OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
SEPTEMBER 18, 2018 @ 4:00 p.m.
LAKE OZARK CITY HALL

1. CALL TO ORDER

2. ROLL CALL

Mayor, Lake Ozark, Johnnie Franzeskos
Mayor, Osage Beach, John Olivarri
City Administrator, Osage Beach, Jeana Woods
City Administrator, Lake Ozark, Dave Van Dee
Alderman, Lake Ozark, Gerry Murawski
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

	Page Numbers
A. Regular Meeting: August 21, 2018	3-4

4. REPORTS

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August 2018 Alliance Report of Operations	35-51
Approval of August Flow Chart	

5. OLD BUSINESS

A. Report of Contract Review Sub Committee

B. Discussion and possible action regarding the Generator Project.

C. Discussion and possible action on insurance for snow plow.

6. NEW BUSINESS

7. ADDITIONAL DISCUSSION ITEMS

8. ADJOURNMENT

THE NEXT MEETING WILL BE OCTOBER 16, 2018, 4:00 PM @ LAKE OZARK CITY HALL

LAKE OZARK-OSAGE BEACH
JOINT SEWER BOARD
Meeting Minutes – August 21, 2018

CALL TO ORDER:
Mayor Johnnie Franzeskos called the meeting to order at 4:00pm on Tuesday, August 21, 2018 at Lake Ozark City Hall

ROLL CALL:
Mayor, Lake Ozark, Johnnie Franzeskos - Present
Mayor, Osage Beach, John Olivarri- Present
City Administrator Osage Beach, Jeana Woods - Present
City Administrator Lake Ozark, Dave Van Dee – Present
Alderman Osage Beach, Greg Massey - Absent
Alderman Lake Ozark, Gerry Murawski - 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 Woods motioned to approve the meeting minutes of July 17, 2018. The motion was seconded by City Administrator Van Dee. The motion passed unanimously.

Mayor Olivarri motioned to approve the special meeting minutes of July 26, 2018. The motion was seconded by Public Works Director Edelman.

REPORTS:
City Administrator Woods motion to approve the July Bills List. The motion was seconded by City Administrator Van Dee. The motion passed unanimously.

The July Revenue Budget, Expenditure Budget Analysis, Income & Expense Summary and Check Registers and Bank Statements were reviewed. Motion was made by Alderman Murawski to acknowledge the review of the documents. Seconded by Mayor Olivarri. The Motion passed unanimously.

Alliance Report of Operations: The average daily incoming flow for July was 2.227 mgd. We had 2.7 inches of precipitation measured at the WWTP in July.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD of 1.8 mg/l and TSS of 1.7 mg/l respectively for July, which represents a 99.1% or better removal.

The MLSS average for both aeration basins was 5,111 mg/l in July. The total dry weight sludge inventory for July totaled 242,026 pounds. There were 126 tanker loads of biosolids or 466,200 gallons land applied in July. We also received 42 tanker loads or 107,000 gallons of septage for the month of July.

APPROVAL OF FLOW CHART

Motion was made by Public Works Director Edelman to approve the Flow Chart, seconded by Public Works Director Michalik, motion passed unanimously.

OLD BUSINESS:

A. Report of Contract renewal committee to consider the Alliance Contract. Public Works Director Edelman advised they have chosen Alliance and will work in negotiating a contract for the future

B. Report of action regarding the generator project. Public Works Director Michalik stated Nick, Gary and himself have narrowed it to 2 firms Martin and Empire. Their recommendation is to proceed with Martin Energy. They will negotiate a contract and will bring to the board to proceed.

NEW BUSINESS:

A. Report of action regarding the surplus sale of the Coleman Pressure washer, John Deere Riding Mower, and 2001 Dodge Dakota Pickup. A motion to approve the auction of these items was made by City Administrator Van Dee, seconded by Alderman Murawski, motion passed unanimously.

B. Report on the possible action on replacement Doors. Alliance received several bids to replace the doors. A motion to go with Jeffries Construction was made by Mayor Olivarri, seconded by City Administrator Woods, motion passed unanimously.

C. Report on the possible action for insurance for the snow plow. It was determined the plow is covered while on the truck but not when off. Kerri Bell stated she will look further into this and see if it's covered under the property insurance when not on the truck. She will bring it back to the board in September.

ADJOURNMENT:

With no further business to discuss, a motion to adjourn was made by Alderman Murawski. His motion was seconded by City Administrator Van Dee and was passed unanimously. The meeting adjourned at 4:16 pm.

Approved On: September 18, 2018

Mayor, Johnnie Franzeskos

City Collector, Trisha Kane

JOINT SEWER BOARD
BILL LIST
SEPTEMBER 18, 2018

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	$	1,073.00
OPERATING FUND BILLS TO BE PAID:	$	45,631.65
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	$	-
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	$	-
TOTAL	$	46,704.65

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:		Amount:
4140	3680	Naught Naught	Add 2018 Ford F250 - Prorated	$	1,073.00
				$	-
				$	-
				$	-
				$	-
				$	-
			TOTAL	$	1,073.00

OPERATING FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:		Amount:
4185	3681	Ameren MO	August Service	$	10,399.56
4000	3682	Equipment Replacement Fund	Payment into ER Fund	$	3,467.00
4170	3683	Alliance Water Resources, Inc.	Management Fee	$	26,584.22
4160	3684	Alliance Water Resources, Inc.	Hauled Waste	$	1,500.00
4020	3685	Alliance Water Resources, Inc.	maintenance and repair misc.	$	1,266.06
4150	3686	Roemer's Heavy Equip	1994 GMC radiator, A/C	$	2,007.41
4020	3687	Mission Communications, LLC	Auto dialer yearly service	$	407.40
				$	-
			TOTAL	$	45,631.65

EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:

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

EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:

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

Naught-Naught/Osage Beach, MO
P. O. Box 187
Osage Beach, MO 65065
Phone: 573-348-2794

INVOICE NO. 211396		Page 1
ACCOUNT NO.	OP	DATE
LAKE-33	T5	08/15/2018
Commercial Automobile		
POLICY #		LOAN #
ETA 0484322		
COMPANY		
Cincinnati Insurance Company		
PRODUCER		
Steve Naught		
EFFECTIVE	EXPIRATION	BALANCE DUE ON
04/10/2018	04/10/2019	

Lake Ozark-Osage Beach Joint
Sewer Treatment Plant
1000 City Parkway
Osage Beach, MO 65065

Itm #	Due Date	Trn	Type	Description	Amount
9CHZJ9	08/15/18	+EN	CA-S	Add 2018 Ford F250 #4283	$1,073.00
				Invoice Balance:	$1,073.00

*

Ameren MISSOURI

AmerenMissouri.com
1.877.426.3736
PO Box 88068 Chicago, IL 60680-1068
Ameren payment processing center

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 09/07/2018

Total Electric Charges	$10,214.13
Total Amount Due	**$10,214.13**

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

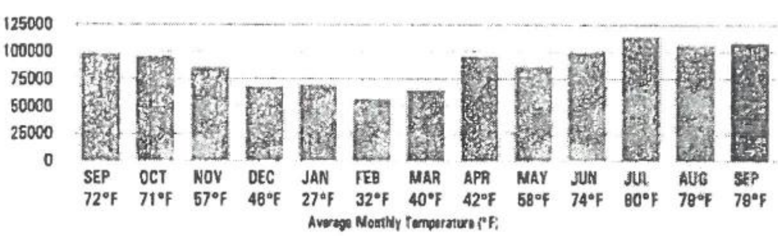
AMOUNT DUE	**$10,214.13**
Due Date	**09/28/2018**
Amount After Due Date	$10,367.34
Previous Statement	$10,283.64
Total Payments	$10,283.64

Payment Received. Thank You.

