	2018 Acutal	2019 Budget	2019 Actual as of 5/31/2019	2019 May Expenses	Percent YTD
4000	Equipment Replace Fund	41,604.17	41,604.17	41,604.00	17,335.00	3,467.00	42%
4020	*Maintenance & Repair	129,789.11	9,713.86	122,000.00	83,326.56	1,499.93	68%
4140	Insurance	17,144.00	18,475.25	19,030.25	18,624.00	0.00	98%
4150	Vehicle Repair/Maint	12,047.61	3,887.47	8,000.00	490.87	178.70	6%
4160	Haulers Fees to Contracti	8,000.00	8,000.00	0.00	0.00	0.00	
4170	Contract Management	311,229.84	319,010.64	299,592.00	124,830.00	24,966.00	42%
4175	Electric	69,261.90	79,533.37	80,000.00	19,475.77	5,013.73	24%
4176	Utilities Misc.	0.00	0.00	5,000.00	708.43	232.92	14%
4190	Bank Charges	24.35	24.00	80.00	40.80	5.00	0%
4200	Audit	2,200.00	2,300.00	2,400.00	0.00	0.00	0%
4220	Professional Service	1,200.00	0.00	0.00	0.00	0.00	0%
4240	Capital Purchases	0.00	0.00	152,000.00	14,351.00	14,351.00	9%
	Totals	592,500.98	482,548.76	729,686.25	279,182.43	49,714.28	38%
	**E/R Expenses	7,554.68	42,782.61	96,500.00	7,367.41	913.66	8%
	TOTAL EXPENSES	600,055.66	525,331.37	826,186.25	286,549.84	50,627.94	35%

Equipment & Replacement

Rebuild Ducking Skimmer Arm	5,000.00	
Replace BOD & Ammonia probes	2,000.00	
Replace grit concatrator, volute & cart for pista	15,000.00	X
Replace wooden doors	2,000.00	
Replace impellers for RAS pumps	7,500.00	
Replace LED parking lot light	10,000.00	
Replace electric panel & pump	15,000.00	
Replace electric panel in RAS	40,000.00	
	96,500.00	

***Vehicle Repair/Maint

Vehicle Maintenance	8,000.00
	8,000.00

*Maintenance & Repair

Auto Dialer Yrly Software Fee	500.00
Effluent Testing for Permit Renewal	1,500.00
Normal Maintenance	8,000.00
UV Spare Parts	8,000.00
Road and parking lot main	4,000.00
#2 Aeration Basin repair valves lab testing	100,000.00
Sandblast & paint Clarifier #3	-
CARRYOVER 2018 $68,900	-
	-
	122,000.00

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OPERATING FUND INCOME AND EXPENSE SUMMARY
5/31/2019

Beginning Balance	**336,432.24**
Income - Osage Beach	39,434.13
Income - Lake Ozark	6,399.20
Income - Other	-
Income - Waste Haulers' Fees	1,020.00
Interest - Checking	18.66
Income - CD Interest	183.05
Transfers From E/R Fund	-
Transfers to E/R Fund	(3,467.00)
Expenses	(46,357.83)
Ending Fund Balance	**333,662.45**
Central Bank - NOW Acct.	131,832.45
	-
CD First Bank of the Lake, 11/19 #101318432	101,830.00
CD Central Bank, 1/20 #151763	100,000.00
	-
Outstanding Checks:	-
	333,662.45

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
5/31/2019

Beginning Balance	**535,430.74**
Interest - Checking	108.99
Income - CD Interest	-
Transfers to E/R Fund	3,467.00
Income - Miscellaneous	-
Expenses	(913.66)
Ending Fund Balance	**538,093.07**
First Bank of the Lake - Money Mkt.	130,336.02
CD Providence Bank, 7/19 #1268880	203,934.35
CD First Bank of the Lake, 11/19 #101318431	100,000.00
CD First Bank of the Lake, 04/20 #101318430	103,822.70
	-
Outstanding Checks:	-
	538,093.07

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CHECK REGISTER - JOINT SEWER BOARD OPERATION FUND

	reconciled balance 3/31/19				**191,587.27**
3738	Pace Analytical	X	650.00		190,937.27
3739	Republic Services	X	142.76		190,794.51
3740	Jani-King	X	195.00		190,599.51
3741	Equipment Replacement Fund	X	3,467.00		187,132.51
3742	Fastenal Co	X	547.15		186,585.36
3743	John Henry Foster	X	2,275.69		184,309.67
3744	Landco Enterprises	X	68,900.00		115,409.67
3745	Menards	X	260.76		115,148.91
3746	O'Reilly Auto	X	110.55		115,038.36
3747	Clark Tire Co.	X	72.00		114,966.36
3748	Alliance Water Resources, Inc.	X	24,966.00		90,000.36
3749	AT&T	X	84.23		89,916.13
3750	Ferrellgas	X	43.26		89,872.87
3751	Ameren MO	X	4,250.93		85,621.94
	Two signature verification chg.	X	4.00		85,617.94
	Check Order	X	24.80	-	85,593.14
	Deposit LO	X		6,242.31	91,835.45
	Deposit OB	X		39,591.02	131,426.47
	Deposit	X		400.00	131,826.47
	Deposit	X		440.00	132,266.47
	Deposit	X		2,020.00	134,286.47
	Interest	X		205.22	134,491.69
	reconciled balance 4/30/19				**134,491.69**
3752	Equipment Replacement Fund	X	3,467.00		131,024.69
3753	Fastenal Co	X	173.21		130,851.48
3754	GLW	X	280.00		130,571.48
3755	Jani-King	X	195.00		130,376.48
3756	John Henry Foster	X	77.12		130,299.36
3757	Municpal Equipment Co.	X	194.44		130,104.92
3758	O'Reilly Auto	X	112.88		129,992.04
3759	USA Blue Book	X	276.26		129,715.78
3760	Crown Power & Equip	X	178.70		129,537.08
3761	Alliance Water Resources, Inc.	X	24,966.00		104,571.08
3762	Ameren MO	X	4,849.70		99,721.38
3763	Ameren MO	X	164.03		99,557.35
3764	AT&T	X	89.83		99,467.52
3765	Republic Services	X	143.09		99,324.43
3766	Martin Energy Group Serices, LLC	X	14,351.00		84,973.43
3767	Menards	X	191.02		84,782.41
			-		84,782.41
	Two signature verification chg.	X	5.00		84,777.41
	Deposit LO	X		6,399.20	91,176.61
	Deposit OB	X		39,434.13	130,610.74
	Deposit	X		1,020.00	131,630.74
	Interest	X		201.71	131,832.45
	reconciled balance 5/31/19				**131,832.45**

EN

Central Bank
of Lake of the Ozarks
MEMBER FDIC
P.O. Box 4500, Jefferson City, MO 65102
(573) 348-2761
RETURN SERVICE REQUESTED

Effective July, 1 2019, your debit card will no longer come with certain insurance benefits. Visit centralbank.net/gtb-updated for details.

LAKE OZARK OSAGE BEACH JOINT SEWER
TREATMENT PLANT BOARD
LAKE OZARK OSAGE BEACH JOINT SEWER TRMT
1000 CITY PKWY
OSAGE BEACH MO 65065-3058

Period	Page
05/01/2019 - 05/31/2019	1 of 4

Web Address
www.centralbank.net

M
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Your Financial Summary on May 31, 2019

		Bank Deposits		Totals
Bank Deposit Accounts:				
Checking	$	131,832.45		
Certificates of Deposit	$	100,000.00		
Bank Deposit Total			$	231,832.45
Total Assets:	$	231,832.45	$	231,832.45

Detailed Explanation of Account Balances and Other Assets

Basic Plus Interest Checking

No. 000007297 Beginning Balance April 30, 2019 $ 134,602.24

Deposits

May20	Deposit		6,399.20
May20	Deposit		39,434.13
May21	CD Interest	000151763	183.05
May22	Deposit		1,020.00
May31	Interest Earned		18.66

Total +$ 47,055.04

Checks

Check No.	Date Paid	Amount	Check No.	Date Paid	Amount
3746	May06	110.55	3759	May30	276.26
3752	May23	3 467.00	3760	May29	178.70
3753	May29	173.21	3761	May29	24,966.00
3754	May31	280.00	3762	May29	4,849.70
3755	May28	195.00	3763	May29	164.03
3756	May28	77.12	3764	May29	89.83
3757	May30	194.44	3766	May28	14,351.00
3758	May28	112.88			

Total -$ 49,485.72

Withdrawals and other charges

Date	Type	Transaction Description	Amount
May01	04/2019 TWO SIGNATURE VERI		5.00
May28	MENARDS LAKE OZA8662377650 3767		191.02
May30	Allied Waste SvcCHECK PYMT 3765		143.09

Total -$ 339.11

CHECK REGISTER - JOINT SEWER BOARD EQUIPMENT REPLACEMENT FUND

	reconciled balance 3/31/19				**124,097.04**
	Interest	X		109.65	124,206.69
	Deposit	X		3,467.00	127,673.69
	reconciled balance 4/30/19				**127,673.69**
1030	Grainger	X	913.66		126,760.03
	Interest	X		108.99	126,869.02

FIRST BANK OF THE LAKE

4558 Osage Beach Pkwy, Suite 100
Osage Beach, MO 65065
(573) 348-2265

536 00010 01
ACCOUNT:
DOCUMENTS: 2

05/31/2019

00147 3342227 1OZ ATM 608.160 1.4

LAKE OZARK-OSAGE BEACH JOINT SEWER
TREATMENT PLANT BOARD
1000 CITY PKWY
OSAGE BEACH MO 65065-3058

First Bank of the Lake takes the security of our client's financial accounts very seriously. Due to a global rise in identity theft and and online fraud, we are now offering the ability to add secure access codes and security questions to your account information. If you would like to add this additional layer of security to your accounts with us, please call us at 573-348-2265.