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

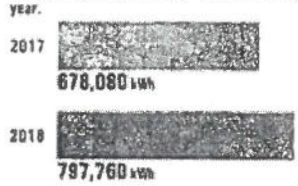
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using **17.6% more** than last year.



Usage from Jan-Sep for 2017 & 2018

40949 13073
00272 6005638 000535 001008 000 / 00002

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

RECEIVED SEP 07 2018

» 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
$10,214.13	September 28, 2018
Delinquent Amount After Due Date	**Account Number**
$10,367.34	4580005832

Amount Enclosed $ ____________________

>000272 6005638 0001 092139 10Z

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

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

00600000 0045800058302 000010214130 000010214130

Ameren
MISSOURI

- AmerenMissouri.com
- 1.877.426.3736
- PO Box 88068 Chicago, IL 60680-1068

Ameren payment processing center

FOCUSED ENERGY. *For Life.*

Electric Service Details — Service from 08/06/2018 - 09/05/2018 (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	08/06 - 08/05	30	Total kWh	Actual	49087.0000	48413.0000	674.0000	160.0000	107840.0000
11673321	08/06 - 08/05	30	Peak kW	Actual	1.3820	0.0000	1.3820	160.0000	221.1200

Usage Summary

Total kWh	107840.0000	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	30,455.00	kWh	@	$ 0.05350000	$1,629.34
Customer Charge					$95.07
Fuel Adjustment Charge	107,840.00	kWh	@	$ 0.00231000	$249.11
Energy Efficiency Program Charge	107,840.00	kWh	@	$ 0.00030000	$32.35
Energy Efficiency Investment Charge	107,840.00	kWh	@	$ 0.00448800	$483.77
Federal Tax Rate Reduction	107,840.00	kWh	@	$-0.00462000	$-498.22
				Total Service Amount	**$10,214.13**
				Total Electric Charges	**$10,214.13**

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
August 27, 2018	$10,283.64

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

- AmerenMissouri.com
- 1.877.426.3736
- PO Box 88068 Chicago, IL 60680-1068
  Ameren payment processing center

FOCUSED ENERGY. *For Life.*

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

Current Detail for Statement 09/07/2018

Total Electric Charges	$185.43
Total Amount Due	**$185.43**

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

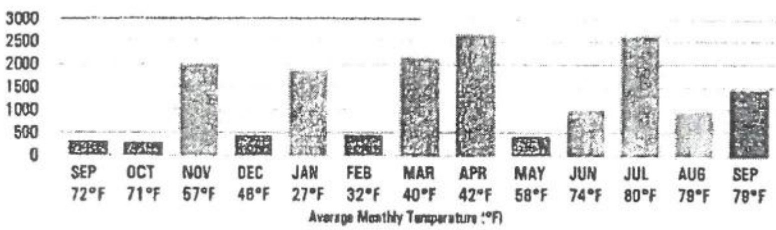
AMOUNT DUE	**$185.43**
Due Date	**09/28/2018**
Amount After Due Date	$188.21
Previous Statement	$133.25
Total Payments	$133.25

Payment Received! Thank You.

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

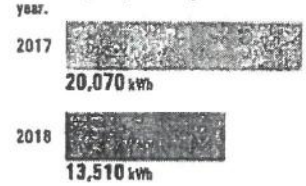
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using **32.7% less** than last year.



Usage from Jan-Sep for 2017 & 2018

48849 13073
00218 6005838 000427 000853 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**.

RECEIVED SEP 07 2018

» 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
$185.43	September 28, 2018
Delinquent Amount After Due Date	**Account Number**
$188.21	5580005920

Amount Enclosed $ ________________

>000218 6005638 0001 092139 10Z

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

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

30633000 0055800059200 000000185430 000000185430

Ameren
MISSOURI

- AmerenMissouri.com
- 1.877.426.3736
- PO Box 88068 Chicago, IL 60680-1068

Ameren payment processing center

FOCUSED ENERGY. *For Life.*

Electric Service Details

Service from 08/06/2018 - 09/05/2018 (30 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
88041275	08/08 - 08/05	30	Total kWh	Actual	17583.0000	17438.0000	145.0000	10.0000	1450.0000
88041275	08/08 - 08/05	30	Peak kW	Actual	4.8860	0.0000	4.8860	10.0000	48.8600

Usage Summary

Total kWh	1450.0000

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

Threshold - Peak Demand

DESCRIPTION	USAGE	UNIT		RATE	CHARGE
Total Energy Charge	1,450.00	kWh	@	$ 0.11200000	$162.40
Customer Charge					$21.43
Fuel Adjustment Charge	1,450.00	kWh	@	$ 0.00231000	$3.35
Energy Efficiency Program Charge	1,450.00	kWh	@	$ 0.00010000	$0.15
Energy Efficiency Investment Charge	1,450.00	kWh	@	$ 0.00449800	$6.52
Federal Tax Rate Reduction	1,450.00	kWh	@	$-0.00581000	$-8.42
				Total Service Amount	$185.43
				Total Electric Charges	**$185.43**

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
August 27, 2018	$133.25

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

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:	7899
Invoice Date:	1-Sep-18
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:	Sep-2018	
	Base Fee		$26,584.22
		TOTAL DUE	$26,584.22

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:	8018
Invoice Date:	31-Aug-18
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
	Hauled waste payments for the month of	Aug-2018	
	30 Hauled Waste Loads @ $50.00 each		$1,500.00

TOTAL DUE $1,500.00

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:	**8000**
Invoice Date:	**1-Sep-18**
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
	O'Reilly - Invoice # 4046-167578 - 50% 4020	$82.00
	Accurate Superior Scale - Invoice # 1807320-IN - 50% 4020	$79.60
	SuperBreakers - Invoice # 100127490 - 50% 4020	$93.01
	Jani-King - Invoice # CLM09180141 - 50% 4020	$97.50
	Grainger - Invoice # 9892171290 - 50% 4020	$229.88
	Contolled Heating & Cooling - Invoice # 80713144911 - 50% 4020	$55.00
	Ovivo - Invoice # 8474324 - 50% 4020	$307.13
	Core & Main - Invoice # J226168 - 50% 4020	$321.94
	TOTAL DUE	**$1,266.06**

O'Reilly FIRST CALL

DEDICATED TO THE PROFESSIONAL

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

Invoice	4046-167578
Sale Type	CHARGE SALE
Date	08/02/2018 1:05 PM
Ship Via	
PO Number	Gary

Bill To:

ALLIANCE WATER RESOURCES
#3 ANDERSON RD
206 S KEENE ST
COLUMBIA, MO 65201
(573) 365-0455

Counter #	Customer Account	Ordered By	Special Instructions
93	192183	GARY	

Qty	Line	Item Number	Description	Warr	Unit	Tax	List	Net	Extended
1	WIX	42886	AIR FILTER	1Y	EA	T1	277.95	163.99	163.99

RECEIVED
AUG 0 2 2018

FOR BLOWER @ DIGESTER'S

AUG 0 3 2018
Columbia

GL Acct#: 6705-20 $94.25 1220-20 $82.00
Signature: [signature]
Date: 8/2/18

4020

1 Item

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

Sub-Total	163.99
Sales Tax	12.26
Total	176.25

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

ACCURATE SUPERIOR SCALE

INDUSTRIAL

WEIGHING EQUIPMENT

5404 Jedmed Ct. • St Louis, MO 63129
Bus: (314) 845-7778 • Fax: (314) 845-7779

ISO/IEC 17025 2005

PAGE: 1

INVOICE

Remit to: P. O. Box 959823
St. Louis, MO 63195

INVOICE NUMBER: 1807320-IN
INVOICE DATE: 08/14/18

SALES TAX CODE: MO

ALLIANCE WATER RESOURCES
#3 ANDERSON ROAD
P. O. BOX 1985
Lake Ozark MO 65049
CONTACT:

CUSTOMER NO: ALLIAWO
CUSTOMER P.O.:
SHIP VIA:

TERMS: NET 15 DAYS

SALES CD	DESCRIPTION		QUANTITY	PRICE	AMOUNT
	INSPECT AND TEST SCALE AND WEIGHTS				
LAB09	INSPECTION CHARGE	EACH	1.000	150.000	150.00
COMP	REG FEE	EACH	1.000	9.200	9.20

RECEIVED
AUG 2 0 2018

GL Acct#: 6705-20 $79.60 1220-20 $79.60

Signature: [signature]

4020

Date: 8/20/18

NET INVOICE:	159.20
FREIGHT:	.00
SALES TAX:	.00
INVOICE TOTAL:	159.20

Gary Hutchcraft

From:	SUPERBREAKERS <info@superbreakers.net>
Sent:	Friday, August 3, 2018 9:03 AM
To:	Gary Hutchcraft
Subject:	SuperBreakers Sales Receipt ## 100127490

SUPERBREAKERS

Thousands of Items. Super Low Prices.