MONEY MARKET ACCOUNT ACCOUNT SINESS MONEY MARKET)

LAST STATEMENT 04/30/19	127,673.69
2 CREDITS	3,575.99
1 DEBITS	913.66
THIS STATEMENT 05/31/19	130,336.02

DEPOSITS

REF #	DATE	AMOUNT	REF #	DATE	AMOUNT	REF #	DATE	AMOUNT
	05/22	3,467.00						

OTHER CREDITS

DESCRIPTION	DATE	AMOUNT
INTEREST	05/31	108.99

CHECKS

CHECK #	DATE	AMOUNT	CHECK #	DATE	AMOUNT	CHECK #	DATE	AMOUNT
1030	05/24	913.66						

I N T E R E S T

AVERAGE LEDGER BALANCE:	128,556.29	INTEREST EARNED:	108.99
AVERAGE AVAILABLE BALANCE:	128,332.61	DAYS IN PERIOD:	31
INTEREST PAID THIS PERIOD:	108.99	ANNUAL PERCENTAGE YIELD EARNED:	1.00%
INTEREST PAID 2019:	640.76		

NOTICE: SEE REVERSE SIDE FOR IMPORTANT INFORMATION

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

Alliance WATER RESOURCES®
Professional Water and Wastewater Operations

REPORT OF OPERATIONS

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

Month of May 2019

Submitted by Alliance Water Resources, Inc. for the

June 2019

Joint Sewer Board Meeting

SUMMARY OF FACILITY OPERATION

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

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

PLANT EFFLUENT QUALITY

	BOD mg/l	TSS mg/l	pH	E.coli Coliform Colonies/100 ml	Ammonia as N mg/L	O&G mg/L	Metals Selenium ug/L
Monthly Average	2.1	2.4	N/A	< 20	0.15	< 5.0	< 1.0
Peak Day	4.3	3.5	7.9	< 20	0.40	< 5.0	< 1.0
Percent Removal	98.9	99.2	N/A	N/A	N/A	N/A	N/A

NPDES EFFLUENT LIMITATIONS

	BOD mg/l	TSS mg/l	pH	E.coli Coliform Colonies/100 ml	Ammonia as N mg/L	O&G mg/L	Metals Selenium ug/ L
Monthly Average	30	30	6-9	126	2.2	10	3.6
Weekly Average	45	45		630			
Daily Max				N/A	11.5	15	9.1

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.853 MGD or 62% of Permitted flow with Lake Ozark contributing 15% of the total flow and Osage Beach contributing 85%. Daily influent flow BOD and TSS data is presented in Table A. Daily flow for the month and rainfall are shown in Figure 2. A three-year flow history for each of the two cities is presented in Table B.

Organic loading for the month was 94305 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 49 tanker loads of bio-solids during the month equivalent to a total of 181,300 gallons and 54,866 pounds dry weight solids.

151,945 pounds of dry weight solids have been land applied year to date.

Bio-solids inventory in the storage tanks at the end of the month was 585,000 gallons with a level of 8.0 feet in Tank 1 and 5.0 feet in Tank 2.

WASTEHAULERS

The plant received 12 loads of septage during the month totaling 25,500 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 came in on the 8th of May and found that pista grit vac pump wasn't working properly so we troubleshot it and found that the motor for the vac pump had gone bad. We tried to find just the motor but had no luck. We ordered the pump on the 9th and received it on 14th and had it back going that afternoon.
- Aerator #1 blew a thermal overload relay on the 18th of May and ordered some replacements and received them on the 22nd and was back on-line that same day.
- On the 22nd of May we noticed that the suction globe on the pista grit main pump had a crack in it so we temporarily fixed it until we could get a replacement in.
- We have been spending 2 to 4 hours/week dipping excess amounts of grease off the clarifiers, approximately 30 gallons/week.

SAFETY

- We conducted our monthly routine Safety Meeting on Electrical Safety & Electrical Safety – Arc Flash on the 15th of May.

REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the EDMR on MDNR's website on the 5th of June.

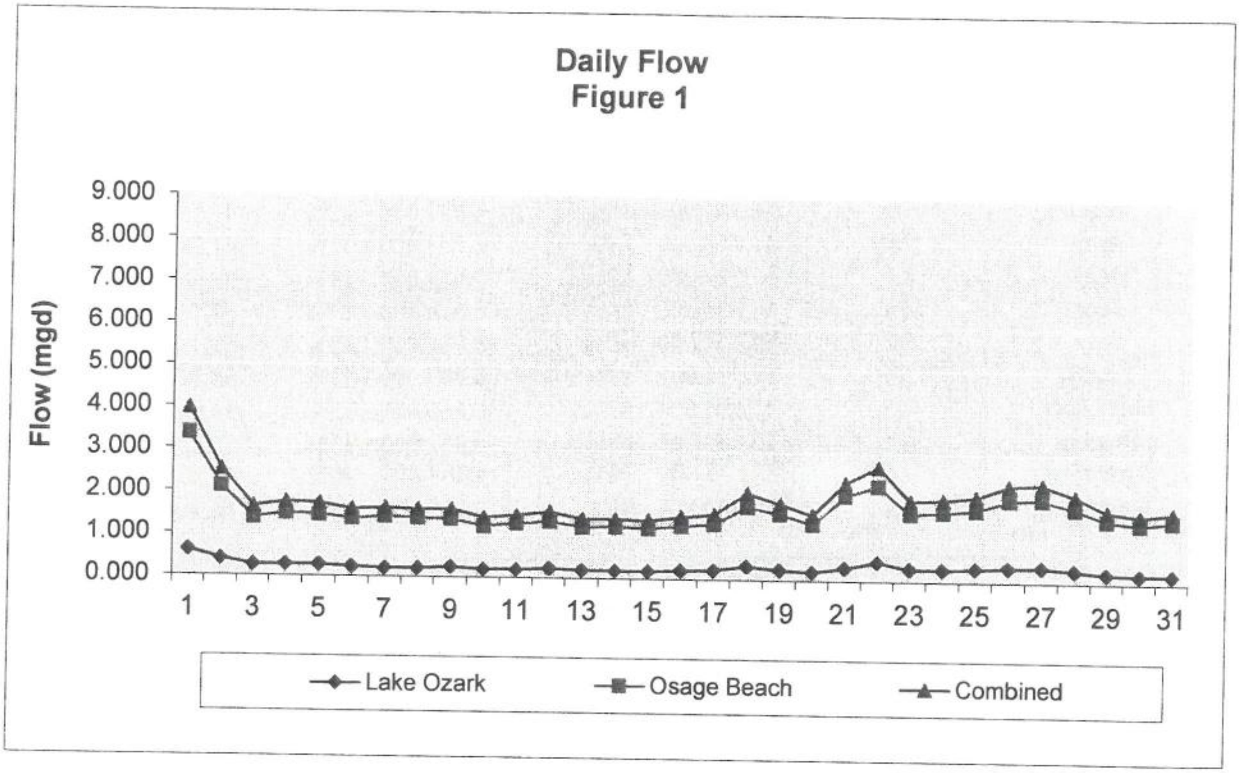
MISCELLANEOUS AND RECOMMENDATIONS

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF May 2019

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-May	4.25	0.608	3.358	3.966	15.3	84.7						
2-May	0	0.402	2.114	2.516	16.0	84.0						
3-May	0.2	0.260	1.378	1.638	15.9	84.1	108	235	178	68	400	332
4-May	**0**	**0.271**	**1.483**	**1.754**	**15.5**	**84.5**						
5-May	**0**	**0.272**	**1.457**	**1.729**	**15.7**	**84.3**						
6-May	0	0.226	1.371	1.597	14.2	85.8						
7-May	0.5	0.203	1.421	1.624	12.5	87.5						
8-May	0.2	0.203	1.391	1.594	12.7	87.3						
9-May	0	0.236	1.368	1.604	14.7	85.3						
10-May	0	0.194	1.218	1.412	13.7	86.3	158	243	203	104	1664	270
11-May	**0.25**	**0.193**	**1.277**	**1.470**	**13.1**	**86.9**						
12-May	**0.26**	**0.224**	**1.332**	**1.556**	**14.4**	**85.6**						
13-May	0	0.189	1.210	1.399	13.5	86.5						
14-May	0	0.183	1.225	1.408	13.0	87.0						
15-May	0.3	0.177	1.195	1.372	12.9	87.1						
16-May	0	0.206	1.260	1.466	14.1	85.9						
17-May	0	0.222	1.312	1.534	14.5	85.5	193	223	275	134	148	420
18-May	**0**	**0.324**	**1.725**	**2.049**	**15.8**	**84.2**						
19-May	**0.5**	**0.241**	**1.567**	**1.808**	**13.3**	**86.7**						
20-May	0	0.210	1.331	1.541	13.6	86.4						
21-May	1.75	0.306	2.007	2.313	13.2	86.8						
22-May	0.9	0.458	2.242	2.700	17.0	83.0						
23-May	0.3	0.303	1.596	1.899	16.0	84.0						
24-May	0.1	0.295	1.635	1.930	15.3	84.7	128	120	143	98	124	188
25-May	**0.1**	**0.318**	**1.693**	**2.011**	**15.8**	**84.2**						
26-May	**0**	**0.342**	**1.938**	**2.280**	**15.0**	**85.0**						
27-May	0	0.357	1.955	2.312	15.4	84.6						
28-May	0.25	0.296	1.741	2.037	14.5	85.5						
29-May	0	0.218	1.474	1.692	12.9	87.1						
30-May	0	0.198	1.389	1.587	12.5	87.5						
31-May	0	0.198	1.461	1.659	11.9	88.1	203	240	185	118	248	230
SUM	9.9	8.333	49.124	57.457								
AVG		0.269	1.585	1.853	15	85	158	212	197	104	517	288

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

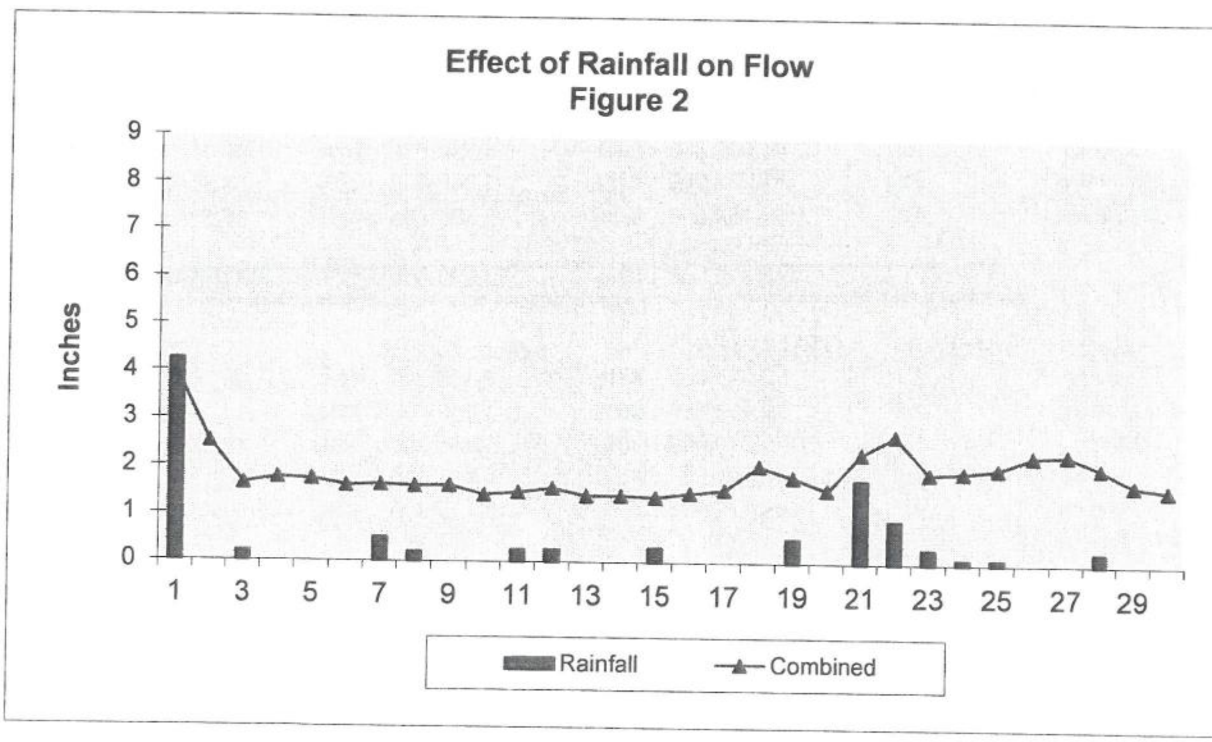
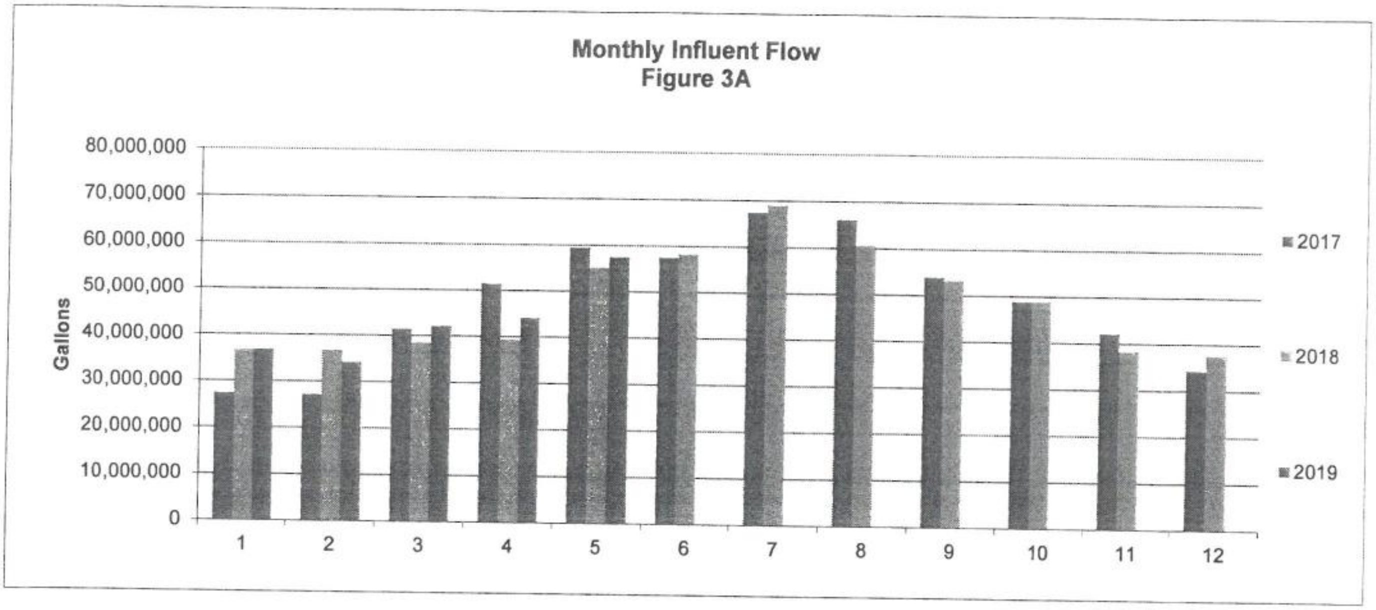

Effect of Rainfall on Flow
Figure 2
Inches
9
8
7
6
5
4
3
2
1
0
1
3
5
7
9
11
13
15
17
19
21
23
25
27
29
Rainfall
Combined

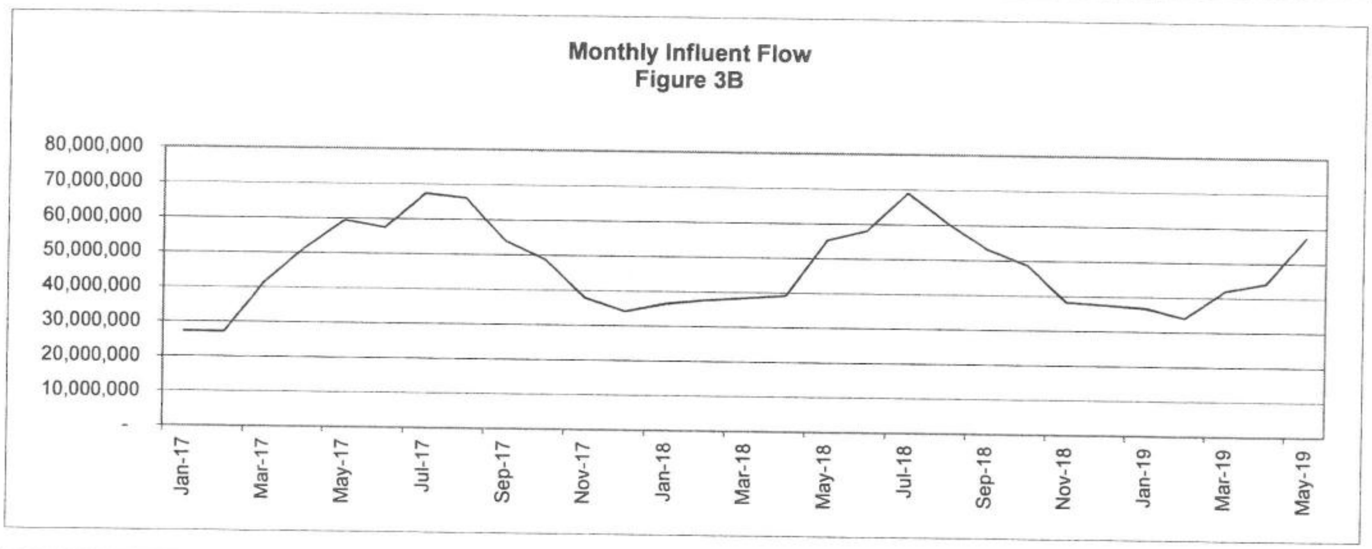
TABLE B
JOINT SEWER BOARD
Monthly Flows

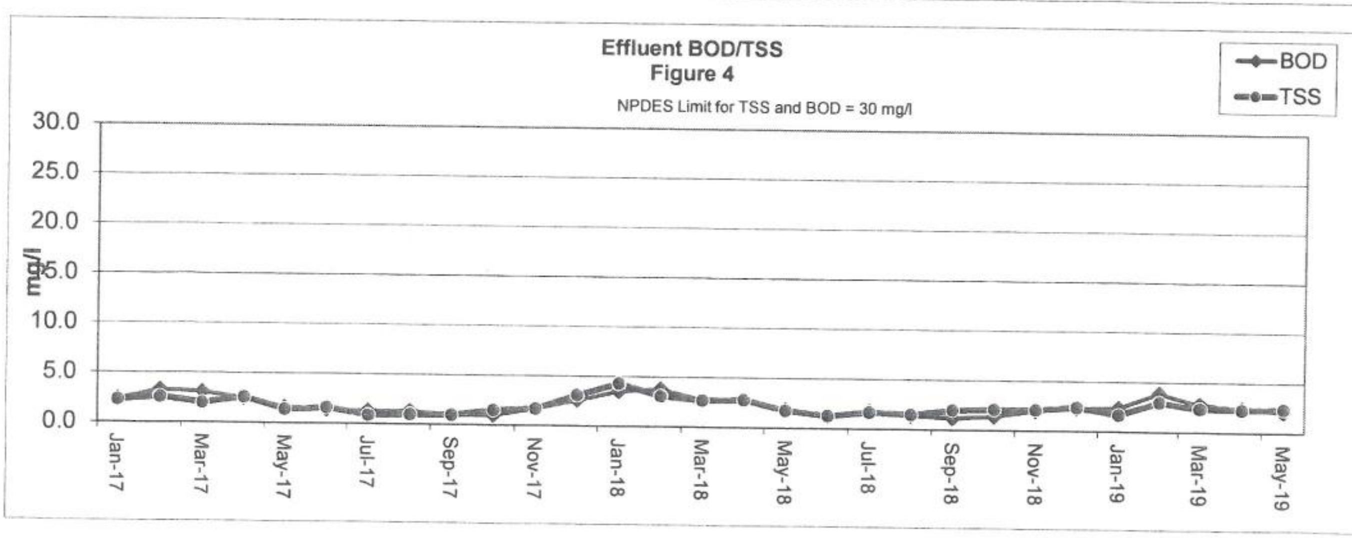
2017	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
January	2.5	23,440,000	86%	3,909,000	14%	27,349,000	100%
February	0.7	23,345,000	86%	3,812,000	14%	27,157,000	100%
March	3.8	36,554,000	88%	4,844,000	12%	41,398,000	100%
April	9.8	44,665,000	87%	6,723,000	13%	51,388,000	100%
May	8.1	51,527,000	87%	7,979,000	13%	59,506,000	100%
June	2.9	50,926,000	88%	6,618,000	12%	57,544,000	100%
July	5.2	59,347,000	88%	8,092,000	12%	67,439,000	100%
August	12.4	57,736,000	87%	8,409,000	13%	66,145,000	100%
September	1.5	47,096,000	87%	6,866,000	13%	53,962,000	100%
October	7.4	42,489,000	87%	6,332,000	13%	48,821,000	100%
November	0.5	37,947,000	90%	4,244,000	10%	42,191,000	100%
December	0.9	30,459,000	89%	3,808,000	11%	34,267,000	100%
	55.6	505,531,000	88%	71,636,000	12%	577,167,000	100%