Thank you for your purchase, Alliance Water!

RECEIVED AUG 06 2018

Order Number: 100127490

SP

Sign Up & Save
Join the free SuperClub and earn points to discount future purchases. **Learn more.**

Billing Address

Alliance Water Resources
Attn Gary
3 Anderson Road
Lake Ozark, Missouri, 65049
United States
T: 573-216-8398

Shipping Address

Alliance Water Resources
Attn Gary
3 Anderson Road
Lake Ozark, Missouri, 65049
United States
T: 573-216-8398

Payment Information

Payment Method: Credit Card
Card Number (Last 4): 1719
Credit Card Type: MasterCard

Shipping Information

Shipping Method: UPS - UPS Next Day Air

E49 - Siemens / ITE Overload Relay Heater	E49	6	$109.50
		Subtotal	$109.50
		Shipping	$76.52
		Grand Total	$186.02

GL Acct#: 6705-20#93.01 1220-20#93.01

Signature: Gary Hutchcraft

Date: 8/6/18

1

4020

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

Invoice	
Date	Number
09/01/2018	CLM09180141
Due Date	Cust #
09/30/2018	022031
Invoice Amount	Amount Remitted
$ 195.00	

Sold To:
ALLIANCE WATER

3 ANDERSON RD

LAKE OZARK MO 65049

For:
Same as Sold To

RECEIVED
AUG 3 1 2018

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

Sold To:
ALLIANCE WATER
3 ANDERSON RD
LAKE OZARK MO 65049

For:
Same as Sold To

Invoice No	Date	Cust No	Slsmn No	PO Number	Franchisee	Due Date
CLM09180141	09/01/2018	022031			RJ ENTERPRISES, LLC	09/30/2018

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

GL Acct#: 6700-20 $97.50 1220-80 $97.50
Signature: [signature]
Date: 8/31/18

4020

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

AUG 3 1 2018
COLUMBIA

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

GRAINGER.

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

PAGE 1

ORIGINAL INVOICE

GRAINGER ACCOUNT NUMBER	858374764
INVOICE NUMBER	9892171290
INVOICE DATE	08/30/2018
DUE DATE	09/29/2018
AMOUNT DUE	$497.69

SHIP TO

ALLIANCE WATER RESOURCES
3 ANDERSON RD
LAKE OZARK MO 65049-0000

PO NUMBER:	GARY HUTCHCRAFT
CALLER:	GARY HUTCHCRAFT
CUSTOMER PHONE:	5733650455
ORDER NUMBER:	1330179671
INCO TERMS:	FOB ORIGIN

RECEIVED AUG 3 1 2018

BILL TO
ALLIANCE WATER RESOURCES
PO BOX 1985
LAKE OZARK MO 65049-1985

Pay invoices online at:
www.grainger.com/invoicing

THANK YOU! FEI NUMBER 36-1150280
FOR QUESTIONS ABOUT THIS INVOICE OR ACCOUNT CALL *1-800-472-4643*

PO LINE #	ITEM #	DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL
	5B067	LIMIT SWITCH LEVER ARM ROD,12 IN. ARM L MANUFACTURER # 9007FA5	1	49.50	49.50
	5B087	HEAVY DUTY LIMIT SWITCH MANUFACTURER # 9007C54B2	2	199.00	398.00
		Delivery #8407638412 Date Shipped:08/30/2018 Carrier: UPS GROUND No:of Pkgs: Wt: 2.650 Trk #:1Z6812780356908720 SHIPPED FROM: DC KANSAS CITY 002 11200 E. 210 HWY,KANSAS CITY,MO 64161-9370 FOR CLARIFIERS 1+2			
		GL Acct#: 6705-20 $267.81 1220-20 $229.88			
		Signature: [signature]		4020	AUG 3 1 2018
		Date: 8/31/18			COLUMBIA

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	447.50
SHIPPING	12.25
TAX	37.94

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

PAY THIS INVOICE; NO STATEMENT WILL BE SENT. PAYMENT TERMS Net30 days IN U.S. DOLLARS.

AMOUNT DUE *$497.69*

PLEASE DETACH THIS PORTION AND RETURN WITH YOUR PAYMENT

BILL TO:

ALLIANCE WATER RESOURCES
PO BOX 1985
LAKE OZARK MO 65049-1985
UNITED STATES OF AMERICA

REMIT TO:
GRAINGER
DEPT. 858374764
P.O. BOX 419267
KANSAS CITY, MO 64141-6267

858374764989217129010000497691000379410001225100000018092977

X

ACCOUNT NUMBER	DATE	INVOICE NUMBER	AMOUNT DUE
858374764	08/30/2018	9892171290	$497.69

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

CONTROLLED HEATING & COOLING CO.
883 E. HIGHWAY 42
SUITE A
OSAGE BEACH, MO 65065
573-348-1535

Invoice

Date	Invoice #
7/13/2018	80713144911

Bill To
Alliance Water Resources P.O. Box 1985 Lake Ozark, MO 65049

Celebrating 35 Years
1983 - 2018

RECEIVED
AUG 2 7 2018

P.O. No.	Terms	Project
	Due on receipt	

Description	Qty	Rate	Amount
DISSASEMBLE AND WASH OUT GE WINDOW AC. UNIT WAS CLOGGED UP WITH BUGS. CHECK OPERATION. UNIT RUNNING GOOD	1	110.00	110.00
UV system AC unit			
GL Acct#: 6705-20 $55.00 1220-20 $55.00			
Signature: [signature]		4020	
Date: 8/27/18			
		AUG 31 2018 COLUMBIA	
Thank you for your business.	Total		$110.00

OVIVO®

Worldwide Experts in Water Treatment
Ovivo USA, LLC
4246 Riverboat Road, Suite 300
Salt Lake City, UT 84123
Phone: (801)931-3000
Fax: (801)931-3080

REMIT TO VIA CHECK

Ovivo USA, LLC
P.O. Box 673076
Detroit, MI 48267-3076

REMIT TO VIA WIRE

Comerica Bank
Comerica Bank Center
411 West Lafayette
Detroit, MI 48226
Account #: 1851855104
Routing #: 072000096
SWIFT #: MNBDUS33
Telex: 3772134 MNB INTL DET

INVOICE NO

8474324

Page: 1 of 1

Date: 08/02/2018

BILL TO
102912
Alliance Water Resources, Inc.
#3 Anderson Road
P.O. Box 1985
Lake Ozark MO 65049
USA

SHIP TO
0
Alliance Water Resources, Inc.
#3 Anderson Road
P.O. Box 1985
Lake Ozark MO 65049
USA

RECEIVED
AUG 06 2018

Order	Customer PO	Ship Via	Terms	Currency
SSW0010000	EMAIL/VERBAL	Freight Allowed	Net 30 days	USD

Line	Item/Description	Qty Ordered	Qty Shipped	Qty Back Ord	U/M	Unit Price	Extended Price
1	23276C332X SHAFT SEAL, REDUCER SN D07.512.221-1-4 Date Shipped: 07/06/2018	6.00	6.00	0.00	EA	78.5700	471.42
2	23276C332X1 SCREW.CONN, REDUCER SN D07.512.221-1 Date Shipped: 07/06/2018	4.00	4.00	0.00	EA	35.7100	142.84

GL Acct#: 6705-20 $307.13 1220-20 $307.13

Signature: [signature]

Date: 8/6/18

4020

FOR AERATORS

Your point of contact is:

Mark Williams
Product Manager
Aeration Process Group
Email: mark.williams@ovivowater.com
Phone: 801-931-3037

AUG 31 2018

COLUMBIA

1. Shipment: Approximately 5-6 WEEKS after receipt of purchase order and any required data. Lead times can vary depending on time of order placement and current inventory levels.
2. Quantities: The prices are based on the quantities shown and are subject to increase if a lesser quantity is required.
3. FCA: shipping point
4. Freight: ALLOWED, standard ground shipping only.
5. Packing: Made ready for standard transport.
6. Items quoted per customer provided part numbers.
7. This quote is valid for 30 Days. However, stainless steel parts pricing is valid for 10 days.
8. All sales are final.

ORIGINAL

Sales Amount	614.26
Misc Charges	0.00
Freight	0.00
Sales Tax	0.00
	0.00
Prepaid Amount	0.00
Total	614.26

WE HEREBY CERTIFY THAT THESE GOODS WERE PRODUCED IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF SECTION 6, 7, & 12 OF THE FAIR LABOR STANDARDS ACT AS AMENDED AND REGULATONS AND ORDERS OF THE UNITED STATES DEPARTMENT OF LABOR ISSUED UNDER SECTION 14 THEREOF.
MATERIAL RETURN POLICY: WRITTEN AUTHORIZATION IS REQUIRED FOR ALL RETURNED MATERIAL. MATERIAL MUST BE RETURNED F.O.B. TO OUR PLANT OF ORIGIN.

CORE & MAIN

INVOICE

1830 Craig Park Court
St. Louis, MO 63146

Invoice #	J226168
Invoice Date	7/31/18
Account #	116902
Sales Rep	STEVEN BURKE
Phone #	573-348-1273
Branch # 138	Osage Beach, MO
Total Amount Due	$692.00

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

13578 1 MB 0.424 E0460X I0541 D3881003420 S2 P5586504 0001:0001

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

Shipped to:

CUSTOMER PICK-UP -

RECEIVED
AUG 10 2018

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 #
7/23/18	7/30/18	STOCK	STOCK			YOUR TRUCK	J226168

Product Code	Description	Quantity Ordered	Quantity Shipped	B/O	Price	UM	Extended Price
/80015381052	#48200 DIGESTASE SDE 340 – Ditches for excess grease	1	1		172.95000	EA	172.95
/80015381053	#23913 DURA-FLOAT MECHANICAL – Lift stations		4		58.23000	EA	232.92
96CHL100	100# DRUM GRANULAR CHLORINE – For cleaning clarifiers	1	1		238.00000	EA	238.00

GL Acct#: 6705-20 $370.06 1220-20 $321.94
Signature: Gary Hutchison
Date: 8/10/18

4020

HD SUPPLY WATERWORKS IS NOW:

CORE & MAIN

Freight	Delivery	Handling	Restock	Misc.

Terms: NET 30 Ordered By: GARY

Subtotal	643.87
Other:	0.00
Tax:	48.13
Invoice Total	$692.00

0001:0001

QTY	PART NO. AND DESCRIPTION	PRICE		
1	42104C Radiator		908	00
1	3/4 x 4 Bolt		8	33
1	3/4 lock nut		2	28
2	3/4 flat washers	91	1	82

GL Acct#: 4150

Signature: [illegible]

Date: 8/29/18

(MAY BE CONTINUED ON OTHER SIDE) **TOTAL PARTS** 920 43

ACCESSORIES		
3lbs 134A FREON	16	80
TOTAL ACCESSORIES		

ROEMER'S HEAVY EQUIPMENT & TRUCK REPAIR
P.O. Box 191
Osage Beach, Missouri 65065
(573) 348-3733

RECEIVED AUG 29 2018

421

CUSTOMER SERVICE NO. | DATE 8-24-18

NAME: JOINT SEWER BOARD

ADDRESS: PO Box 1985

ORDER WRITTEN BY: LR

PROMISED: A.M. P.M.

CITY, STATE, ZIP: Lake Ozark Mo 65049

HOME PHONE | BUSINESS PHONE | EXT. | ODOMETER IN

YEAR, MAKE AND MODEL: 94 GMC | LICENSE NUMBER | ODOMETER OUT

SERIAL NUMBER: 833094 | MOTOR NUMBER | TERMS: Net 10

DESCRIPTION OF WORK | **AMOUNT**

☐ LUBE ☐ CHANGE OIL ☐ OIL FILTER ☐ TUNE-UP ☐ TRANS. ☐ DIFF.

CHECK Coolant LEAK on Engine
Found LEAK in Radiator, Drain System,
Remove AC Compressor, Engine Fan + Mount,
Remove And Replace Radiator And
Reassemble, Charge AC. System, Fill
with Coolant, Run + CHECK FOR LEAKS.

LITERS/GALS. OF GAS @		TOTAL LABOR	135 00
LITERS/QTS. OF OIL @		TOTAL PARTS	920 43
kg/LBS OF GREASE @		ACCESSORIES	16 80
2 GALS. ANTIFREEZE	45 18	~~GAS, OIL & GREASE~~ Antifreeze	45 18
Freight	90.00	SUBLET REPAIRS	
		EPA/WASTE DISPOSAL	
		Freight	90 00
		TAX	-0-
		TOTAL	2007 41

I hereby authorize the above repair work to be done along with the necessary materials. You and your employees may operate above vehicle for purposes of testing, inspection, or delivery at my risk. An express mechanics lien acknowledged on above vehicle to secure the amount of repairs thereto. It is also understood that you will not be held responsible for loss or damage to cars or articles left in cars in case of fire, theft or any other cause beyond your control.

SAVE OLD PARTS? ☐ YES ☐ NO

SIGNATURE

THANK YOU!

MISSION COMMUNICATIONS

Mission Communications, LLC
3170 Reps Miller Rd
Suite 190
Norcross, GA 30071-5403
Phone: 678-969-0021
Fax: 678-969-0541

PLEASE UPDATE TO OUR NEW ADDRESS

INVOICE

Invoice Date
9/5/2018
Invoice Number
1023295

Bill To
The Joint Sewer Board
Accounts Payable/Gary Hutchcraft
P. O. Box 1985
Lake Ozark, MO 65049

Ship To

RECEIVED SEP 11 2018

CUSTOMER PO		END USER		SHIPPING METHOD		DUE DATE	
Annual Service						10/5/2018	
S.O. No.		SALES REP ID	TERRITORY	SHIP DATE		PAYMENT TERMS	
		HK MW	C	9/5/2018		Net 30	

QTY	Item	Description	Serial No.	Unit Name	Svc. Start	Svc. End	Unit Price	Extension
1	SP110-12RX	Service Package - M110 Series With Option Board - 1 year, NON-SHIP, Renewal..	689MIS9752	Waste Water Treatmen...	10/1/2018	9/30/2019	407.40	407.40

Please make checks payable to Mission Communications, LLC

For your convenience Mission accepts credit cards. Card payments less than $3,000 received within (7) days of the invoice date may avoid the 3% credit card processing fee.