2018	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
January	2.8	32,190,000	88%	4,345,000	12%	36,535,000	100%
February	5.4	31,846,000	87%	4,861,000	13%	36,707,000	100%
March	3.2	33,424,000	87%	5,010,000	13%	38,434,000	100%
April	1.9	34,339,000	88%	4,896,000	12%	39,235,000	100%
May	5.4	47,620,000	86%	7,610,000	14%	55,230,000	100%
June	3.2	51,063,000	88%	7,125,000	12%	58,188,000	100%
July	2.7	60,484,000	88%	8,550,000	12%	69,034,000	100%
August	6.9	52,916,000	87%	7,679,000	13%	60,595,000	100%
September	3.4	46,228,000	87%	7,013,000	13%	53,241,000	100%
October	7.5	42,037,000	86%	6,738,000	14%	48,775,000	100%
November	3.6	33,221,000	87%	5,089,000	13%	38,310,000	100%
December	6.3	32,452,000	86%	5,123,000	14%	37,575,000	100%
	52.3	497,820,000	87%	74,039,000	13%	571,859,000	100%

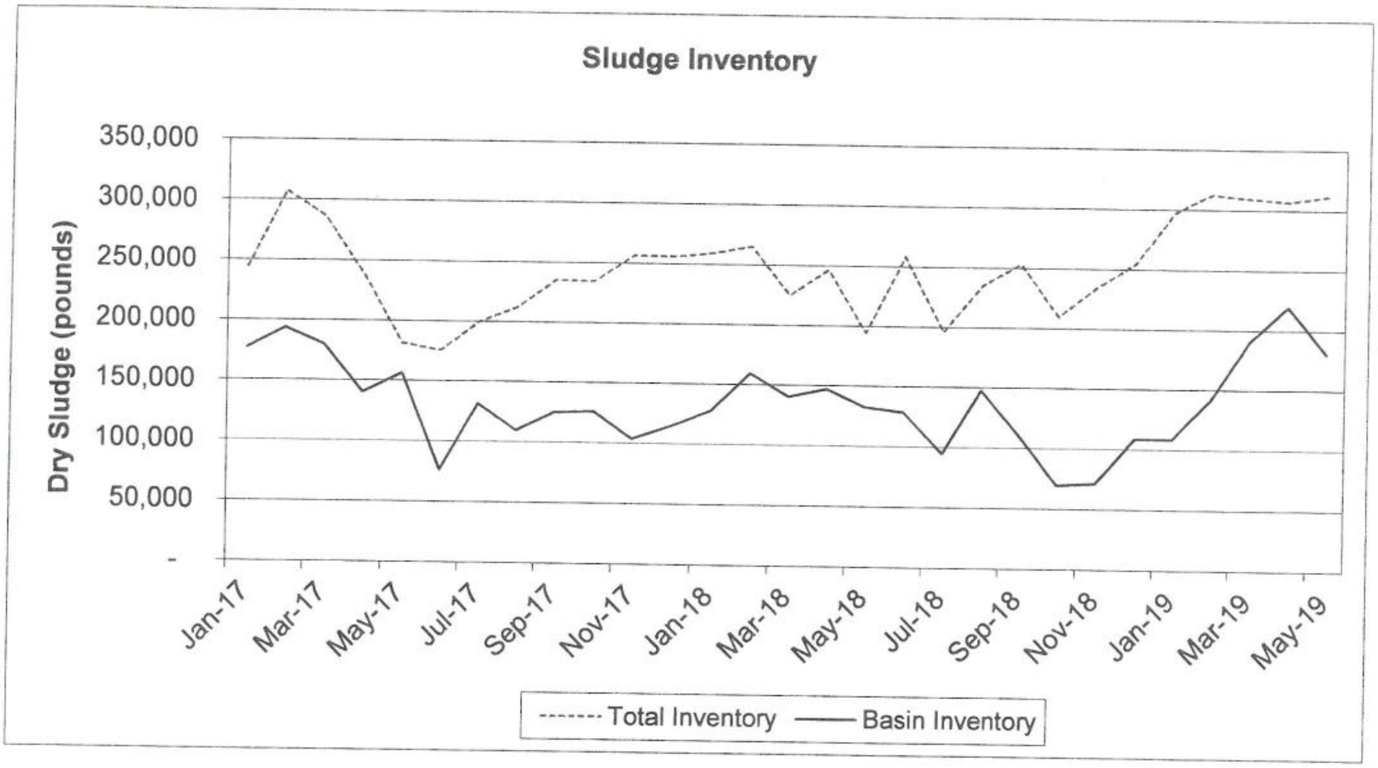
2019	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
January	2.1	32,085,000	87%	4,708,000	13%	36,793,000	100%
February	4.4	29,492,000	86%	4,650,000	14%	34,142,000	100%
March	6.3	36,210,000	86%	5,876,000	14%	42,086,000	100%
April	4.1	37,991,000	86%	6,135,000	14%	44,126,000	100%
May	9.9	49,124,000	85%	8,333,000	15%	57,457,000	100%
June						-	
July						-	
August						-	
September						-	
October						-	
November						-	
December						-	
	26.7	184,902,000	86%	29,702,000	14%	214,604,000	100%

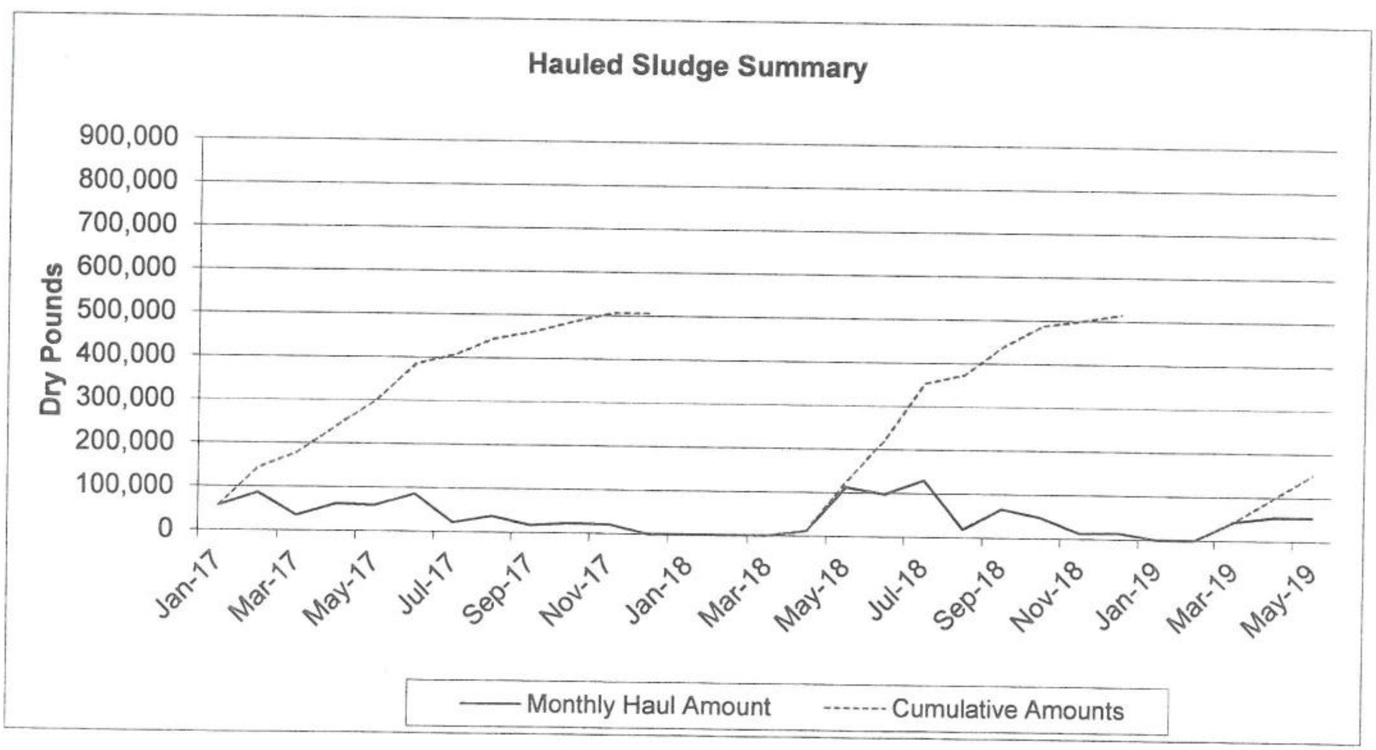

Monthly Influent Flow
Figure 3A
Gallons
80,000,000
70,000,000
60,000,000
50,000,000
40,000,000
30,000,000
20,000,000
10,000,000
0
1
2
3
4
5
6
7
8
9
10
11
12
2017
2018
2019


Monthly Influent Flow
Figure 3B
80,000,000
70,000,000
60,000,000
50,000,000
40,000,000
30,000,000
20,000,000
10,000,000
-
Jan-17
Mar-17
May-17
Jul-17
Sep-17
Nov-17
Jan-18
Mar-18
May-18
Jul-18
Sep-18
Nov-18
Jan-19
Mar-19
May-19