If you have any questions concerning this invoice please contact our accounting department, 877-993-1911 option 5, accounting@123mc.com

Subtotal	USD 407.40
Sales Tax (0.0%)	USD 0.00
Payment Received	USD 0.00
Balance Due	USD 407.40

Mission provides this service according to the published provisions under Mission's customer service agreement and terms of use.

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MONTH-TO-DATE AND YEAR-TO-DATE

REVENUE/BUDGET ANALYSIS

8/31/2018

Account Number	Account Name	2016 Actual	2017 Actual	2018 Budget	2018 Actual as of 8/31/2018	2018 August Revenue	Percent YTD
3020	Osage Beach	475,802.57	478,614.41	478,500.00	321,305.07	40,221.13	67%
3010	Lake Ozark	74,197.42	71,385.58	71,500.00	45,361.58	5,612.20	63%
3100	Interest	368.52	781.57	500.00	778.26	98.58	156%
3060	Waste Haulers' Fee	33,460.00	30,500.00	34,500.00	15,560.00	3,000.00	45%
	Total Operating Fund	583,828.51	581,281.56	585,000.00	383,004.91	48,931.91	65%
	E/R Fund Income	2,847.67	2,319.07	2,300.00	2,962.29	162.51	129%
	TOTAL INCOME	586,676.18	583,600.63	587,300.00	385,967.20	49,094.42	66%

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MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
8/31/2018

Account Number	Account Name	2016 Acutal	2017 Acutal	2018 Budget	2018 Actual as of 8/31/2018	2018 August Expenses	Percent YTD
4000	Equipment Replace Fund	41,606.04	41,604.17	41,604.00	27,736.17	3,467.00	67%
4010	ERF Repayment	0.00	0.00	0.00	0.00	0.00	0%
4020	*Maintenance & Repair	18,735.50	129,789.11	115,000.00	4,873.31	163.56	4%
4140	Insurance	16,977.00	17,144.00	17,600.00	18,475.25	1,073.00	105%
4150	Vehicle Repair/Maint	951.93	12,047.61	3,000.00	1,453.82	282.41	48%
4160	Haulers Fees to Contractor	8,000.00	8,000.00	8,000.00	6,280.00	2,140.00	79%
4170	Contract Management	303,638.88	311,229.84	320,566.84	212,673.76	26,584.22	66%
4185	Electric	72,637.17	69,261.90	75,000.00	54,401.24	10,416.89	73%
4190	Bank Charges	14.85	24.35	0.00	0.00	6.00	0%
4200	Audit	2,158.50	2,200.00	2,300.00	2,300.00	0.00	100%
4220	Professional Service	9,193.09	1,200.00	1,200.00	0.00	0.00	0%
4240	Capital Purchases	0.00	0.00	150,000.00	0.00	0.00	0%
	Totals	473,912.96	592,500.98	734,270.84	328,193.55	44,133.08	45%
	**E/R Expenses	7,980.42	7,554.68	67,500.00	29,462.00	29,462.00	44%
	TOTAL EXPENSES	481,893.38	600,055.66	801,770.84	357,655.55	73,595.08	45%

**Equipment & Replacement	
Pickup 4X4 w/snow plow	35,000.00 X
Replace Actuator	9,000.00
Replace ducking skimmer arm	5,000.00
Replace wooden doors	2,000.00
Replace LED parking lot lights	9,000.00
Replace impellers for RAS pump	7,500.00
	67,500.00

*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
Rock for Road	2,000.00
Sandblast & paint Clarifier #3	95,000.00
	-
	115,000.00

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OPERATING FUND INCOME AND EXPENSE SUMMARY
8/31/2018

Beginning Balance	**327,904.11**
Income - Osage Beach	40,221.13
Income - Lake Ozark	5,612.20
Income - Other	-
Income - Waste Haulers' Fees	3,000.00
Interest - Checking	
Income - CD Interest	98.58
Transfers From E/R Fund	-
Transfers to E/R Fund	(3,467.00)
Expenses	(40,666.08)
Ending Fund Balance	**332,702.94**
Central Bank - NOW Acct.	106,060.05
CD Central Bank, 12/18 #150784	75,000.00
First Bank of the Lake - Money Mkt.	101,291.97
CD St. Elizabeth, 3/19 #400886	50,350.92
Outstanding Checks:	-
Deposit in Transit:	-
	332,702.94

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
8/31/2018

Beginning Balance	**550,694.86**
Interest - Checking	162.51
Income - CD Interest	-
Transfers From E/R Fund	3,467.00
Transfers to E/R Fund	-
Income - Miscellaneous	-
Expenses	(29,462.00)
Ending Fund Balance	**524,862.37**
First Bank of the Lake - Money Mkt.	168,111.82
CD Providence Bank, 7/19 #1268880	203,934.35
CD First Bank of the Lake, 01/18 #101318429	102,465.28
CD St. Elizabeth, 3/19 #485431	50,350.92
Deposit in Transit	-
Outstanding Checks:	-
	524,862.37

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E/N

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

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

Period	Page
08/01/2018 - 08/31/2018	1 of 3

Web Address
www.centralbank.net

M
0000

Your Financial Summary on August 31, 2018

		Bank Deposits		Totals
Bank Deposit Accounts:				
Checking	$	106,060.05		
Certificates of Deposit	$	75,000.00		
Bank Deposit Total			$	181,060.05
Total Assets:	$	181,060.05	$	181,060.05

Detailed Explanation of Account Balances and Other Assets

Basic Plus Interest Checking

No. 000007297	Beginning Balance July 31, 2018	$	101,346.11

Deposits

Aug. 21	Deposit	5,612.20
Aug. 21	Deposit	40,221.13
Aug. 22	Deposit	3,000.00
Aug. 31	Interest Earned	13.69
	Total +$	48,847.02

Checks

Check No.	Date Paid	Amount	Check No.	Date Paid	Amount
3675	Aug. 28	10,416.89	3678	Aug. 23	2,140.00
3676	Aug. 23	3,467.00	3679	Aug. 23	445.97
3677	Aug. 23	26,584.22	3680	Aug. 28	1,073.00

Total -$ 44,127.08

Withdrawals and other charges

Date	Type	Transaction Description	Amount
Aug. 01	07/2018 TWO SIGNATURE VERI		6.00
		Total -$	6.00

Ending Balance August 31, 2018	$	106,060.05

CHECK REGISTER - JOINT SEWER BOARD OPERATION FUND

	reconciled balance 3/31/18				**144,931.58**
3652	Ameren MO	X	5,666.54	-	139,265.04
3653	Equipment Replacement Fund	X	3,467.00		135,798.04
3654	Alliance Water Resources, Inc.	X	26,584.22		109,213.82
3655	Alliance Water Resources, Inc.	X	300.00		108,913.82
3656	Alliance Water Resources, Inc.	X	277.36		108,636.46
3657	Naught Naught	X	750.00		107,886.46
	Deposit LO	X	-	6,069.57	113,956.03
	Deposit OB	X		39,763.76	153,719.79
	Deposit	X		800.00	154,519.79
	Interest	X		19.23	154,539.02
	reconciled balance 4/30/18				**154,539.02**
3658	Ameren MO	X	5,059.79	-	149,479.23
3659	Equipment Replacement Fund	X	3,467.00		146,012.23
3660	Alliance Water Resources, Inc.	X	26,584.22		119,428.01
3661	Alliance Water Resources, Inc.	X	400.00		119,028.01
3662	Alliance Water Resources, Inc.	X	603.23		118,424.78
	Deposit LO	X	-	5,974.53	124,399.31
	Deposit OB	X		39,858.80	164,258.11
	Deposit	X		980.00	165,238.11
	Interest	X		20.82	165,258.93
	reconciled balance 5/31/18				**165,258.93**
3663	Ameren MO	X	10,115.89	-	155,143.04
3664	Equipment Replacement Fund	X	3,467.00		151,676.04
3665	Alliance Water Resources, Inc.	X	26,584.22		125,091.82
3666	Alliance Water Resources, Inc.	X	490.00		124,601.82
3667	Alliance Water Resources, Inc.	X	1,052.52		123,549.30
	Deposit LO	X	-	5,719.38	129,268.68
	Deposit OB	X		40,113.95	169,382.63
	Deposit	X		3,800.00	173,182.63
	Interest	X		12.92	173,195.55
	reconciled balance 6/30/18				**173,195.55**
3668	Ameren MO	X	11,386.78	-	161,808.77
3669	Equipment Replacement Fund	X	3,467.00		158,341.77
3670	Alliance Water Resources, Inc.	X	26,584.22		131,757.55
3671	Alliance Water Resources, Inc.	X	1,900.00		129,857.55
3672	Alliance Water Resources, Inc.	X	1,338.18		128,519.37
3673	Gerding, Korte & Chitwood	X	2,300.00	-	126,219.37
	Deposit LO	X	-	6,315.26	132,534.63
	Deposit OB	X		39,518.08	172,052.71
	Deposit	X		4,280.00	176,332.71
	Interest	X		13.40	176,346.11
	reconciled balance 7/31/18				**176,346.11**
3674	Dept of Revene		11.00		176,335.11
3675	Ameren MO	X	10,416.89	-	165,918.22
3676	Equipment Replacement Fund	X	3,467.00		162,451.22
3677	Alliance Water Resources, Inc.	X	26,584.22		135,867.00
3678	Alliance Water Resources, Inc.	X	2,140.00		133,727.00
3679	Alliance Water Resources, Inc.	X	445.97		133,281.03
3680	Naught Naught	X	1,073.00	-	132,208.03
	Two signature verification chg.	X	6.00		132,202.03
	Deposit LO	X	-	5,612.20	137,814.23
	Deposit OB	X		40,221.13	178,035.36
	Deposit	X		3,000.00	181,035.36
	Interest	X		13.69	181,049.05
	reconciled balance 8/31/18				**181,049.05**

FIRST BANK OF THE LAKE

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

536 00010 01
ACCOUNT: 1
DOCUMENTS: 2

PAGE: 1
08/31/2018

00119 3058677 1OZ ATM 608.113.1.3

LAKE OZARK-OSAGE BEACH JOINT SEWER TREAT
SEWER BD.-TREATMENT PLANT BD.
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 1 .... \-- INESS MONEY MARKET)

LAST STATEMENT 07/31/18	295,151.39
2 CREDITS	3,714.40
1 DEBITS	29,462.00
THIS STATEMENT 08/31/18	269,403.79

- - - - - - - - - - - DEPOSITS - - - - - - - - - - -

REF #	DATE	AMOUNT	REF #	DATE	AMOUNT	REF #	DATE	AMOUNT
	08/22	3,467.00						

- - - - - - - - - OTHER CREDITS - - - - - - - - - -

DESCRIPTION	DATE	AMOUNT
INTEREST	08/31	247.40

- - - - - - - - - - - CHECKS - - - - - - - - - - -

CHECK #	DATE	AMOUNT	CHECK #	DATE	AMOUNT	CHECK #	DATE	AMOUNT
1024	08/27	29,462.00						

- - - - - - - - - - - I N T E R E S T - - - - - - - - - -

AVERAGE LEDGER BALANCE:	291,517.84	INTEREST EARNED:	247.40
AVERAGE AVAILABLE BALANCE:	291,294.16	DAYS IN PERIOD:	31
INTEREST PAID THIS PERIOD:	247.40	ANNUAL PERCENTAGE YIELD EARNED:	1.00%
INTEREST PAID 2018:	1,568.88		

*** C O N T I N U E D ***

CHECK REGISTER - JOINT SEWER BOARD EQUIPMENT REPLACEMENT FUND

reconciled balance 3/31/18			**280,473.96**
Interest	X	179.44	280,653.40
Deposit	X	3,467.00	284,120.40
reconciled balance 4/30/18			**284,120.40**
Interest	X	181.98	284,302.38
Deposit	X	3,467.00	287,769.38
reconciled balance 5/31/18			**287,769.38**
Interest	X	191.66	287,961.04
Deposit	X	3,467.00	291,428.04
reconciled balance 6/30/18			**291,428.04**

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 2018

Submitted by Alliance Water Resources, Inc. for the

September 2018

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	1.4	1.5	N/A	< 20	0.11	< 5.0	< 1.0
Peak Day	2.2	2.4	8.2	< 20	0.30	< 5.0	< 1.0
Percent Removal	99.2	99.5	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	1.1	10	4.0
Weekly Average	45	45		630			
Daily Max					6.0	15	8.1

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.955 MGD or 65% of Permitted flow with Lake Ozark contributing 13% of the total flow and Osage Beach contributing 87%. 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 84193 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 12 tanker loads of bio-solids during the month equivalent to a total of 44,400 gallons and 19,441 pounds dry weight solids.

373,111 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 337,500 gallons with a level of 5.0 feet in Tank 1 and 2.5 feet in Tank 2.

WASTEHAULERS

The plant received 30 loads of septage during the month totaling 75,000 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 3rd of August and found that the overload relays had blown, so we ordered replacements and got them installed on the 6th of August.
- We started having trouble with the RAS flow meter on the 25th of August and have been working with Eastech Flow Control technical support trying to resolve the problem but will more than likely must send it in to them for service.
- We came in on the 30th and found that the UV systems flow reading was not reading properly so we contacted Wedeco tech support and they assisted us in figuring out the problem. The back-up battery systems batteries were bad, and one of the 4-20 terminal block interface modules were bad. We purchased the batteries local but had to order the interface module. We called in an electrician to assist us with bypassing the interface module until we could get one in. We got the batteries installed on the 4th of September and the interface module installed on the 5th of September.

SAFETY

- We conducted our monthly routine Safety Meeting on Lockout/Tagout on the 8th of August.

REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the EDMR on MDNR's website on the 6th of September.