Effluent BOD/TSS
Figure 4
NPDES Limit for TSS and BOD = 30 mg/l
BOD
TSS
mg/l
30.0
25.0
20.0
15.0
10.0
5.0
0.0
Jan-17
Mar-17
May-17
Jul-17
Sep-17
Nov-17
Jan-18
Mar-18
May-18
Jul-18
Sep-18
Nov-18
Jan-19
Mar-19
May-19

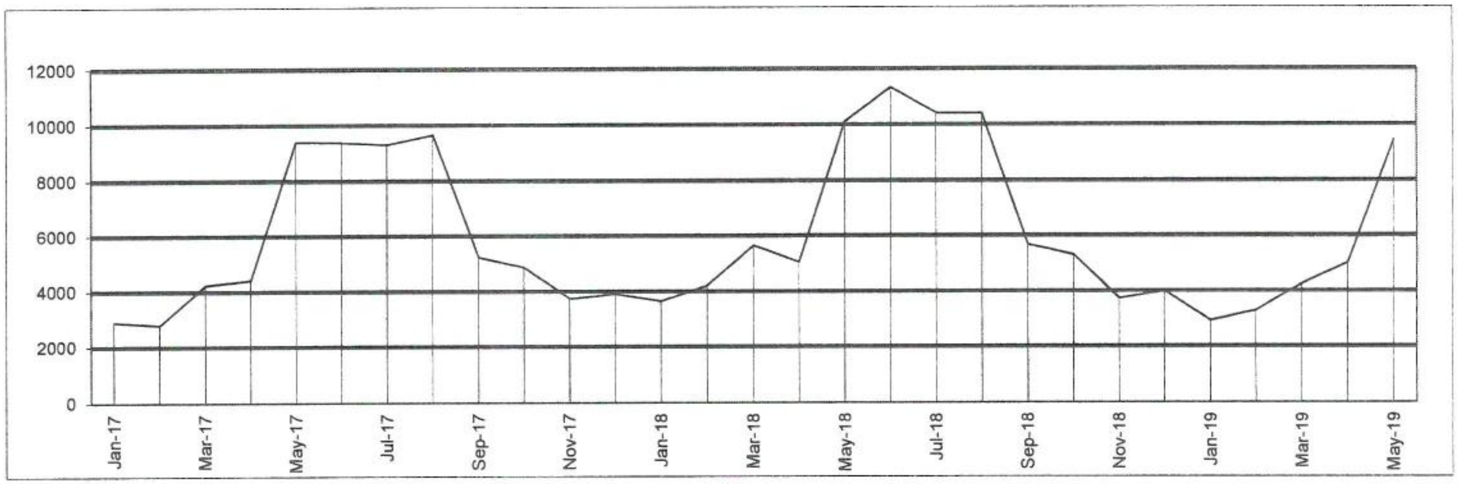
	Hauled Sludge					Basin Depths					Blanket Depths			MLSS Inventory		Blanket and MLSS Inventory		MLSS	Total Dry	Accepted Septage	
	Loads	Gallons	# Dry	% Solids	Annual Cumulative # Dry	Tank #1	Tank #2	AB #1	Basin Gallons	# Dry	Clarf #1	Clarf #2	Clarf #3	MLSS AB #1	MLSS AB #2	Gallons	# Dry	% Solids	Sludge Inventory	Loads	Gallons
Jan-17	47	173,000	56,748	3.9%	56,748	6.0	6.0	0.0	540,000	177,132	1.0	0.0	1.0	-	5,080	1,861,190	78,853	0.00508	255,986	15	37,500
Feb-17	68	251,600	86,649	4.1%	143,397	5.5	7.0	0.0	562,500	193,720	1.5	0.0	2.0	-	4,090	1,913,499	65,271	0.00409	258,991	5	12,500
Mar-17	33	122,100	34,808	3.4%	178,205	7.5	6.5	0.0	630,000	179,599	3.0	0.0	1.0	-	5,400	1,896,714	85,420	0.0054	265,019	41	102,500
Apr-17	59	218,300	61,994	3.4%	240,199	6.5	4.5	0.0	495,000	140,573	8.0	10.0	1.5	-	4,630	2,184,858	84,367	0.00463	224,939	8	20,000
May-17	51	188,700	59,556	3.8%	299,755	7.0	4.0	0.0	495,000	156,228	1.0	1.5	0.5	3,420	2,480	3,666,119	90,198	0.00295	246,426	45	116,000
Jun-17	75	277,500	85,724	3.7%	385,479	2.5	3.0	0.0	247,500	76,457	3.0	2.5	1.5	4,530	3,000	3,762,833	118,153	0.00377	194,610	33	82,500
Jul-17	20	74,000	21,631	3.5%	407,110	4.5	5.5	0.0	450,000	131,540	1.0	1.0	0.5	4,670	3,650	3,657,238	126,886	0.00416	258,426	43	107,500
Aug-17	39	144,300	37,030	3.1%	444,140	5.0	4.5	0.0	427,500	109,704	1.0	0.5	1.0	2,910	2,740	3,670,071	86,469	0.00283	196,173	41	103,500
Sep-17	16	59,200	17,311	3.5%	461,451	6.0	3.5	0.0	427,500	125,008	0.5	1.0	1.0	3,880	3,300	3,670,071	109,884	0.00359	234,892	48	122,000
Oct-17	20	74,000	23,051	3.7%	484,502	8.0	1.0	0.0	405,000	126,158	0.5	1.0	1.0	4,520	3,780	3,670,071	127,025	0.00415	253,182	10	23,500
Nov-17	20	74,000	21,292	3.4%	505,794	4.5	3.5	0.0	360,000	103,583	1.0	1.5	0.5	2,890	4,060	3,666,119	106,250	0.00348	209,832	7	17,500
Dec-17	0	-	0	3.4%	505,794	6.0	3.0	0.0	405,000	114,842	1.0	1.5	1.0	3,680	4,120	3,687,833	119,950	0.0039	234,792	7	17,500
Jan-18	0	-	0	3.4%		5.5	4.5	0.0	450,000	127,602	0.5	1.0	0.0	4,390	4,040	3,626,643	127,488	0.00422	255,090	5	12,500
Feb-18	0	-	0	3.4%	-	7.5	5.0	0.0	562,500	159,503	2.0	4.0	1.0	4,880	3,920	3,750,000	137,610	0.0044	297,113	16	40,000
Mar-18	0	-	0	3.4%	-	5.5	5.5	0.0	495,000	140,362	0.5	0.5	0.5	5,580	5,780	3,639,476	172,406	0.00568	312,769	6	15,000
Apr-18	11	40,700	12,096	3.6%	12,096	5.0	6.0	0.0	495,000	147,114	0.5	0.5	0.5	5,670	5,040	3,639,476	162,542	0.00536	309,655	8	20,000
May-18	93	344,100	112,693	3.9%	124,789	4.5	4.5	0.0	405,000	132,638	0.5	0.5	0.5	5,963	5,547	3,639,476	174,683	0.00576	307,321	10	24,500
Jun-18	88	325,000	97,758	3.6%	222,547	4.0	5.5	0.0	427,500	128,589	4.0	3.0	1.0	6,190	5,490	3,767,762	183,511	0.00584	312,100	38	95,000
Jul-18	126	466,200	131,023	3.4%	353,570	3.0	4.5	0.0	337,500	94,853	1.0	0.5	1.5	4,570	4,990	3,691,785	147,174	0.00478	242,026	42	107,000
Aug-18	12	44,400	19,441	5.3%	373,011	5.0	2.5	0.0	337,500	147,778	2.5	1.0	1.0	4,680	4,170	3,705,595	136,753	0.00443	284,531	30	75,000
Sep-18	51	188,700	66,098	4.2%	439,109	4.5	2.5	0.0	315,000	110,338	0.5	1.0	0.0	3,920	3,340	3,626,643	109,794	0.00363	220,132	45	113,500
Oct-18	38	140,600	48,447	4.1%	487,556	3.0	1.5	0.0	202,500	69,776	0.5	0.5	0.0	4,290	3,640	3,617,762	119,633	0.00397	189,409	21	59,500
Nov-18	11	40,700	12,899	3.8%	500,455	2.5	2.5	0.0	225,000	71,309	1.0	1.0	0.0	4,100	4,640	3,635,524	132,500	0.00437	203,809	8	21,500
Dec-18	14	51,800	14,688	3.4%	515,143	6.5	2.0	0.0	382,500	108,459	11.0	12.0	0.0	4,120	3,420	4,008,526	126,035	0.00377	234,494	22	55,000
Jan-19	0	-	0	3.4%		5.0	3.5	0.0	382,500	108,462	1.0	1.0	0.0	4,650	4,480	3,635,524	138,412	0.00457	246,874	19	46,500
Feb-19	0	-	0	3.4%	-	6.0	5.0	0.0	495,000	140,362	1.0	1.0	0.0	4,570	4,740	3,635,524	141,141	0.00466	281,503	31	79,500
Mar-19	36	133,200	43,139	3.9%	43,139	6.0	7.0	0.0	585,000	190,277	0.5	1.0	0.0	4,780	3,920	3,626,643	131,571	0.00435	321,848	9	21,500
Apr-19	39	144,300	53,940	4.5%	97,079	5.5	7.5	0.0	585,000	219,551	1.5	0.5	1.0	5,720	4,530	3,678,952	157,248	0.00513	376,798	23	61,500
May-19	49	181,300	54,866	3.7%	151,945	8.0	5.0	0.0	585,000	180,519	3.0	1.5	1.0	5,150	5,160	3,723,357	160,077	0.00516	340,596	12	25,500


Sludge Inventory
350,000
300,000
250,000
200,000
150,000
100,000
50,000
Dry Sludge (pounds)
Jan-17
Mar-17
May-17
Jul-17
Sep-17
Nov-17
Jan-18
Mar-18
May-18
Jul-18
Sep-18
Nov-18
Jan-19
Mar-19
May-19
Total Inventory
Basin Inventory