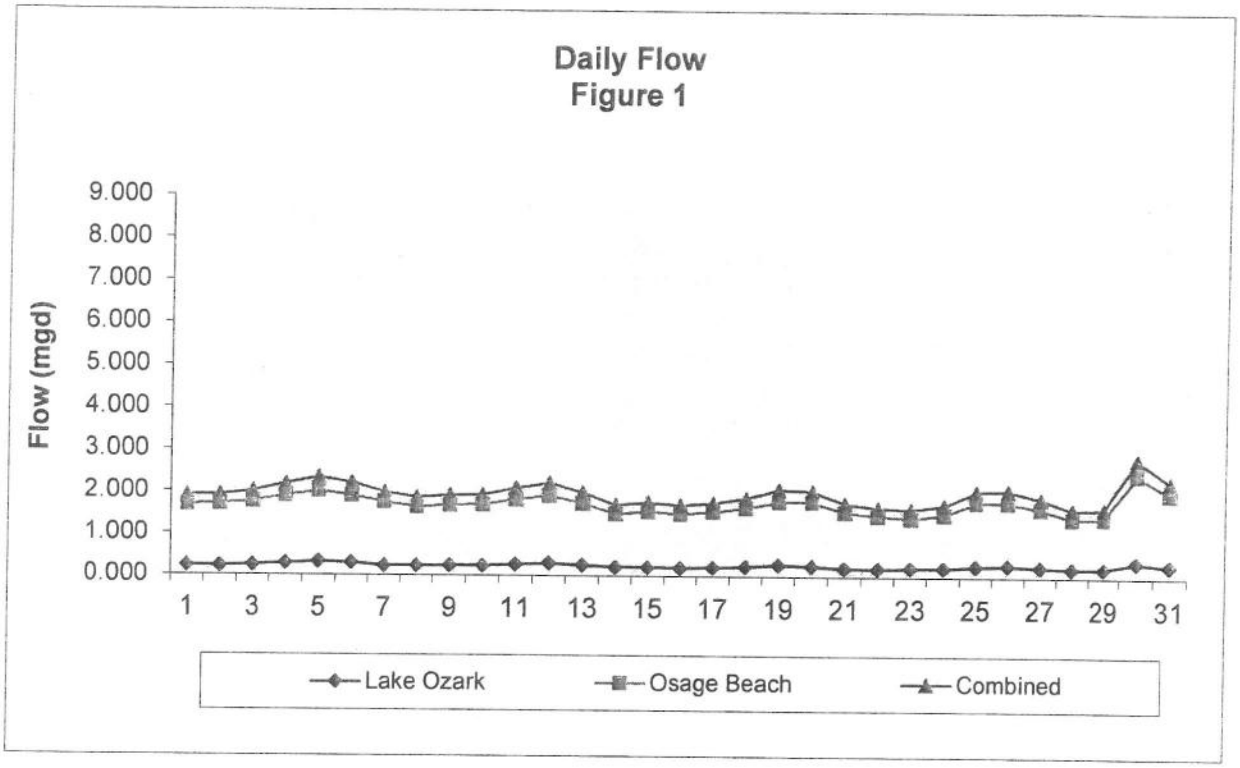
MISCELLANEOUS AND RECOMMENDATIONS

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF August 2018

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-Aug	0.3	0.229	1.685	1.914	12.0	88.0						
2-Aug	0	0.214	1.704	1.918	11.2	88.8						
3-Aug	0	0.245	1.764	2.009	12.2	87.8	238	140	300	224	132	626
4-Aug	**0**	**0.287**	**1.901**	**2.188**	**13.1**	**86.9**						
5-Aug	**0**	**0.321**	**2.020**	**2.341**	**13.7**	**86.3**						
6-Aug	0	0.302	1.903	2.205	13.7	86.3						
7-Aug	0	0.231	1.754	1.985	11.6	88.4						
8-Aug	0	0.231	1.630	1.861	12.4	87.6						
9-Aug	0	0.233	1.685	1.918	12.1	87.9						
10-Aug	0	0.236	1.694	1.930	12.2	87.8	195	120	125	200	154	182
11-Aug	**0**	**0.274**	**1.819**	**2.093**	**13.1**	**86.9**						
12-Aug	**0**	**0.305**	**1.913**	**2.218**	**13.8**	**86.2**						
13-Aug	0	0.257	1.735	1.992	12.9	87.1						
14-Aug	0.1	0.215	1.485	1.700	12.6	87.4						
15-Aug	0.6	0.215	1.546	1.761	12.2	87.8						
16-Aug	0	0.202	1.493	1.695	11.9	88.1						
17-Aug	0	0.214	1.540	1.754	12.2	87.8	153	153	135	108	178	186
18-Aug	**0**	**0.236**	**1.638**	**1.874**	**12.6**	**87.4**						
19-Aug	**0**	**0.289**	**1.792**	**2.081**	**13.9**	**86.1**						
20-Aug	1	0.256	1.794	2.050	12.5	87.5						
21-Aug	0.2	0.205	1.550	1.755	11.7	88.3						
22-Aug	0	0.196	1.458	1.654	11.9	88.1						
23-Aug	0	0.211	1.408	1.619	13.0	87.0						
24-Aug	0.2	0.217	1.502	1.719	12.6	87.4	248	175	153	180	198	214
25-Aug	**0.3**	**0.262**	**1.789**	**2.051**	**12.8**	**87.2**						
26-Aug	**0**	**0.284**	**1.792**	**2.076**	**13.7**	**86.3**						
27-Aug	0	0.241	1.639	1.880	12.8	87.2						
28-Aug	0	0.206	1.407	1.613	12.8	87.2						
29-Aug	0.2	0.213	1.422	1.635	13.0	87.0						
30-Aug	2.8	0.364	2.461	2.825	12.9	87.1						
31-Aug	1.2	0.288	1.993	2.281	12.6	87.4	105	90	120	98	114	188
SUM	6.9	7.679	52.916	60.595								
AVG		0.248	1.707	1.955	13	87	188	136	167	162	155	279

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

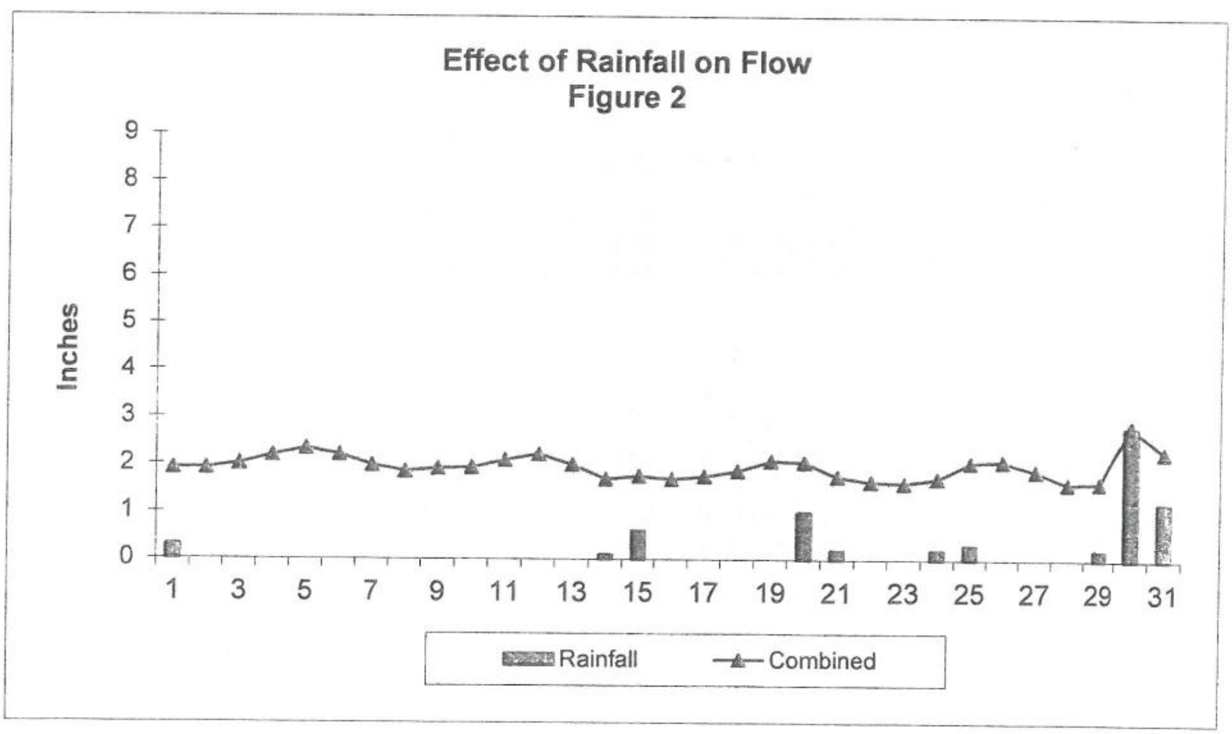
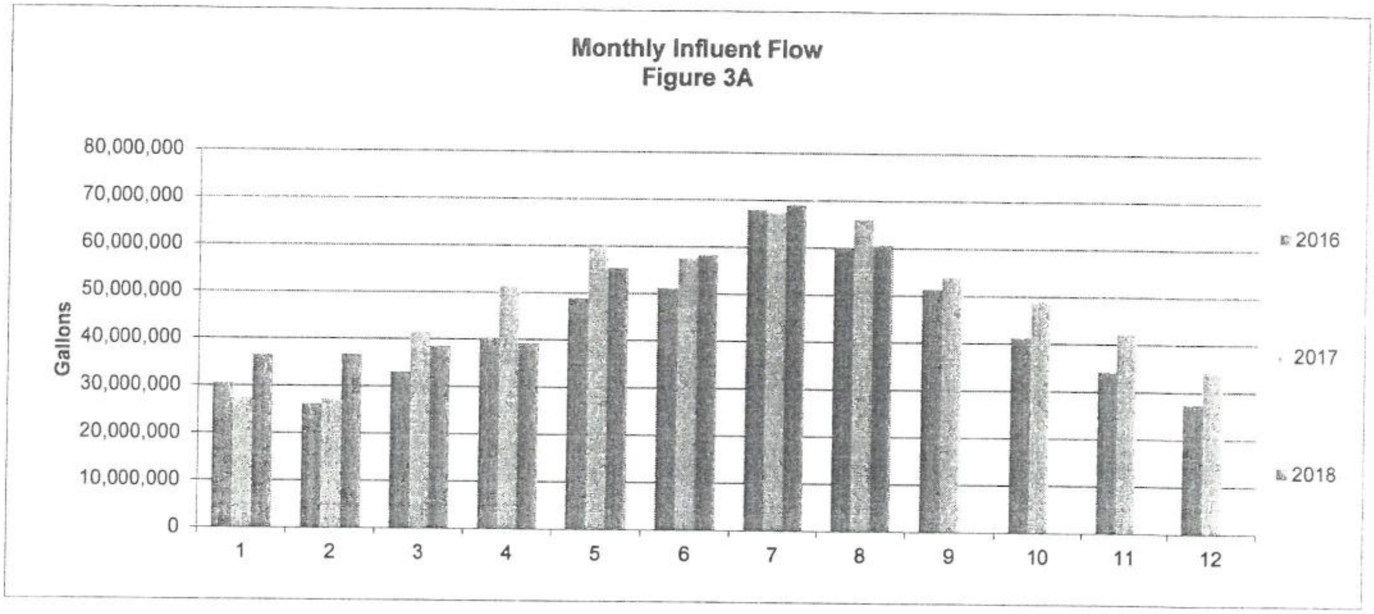