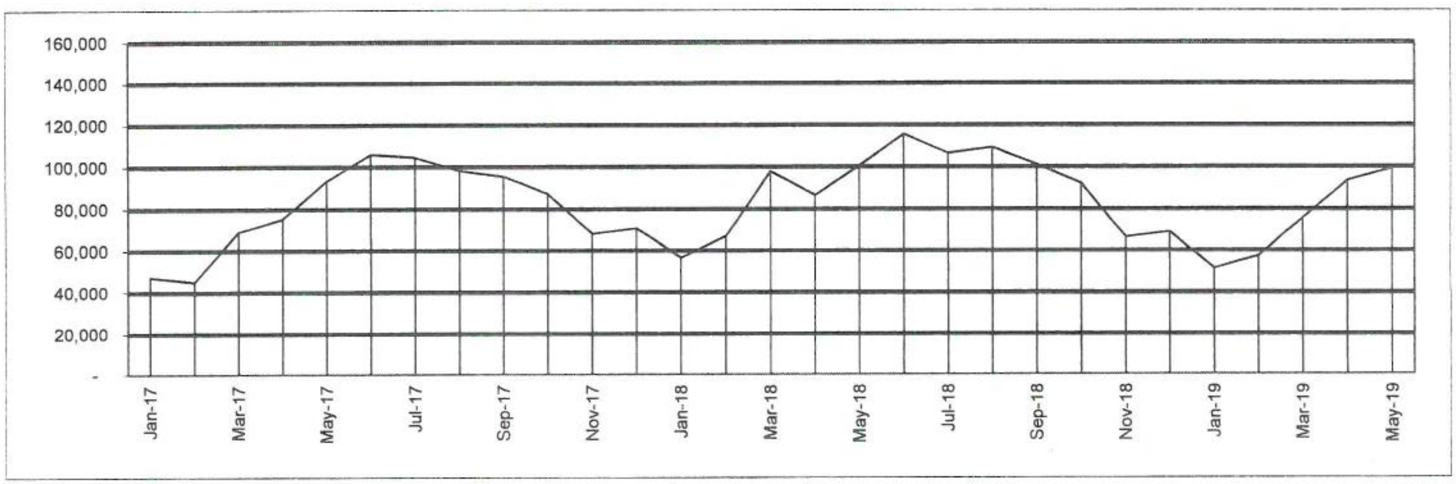

Hauled Sludge Summary
900,000
800,000
700,000
600,000
500,000
400,000
300,000
200,000
100,000
0
Dry Pounds
Jan-17
Mar-17
May-17
Jul-17
Sep-17
Nov-17
Jan-18
Mar-18
May-18
Jul-18
Sep-18
Nov-18
Jan-19
Mar-19
May-19
Monthly Haul Amount
Cumulative Amounts

	Electric Cost	Kilowatts Used
Jan-17	2904	47,480
Feb-17	2796	45,240
Mar-17	4233	69,210
Apr-17	4411	75,480
May-17	9413	93,494
Jun-17	9388	106,070
Jul-17	9310	104,700
Aug-17	9666	98,220
Sep-17	5246	95,470
Oct-17	4874	87,240
Nov-17	3738	68,100
Dec-17	3909	70,820
Jan-18	3640	56,750
Feb-18	4207	66,930
Mar-18	5667	98,010
Apr-18	5060	86,650
May-18	10116	100,520
Jun-18	11336	115,750
Jul-18	10417	106,550
Aug-18	10400	109,290
Sep-18	5685	101,170
Oct-18	5317	92,210
Nov-18	3731	66,280
Dec-18	3990	68,840
Jan-19	2926	51,490
Feb-19	3295	57,450
Mar-19	4251	75,830
Apr-19	5014	93,570
May-19	9452	99,330

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
May-19	MO-0103241	#001	Oxidation Ditch/UV/Sludge Holding-sludge is land applied

	INFLUENT				EFFLUENT								% Removal	
DATE	pH UNITS	BOD mg/L	TSS mg/L	TEMP °C	FLOW MGD	pH UNITS	BOD mg/L	TSS mg/L	Ammonia as N mg/l	DO mg/L	E. coli COLFRM #/100 ML	TEMP °C	BOD mg/L	TSS mg/L
1	7.1			17.6	4.479	7.5				3.6		17.9		
2	7.1			17.1	2.785	7.5				4.8		17.7		
3	7.2	178	332	16.3	1.776	7.7	4.3	3.5		5.6		17.6	97.6	98.9
4	7.4			16.1	1.903	7.7				5.6		16.9		
5	7.4			16.1	1.918	7.7				5.7		16.6		
6	7.3			17.2	1.756	7.7				5.6	< 20	17.7		
7	7.3			17.4	1.753	7.8			0.04	6.0		18.4		
8	7.3			17.3	1.795	7.6				5.8		19.0		
9	7.4			17.2	1.612	7.7				5.3		18.3		
10	7.2	203	270	16.8	1.578	7.7	1.9	2.2		6.3		17.4	99.1	99.2
11	7.2			16.7	1.643	7.7				6.3		16.2		
12	7.2			16.8	1.811	7.7				6.1		16.6		
13	7.1			16.7	1.579	7.6				6.2	< 20	16.6		
14	7.3			17.8	1.488	7.6				6.3		17.7		
15	7.2			17.7	1.545	7.6				5.8		18.5		
16	7.3			18.2	1.702	7.6			0.12	5.8		19.8		
17	6.7	275	420	19.9	1.652	7.6	1.3	2.5		5.9		20.5	99.5	99.4
18	7.2			18.5	1.725	7.6				5.5		20.6		
19	7.3			18.7	1.925	7.6				5.1		20.1		
20	7.3			17.9	1.635	7.6				5.4	< 20	19.7		
21	7.2			18.3	2.570	7.7				5.0		18.7		
22	7.2			18.5	3.005	7.6			0.4	5.4		19.0		
23	7.2			18.2	2.053	7.6				5.4		19.8		
24	7.2	143	188	19.4	2.119	7.7	1.6	1.9		5.4		20.8	98.9	99.0
25	7.2			20.0	2.125	7.8				5.2		21.6		
26	7.1			20.2	2.384	7.6				5.4		21.5		
27	7.1			20.1	2.458	7.7				5.8		21.5		
28	7.4			20.9	2.157	7.9				4.6	< 20	22.8		
29	7.1			22.7	1.676	7.7			0.05	5.5		24.0		
30	7.3			20.4	1.626	7.7				5.0		22.1		
31	7.3	185	230	20.0	1.733	7.8	1.4	1.8		6.0		22.2	99.2	99.2
Total					61.966									
Avg		197	288	18.3	1.999		2.1	2.4	0.15	5.5	< 20	19.3	98.9	99.1
Min	6.7	143	188	16.1	1.488	7.5	1.3	1.8	0.04	3.6	< 20	16.2	97.6	98.9
Max	7.4	275	420	22.7	4.479	7.9	4.3	3.5	0.40	6.3	< 20	24.0	99.5	99.4

MONTHLY MONITORING					QUARTERLY MONITORING					
DATE	Oil & Grease mg/L	Selenium µg/L	SM1 Hardness mg/L	SM2 Hardness mg/L	Phosphorus mg/L	SM1 Phosphorus mg/L	T. Nitrogen mg/L	SM1 T. Nitrogen mg/L	TR. Cadmium ug/L	TR. Copper µg/L
1										
2										
3										
4										
5										
6	< 4.9	< 1.0	244	277						
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	< 4.9	< 1.0	244	277						
Avg	< 4.9	< 1.0	244	277						
Min	< 4.9	< 1.0	244	277						
Max	< 4.9	< 1.0	244	277						

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		1.1	5,470	710	18.1	1.1	4,570	580	17.9	60	4.25	7:30
2		1.7	3,970	410	17.9	1.5	4,060	400	17.3	63	0	7:30
3		1.5	5,860	740	17.6	2.6	4,600	540	17.6	58	0.2	7:30
4		1.4	6,040	830	16.9	3.3	3,940	450	16.8	56	0	7:30
5		2.2	4,970	690	16.7	2.5	4,520	610	16.6	52	0	7:30
6		1.6	5,410	770	17.5	2.9	4,450	600	17.4	59	0	7:30
7		1.6	5,550	750	18.5	1.3	5,030	650	18.4	62	0.5	7:30
8		1.6	5,370	700	19.0	1.2	5,490	700	18.9	64	0.2	7:30
9		3.0	5,510	700	18.4	2.8	5,290	720	18.4	59	0	7:30
10	5,092	2.3	5,560	800	17.1	3.0	5,110	700	17.1	50	0	7:30
11		2.5	5,870	790	16.6	4.1	4,800	630	16.6	50	0.25	7:30
12		2.7	5,750	770	16.6	2.8	5,220	720	16.6	51	0.26	7:30
13	6,017	2.8	5,110	740	16.8	2.1	5,250	750	16.9	47	0	7:30
14	6,665	2.9	5,610	730	17.8	1.5	4,950	700	17.8	54	0	7:30
15		1.8	5,250	740	18.7	1.6	4,470	640	18.5	64	0.3	7:30
16	7,591	1.5	6,010	800	19.7	1.8	4,480	580	19.4	63	0	7:30
17	4,814	1.6	6,170	800	20.7	1.6	4,860	600	20.3	67	0	7:30
18		1.6	6,110	800	20.4	2.8	4,730	580	20.3	69	0	7:30
19		1.0	6,200	810	19.9	1.1	4,730	620	19.9	63	0.5	7:30
20		0.9	5,790	800	19.4	1.0	4,630	620	19.2	53	0	7:30
21		1.0	4,540	730	18.5	1.3	4,720	550	18.7	56	1.75	7:30
22		1.5	5,390	740	19.3	1.1	4,920	610	19.2	59	0.9	7:30
23		3.6	5,850	750	19.8	3.7	4,950	670	19.7	68	0.3	7:30
24		1.5	5,330	760	20.9	1.6	4,590	570	20.7	66	0.1	7:30
25		1.3	5,270	720	21.6	1.4	4,450	510	21.2	69	0.1	7:30
26		1.2	5,730	780	21.6	1.7	4,150	510	21.4	69	0	7:30
27		1.1	6,430	710	21.5	1.9	5,030	650	21.3	67	0	7:30
28	5,308	0.8	6,160	770	22.7	1.0	3,850	400	22.3	73	0.25	7:30
29	6,110	1.9	6,050	770	23.7	3.0	4,450	550	23.2	73	0	7:30
30	7,406	0.7	5,410	700	22.1	0.7	4,860	500	22.2	65	0	7:30
31	5,863	1.5	5,150	660	21.9	1.4	5,160	670	21.5	63	0	7:30

COMMENTS:

TESTS PERFORMED BY (PRINT)	SIGNATURE	PHONE #	DATE
John Hornback	John Hornback	(573)365-0455	6/5/2019
REPORT APPROVED BY (PRINT)	SIGNATURE	PHONE #	DATE
Gary Hutchcraft	Gary Hutchcraft	(573)365-0455	6/5/2019

*Required Daily (Monday - Friday)

**Required 1/week

State of Missouri
Department of Natural Resources
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Dep. of Natural Resources
(REGIONAL OFFICE)
Southwest Regional Office
2040 W. Woodland
Springfield, MO 65807-5912
4178914300
4178914399 (fax)

PERMITTEE NAME/ADDRESS

NAME: Lake of the Ozarks Regional WWTP 1
ADDRESS: #3 Anderson Road
LAKE OZARK, MO 65049

MO0103241	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2019	05	01	TO	2019	05	31

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

Parameter		MASS		Unit	CONCENTRATION			Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
BOD, 5-day, 20 deg. C (00310)	REPORTD	*****	*****		*****	4.3	2.1	mg/L	Weekly	24 Hour Composite	
Stage Type: End of Pipe	REQRMNT	*****	*****		*****	Weekly Average : 45	Monthly Average : 30		Weekly	24 Hour Composite	
BOD, 5-day, percent removal (81010)	REPORTD	*****	*****		*****	*****	97.6	%	Monthly	Calculated	
Stage Type: End of Pipe	REQRMNT	*****	*****		*****	*****	Monthly Average Minimum : 85		Monthly	Calculated	
Escherichia coli (E. coli) (51040)	REPORTD	*****	*****		*****	<20	<20	#/100mL	Weekly	Grab	
Stage Type: End of Pipe	REQRMNT	*****	*****		*****	7 Day Geometric : 630	30 Day Geometric Mean : 126		Weekly	Grab	
Flow, in conduit or thru treatment plant (50050)	REPORTD	4.479	1.999	Mgal/d	*****	*****	*****		Daily	Total Measured	
Stage Type: End of Pipe	REQRMNT	Daily Maximum : Monitoring Required	Monthly Average : Monitoring Required		*****	*****	*****		Daily	Total Measured	
Nitrogen, ammonia total (as N) (00610)	REPORTD	*****	*****		0.40	*****	0.15	mg/L	Weekly	Grab	
Stage Type: End of Pipe	REQRMNT	*****	*****		Daily Maximum : 6.0	*****	Monthly Average : 1.1		Weekly	Grab	
Oil and grease (soxhlet extr.) tot. (00550)	REPORTD	*****	*****		<4.9	*****	<4.9	mg/L	Monthly	Grab	
Stage Type: End of Pipe	REQRMNT	*****	*****		Daily Maximum : 15	*****	Monthly Average : 10		Monthly	Grab	
pH (00400)	REPORTD	*****	*****		7.5	*****	7.9	SU	Weekly	Grab	
Stage Type: End of Pipe	REQRMNT	*****	*****		Minimum : 6.5	*****	Maximum : 9.0		Weekly	Grab	

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

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

OPERATOR IN RESPONSIBLE CHARGE			
Gary Hutchcraft		7305	
TYPED OR PRINTED NAME		CERTIFICATE NUMBER	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	573-365-0455
Gary F Hutchcraft	Gary F Hutchcraft	2019-06-05 15:06:49	
TYPED OR PRINTED NAME	SIGNATURE	Date	

State of Missouri
Department of Natural Resources
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Dep. of Natural Resources
(REGIONAL OFFICE)
Southwest Regional Office
2040 W. Woodland
Springfield, MO 65807-5912
4178914300
4178914399 (fax)

PERMITTEE NAME/ADDRESS

NAME: Lake of the Ozarks Regional WWTP 1
ADDRESS: #3 Anderson Road
LAKE OZARK, MO 65049

MO0103241	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2019	05	01	TO	2019	05	31

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

Parameter		MASS		Unit	CONCENTRATION			Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Selenium (Se), total recoverable (00981)	REPORTD	*****	*****		<1.0	*****	<1.0	ug/L	Monthly	Grab	
Stage Type: End of Pipe	REQRMNT	*****	*****		Daily Maximum : 9.1	*****	Monthly Average : 3.6		Monthly	Grab	
Suspended Solids, percent removal (81011)	REPORTD	*****	*****		*****	*****	98.9	%	Monthly	Calculated	
Stage Type: End of Pipe	REQRMNT	*****	*****		*****	*****	Monthly Average Minimum : 85		Monthly	Calculated	
Total Suspended Solids (TSS) (00530)	REPORTD	*****	*****		*****	3.5	2.4	mg/L	Weekly	24 Hour Composite	
Stage Type: End of Pipe	REQRMNT	*****	*****		*****	Weekly Average : 45	Monthly Average : 30		Weekly	24 Hour Composite	

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

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OPERATOR IN RESPONSIBLE CHARGE			
Gary Hutchcraft		7305	
TYPED OR PRINTED NAME		CERTIFICATE NUMBER	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	573-365-0455
Gary F Hutchcraft	Gary F Hutchcraft	2019-06-05 15:06:49	
TYPED OR PRINTED NAME	SIGNATURE	Date	

PERMITTEE NAME/ADDRESS

State of Missouri
Department of Natural Resources

Dep. of Natural Resources
(REGIONAL OFFICE)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

Southwest Regional Office
2040 W. Woodland
Springfield, MO 65807-5912
4178914300
4178914399 (fax)

NAME: Lake of the Ozarks Regional WWTP 1
ADDRESS: #3 Anderson Road
LAKE OZARK, MO 65049

MO0103241	SM2 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	2019	05	01	TO	2019	05	31

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

Parameter		MASS		Unit	CONCENTRATION			Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Hardness, total (as CaCO3) (00900)	REPORTD	*****	*****		277	*****	277	mg/L	Monthly	Grab	
Stage Type: Instream Monitoring	REQRMNT	*****	*****		Daily Maximum : Monitoring Required	*****	Monthly Average : Monitoring Required		Monthly	Grab	

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

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

OPERATOR IN RESPONSIBLE CHARGE			
Gary Hutchcraft		7305	
TYPED OR PRINTED NAME		CERTIFICATE NUMBER	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	573-365-0455
Gary F Hutchcraft	Gary F Hutchcraft	2019-06-05 15:06:49	
TYPED OR PRINTED NAME	SIGNATURE	Date	

LAKE OZARK/OSAGE BEACH WWTP
Operation Report

FOR MAY (month) 2019 (year)

DATE	INITIAL	PLANT INFLUENT: FLOW LO (mgd)	FLOW OB (mgd)	FLOW TOTAL (mgd)	BOD-LO (mg/l)	BOD-OB (mg/l)	BOD-TOTAL (mg/l)	TSS-LO (mg/l)	TSS-OB (mg/l)	TSS TOTAL (mg/l)	AMMONIA as N	pH	TEMP C	ENVIRONMENTAL CONDITIONS: WEATHER	PRECIPITATION (inches)	TEMPERATURE (degree F)
1	DH	0.608	3.358	3.966								7.11	17.6	O	4.25	60
2	JH	0.402	2.114	2.516								7.13	17.1	O	0	63
3	DH	0.260	1.378	1.638	108	235	178	68	400	332		7.21	16.3	PC	0.20	58
4	JH	0.271	1.483	1.754								7.35	16.1	O	0	56
5	JH	0.272	1.457	1.729								7.41	16.1	PC	0	52
6	JH	0.226	1.371	1.597								7.33	17.2	PC	0	59
7	JH	0.203	1.421	1.624							36.7	7.26	17.4	PC	0.50	62
8	JH	0.203	1.391	1.594								7.30	17.3	PC	0.20	64
9	DH	0.236	1.368	1.604								7.41	17.2	PC	0	59
10	JH	0.194	1.218	1.412	158	243	203	104	1664	270		7.21	16.8	C	0	50
11	DH	0.193	1.277	1.470								7.19	16.7	R	0.25	50
12	DH	0.224	1.332	1.556								7.19	16.8	PC	0.26	51
13	GH	0.189	1.210	1.399								7.14	16.7	O	0	47
14	GH	0.183	1.225	1.408								7.32	17.8	C	0	54
15	JH	0.177	1.195	1.372								7.22	17.7	C	0.30	64
16	JH	0.206	1.260	1.466							35.4	7.29	18.2	C	0	63
17	JH	0.222	1.312	1.534	193	223	275	134	148	420		6.72	19.9	PC	0	67
18	JH	0.324	1.725	2.049								7.15	18.5	O	0	69
19	JH	0.241	1.567	1.808								7.30	18.7	C	0.50	63
20	JH	0.210	1.331	1.541								7.33	17.9	C	0	53
21	DH	0.306	2.007	2.313								7.21	18.3	R	1.75	56
22	DH	0.458	2.242	2.700							9.7	7.21	18.5	C	0.90	59
23	JH	0.303	1.596	1.899								7.20	18.2	R	0.3	68
24	DH	0.295	1.635	1.930	128	120	143	98	124	188		7.22	19.4	C	0.1	66
25	DH	0.318	1.693	2.011								7.22	20.0	O	0.1	69
26	DH	0.342	1.938	2.280								7.13	21.5	R	0	69
27	DH	0.357	1.955	2.312								7.14	20.5	PC	0	67
28	GH	0.296	1.741	2.037								7.35	20.9	O	0.25	73
29	GH	0.218	1.474	1.692							35.3	7.08	22.7	C	0	73
30	JH	0.198	1.389	1.587								7.30	20.4	C	0	65
31	JH	0.198	1.461	1.659	203	240	185	118	248	230		7.28	20.0	C	0	63
TOTAL		8.333	49.124	57.457	790	1061	984	522	2584	1440	117.1	223.9	568.4		9.86	1892
MAX		0.608	3.358	3.966	203	243	275	134	1664	420	36.7	7.41	22.7		4.25	73
MIN		0.177	1.195	1.372	108	120	143	68	124	188	9.7	6.72	16.1		0	47
AVG		0.269	1.585	1.853	158	212	197	104	517	288	29.3	7.22	18.3		0.32	61

DATE	OXIDATION DITCH NO. 1 MIXED LIQUOR: SUSPENDED SOLIDS (mg/l)	SETTLOMETER (ml/liter)	SVI (ml/gm)	pH	DO (mg/l)	OXIDATION DITCH NO. 2 MIXED LIQUOR: SUSPENDED SOLIDS (mg/l)	SETTLOMETER (ml/liter)	SVI (ml/gm)	pH	DO (mg/l)	CLARIFIER NO 1: DEPTH OF SLUDGE BLANKET (feet)	CLARIFIER NO 2: DEPTH OF SLUDGE BLANKET (feet)	CLARIFIER NO 3: DEPTH OF SLUDGE BLANKET (feet)
1	5,470	710	130	7.27	1.1	4,570	580	127	7.32	1.1	3.0	2.0	0.5
2	3,970	410	103	7.32	1.7	4,060	400	99	7.27	1.5	5.0	8.0	0.5
3	5,860	740	126	7.35	1.5	4,600	540	117	7.37	2.6	1.5	0.5	0.5
4	6,040	830	137	7.46	1.4	3,940	450	114	7.51	3.3	3.0	1.0	1.0
5	4,970	690	139	7.54	2.2	4,520	610	135	7.49	2.5	0.5	6.0	1.0
6	5,410	770	142	7.48	1.6	4,450	600	135	7.58	2.9	1.0	3.0	1.0
7	5,550	750	135	7.52	1.6	5,030	650	129	7.53	1.3	1.0	1.0	1.0
8	5,370	700	130	7.40	1.6	5,490	700	128	7.37	1.2	0.5	0.5	0.5
9	5,510	700	127	7.54	3.0	5,290	720	136	7.55	2.8	1.0	0.5	0.5
10	5,560	800	144	7.46	2.3	5,110	700	137	7.49	3.0	1.5	1.0	1.0
11	5,870	790	135	7.45	2.5	4,800	630	131	7.52	4.1	1.5	0.5	0.5
12	5,750	770	134	7.42	2.7	5,220	720	138	7.42	2.8	1.5	0.5	0.5
13	5,110	740	145	7.34	2.8	5,225	750	143	7.30	2.1	1.0	1.0	0.5
14	5,610	730	130	7.40	2.9	4,950	700	141	7.35	1.5	2.0	1.0	1.0
15	5,250	740	141	7.36	1.8	4,470	640	143	7.33	1.6	1.0	0.5	2.5
16	6,010	800	133	7.25	1.5	4,480	580	129	7.27	1.8	1.5	0.5	1.0
17	6,170	800	130	7.24	1.6	4,860	600	123	7.30	1.6	1.0	1.0	1.0
18	6,110	800	131	7.38	1.6	4,730	580	123	7.33	2.8	5.0	3.5	1.0
19	6,200	810	131	7.46	1.0	4,730	620	131	7.41	1.1	1.0	1.0	1.0
20	5,790	800	138	7.37	0.9	4,630	620	134	7.36	1.0	1.0	1.0	0.5
21	4,540	730	161	7.35	1.0	4,720	550	117	7.42	1.3	5.5	5.5	1.5
22	5,390	740	137	7.37	1.5	4,920	610	124	7.40	1.1	2.0	2.0	1.0
23	5,850	750	128	7.44	3.6	4,950	670	135	7.43	3.7	1.5	1.0	0.5
24	5,330	760	143	7.31	1.5	4,590	570	124	7.39	1.6	3.0	1.0	0.5
25	5,270	720	137	7.45	1.3	4,450	510	115	7.41	1.4	1.0	3.5	1.0
26	5,730	780	136	7.35	1.2	4,150	510	123	7.39	1.7	1.5	1.5	0.5
27	6,430	710	110	7.36	1.1	5,030	650	129	7.44	1.9	1.0	1.5	0.5
28	6,160	770	125	7.55	0.8	3,850	400	104	7.51	1.0	1.0	6.0	1.5
29	6,050	770	127	7.49	1.9	4,450	550	124	7.49	3.0	3.0	1.0	0.5
30	5,410	700	129	7.47	0.7	4,860	600	123	7.44	0.7	1.0	1.0	0.5
31	5,150	660	128	7.57	1.5	5,160	670	130	7.52	1.4	3.0	1.5	1.0
TOTAL	172,890	22,970	4,122	230	53.4	146,285	18,680	3,941	230	61.4	58	59.5	26
MAX	6,430	830	161	7.57	3.6	5,490	750	143	7.58	4.1	5.5	8.0	2.5
MIN	3,970	410	103	7.24	0.7	3,850	400	99	7.27	0.7	0.5	0.5	0.5
AVG	5,577	741	133	7.41	1.7	4,719	603	127	7.42	2.0	1.9	1.9	0.8

DATE	PLANT EFFLUENT, SMI UPSTREAM & SMI DOWNSTREAM: FLOW EFF (mgd)	pH	BOD (mg/l)	TOTAL SUSPENDED SOLIDS (mg/l)	DO (mg/l)	AMMONIA as N	TEMP C	E. Coli	OIL & GREASE (Monthly)	SELENIUM (Monthly)	SMI HARDNESS (Monthly)	SMI HARDNESS (Monthly)	T.R. PHOSPHORUS (Quarterly)	SMI T.R. PHOSPHORUS (Quarterly)	TOTAL NITROGEN (Quarterly)	SMI TOTAL NITROGEN (Quarterly)	T.R. CADMIUM (Quarterly)	T.R. COPPER (Quarterly)
1	4.479	7.54			3.6		17.9											
2	2.785	7.54			4.8		17.7											
3	1.776	7.69	4.3	3.5	5.6		17.6											
4	1.903	7.67			5.6		16.9											
5	1.918	7.70			5.7		16.6											
6	1.756	7.73			5.6		17.7	< 20	< 4.9	< 1.0	234	277						
7	1.753	7.77			6.0	0.04	18.4											
8	1.795	7.63			5.8		19.0											
9	1.612	7.71			5.3		18.3											
10	1.578	7.72	1.9	2.2	6.3		17.4											
11	1.643	7.74			6.3		16.2											
12	1.811	7.65			6.1		16.6											
13	1.529	7.62			6.2		16.6	< 20										
14	1.488	7.63			6.3		17.7											
15	1.545	7.64			5.8		18.5											
16	1.702	7.60			5.8	0.12	19.8											
17	1.652	7.55	1.3	2.5	5.9		20.5											
18	1.790	7.64			5.5		20.6											
19	1.925	7.59			5.1		20.1											
20	1.635	7.63			5.4		19.7	< 20										
21	2.570	7.66			5.0		18.7											
22	3.005	7.59			5.4	0.4	19.0											
23	2.053	7.57			5.4		19.8											
24	2.119	7.65	1.6	1.9	5.4		20.8											
25	2.125	7.75			5.2		21.6											
26	2.384	7.61			5.4		21.5											
27	2.458	7.66			5.8		21.5											
28	2.157	7.91			4.6		22.8	< 20										
29	1.676	7.69			5.5	0.05	24.0											
30	1.626	7.74			5.0		22.1											
31	1.733	7.78	1.4	1.8	6.0		22.2											
TOTAL	61.981	238	10.5	11.9	171	0.61	598	< 20	< 4.9	< 1.0	234	277	0	0	0	0	0	0
MAX	4.479	7.91	4.3	3.5	6.3	0.4	24	< 20	< 4.9	< 1.0	234	277	0	0	0	0	0	0
MIN	1.488	7.54	1.3	1.8	3.6	0.04	16.2	< 20	< 4.9	< 1.0	234	277	0	0	0	0	0	0
AVG	1.999	7.66	2.1	2.4	5.5	0.15	19.3	< 20	< 4.9	< 1.0	234	277	0.0	0.0	0.0	0.0	0.0	0.0

DATE	RETURN SLUDGE: FLOW (gallons)	SUSPENDED SOLIDS (mg/l)	WASTE SLUDGE TO STORAGE: FLOW (gallons)	WASTED DRY LBS
1	0	14,755	45,000	5,538
2	0	29,185		
3	0	8,235	45,000	3,091
4	0	12,950		
5	0	6,865		
6	0	9,870		
7	0	9,525		
8	0	14,200	45,000	5,329
9	0	10,110		
10	0	9,190		
11	0	6,020		
12	0	6,845		
13	0	11,745	45,000	4,408
14	0	8,685		
15	0	13,830		
16	0	9,055		
17	0	9,645		
18	0	10,995		
19	0	10,010		
20	0	10,100	45,000	3,791
21	0	14,880	45,000	5,584
22	0	10,505		
23	0	10,655		
24	0	10,215	45,000	3,834
25	0	8,100		
26	0	9,100		
27	0	10,835		
28	0	19,280	90,000	14,472
29	0	11,190		
30	0	6,115		
31	0	11,660		
TOTAL	0	344,350	405,000	46,047
MAX	0	29,185	90,000	14,472
MIN	0	6,020	45,000	3,091
AVG	0.000	11,108	50,625	5,756

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

Prepared by GH, JH, DH

Approved by GH

Date 6/5/2019

Alliance WATER RESOURCES
Professional Water and Wastewater Operations

Bids for 3 - Replacement ABBA Impellers for RAS Pumps

Bidder	Budget	Total Bid	Equipment
ABBA Pump Parts & Ser.	$7,000.00	$7,866.00	ABBA Cast Iron Impeller FMA-04001-00431-101-Q
			w/ wear rings & gaskets
JCI Industries, Inc.	"	$7,866.00	ABBA Cast Iron Impeller FMA-04001-00431-101-Q
			w/ wear rings & gaskets
Letts, Van Kirk &	"	$6,999.00	ABBA Cast Iron Impeller FMA-04001-00431-101-Q
Associates			w/ wear rings & gaskets

Freight is not included in price.