Effect of Rainfall on Flow
Figure 2
Inches
9
8
7
6
5
4
3
2
1
0
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31
Rainfall
Combined

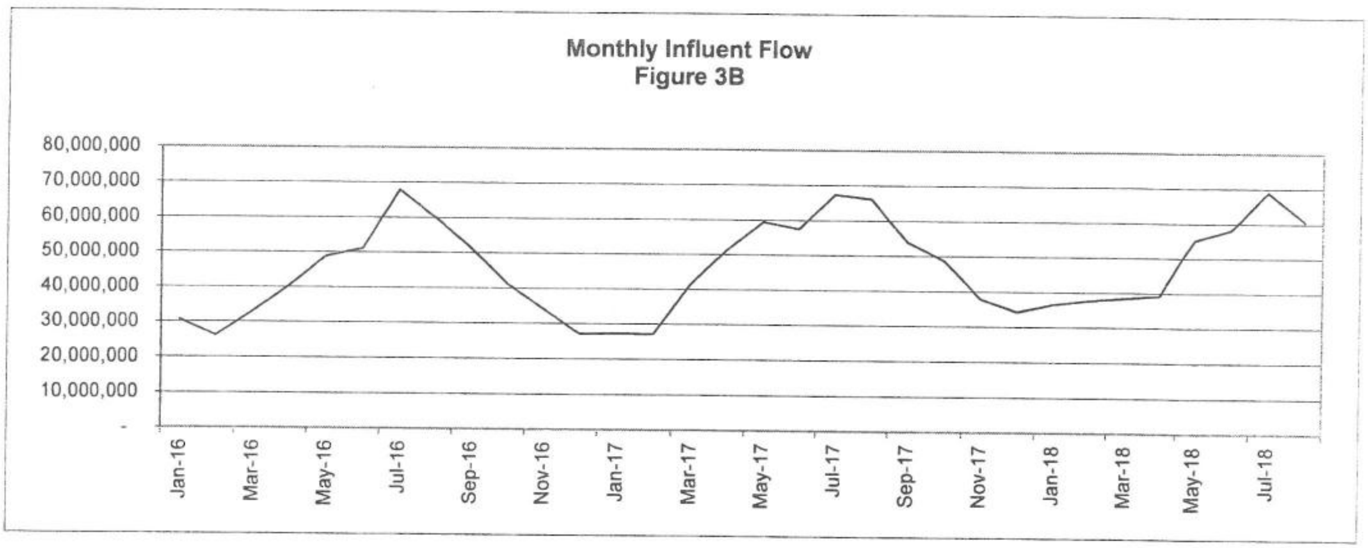
TABLE B
JOINT SEWER BOARD
Monthly Flows

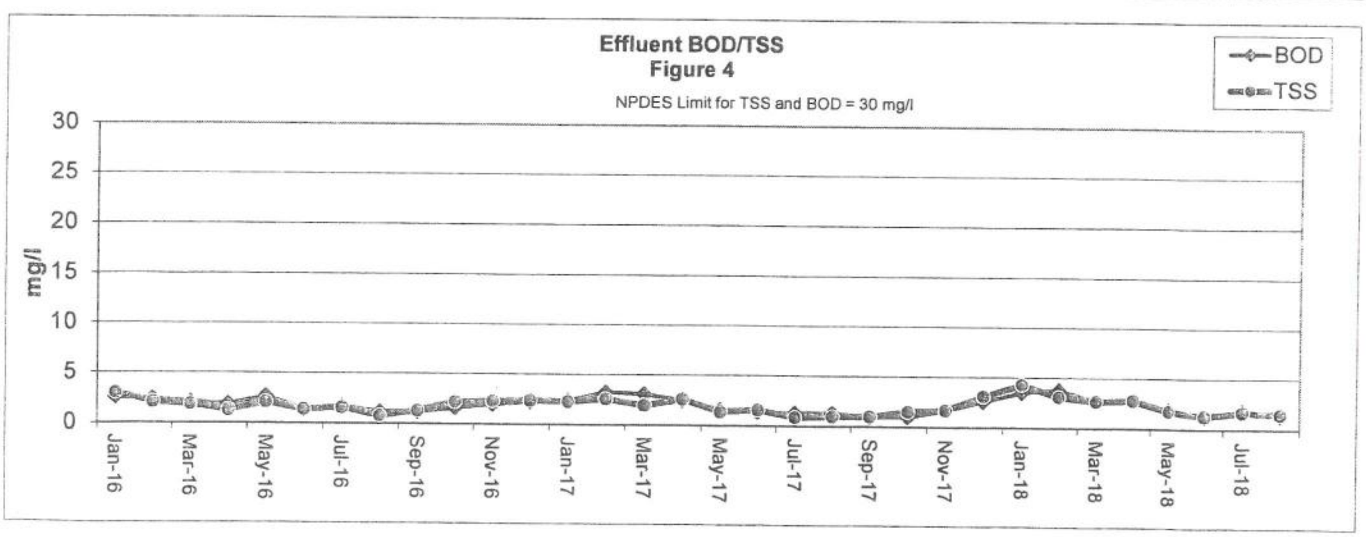
2016	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
January	0.8	26,604,000	87%	4,001,000	13%	30,605,000	100%
February	0.8	22,444,000	86%	3,661,000	14%	26,105,000	100%
March	3.1	28,785,000	87%	4,251,000	13%	33,036,000	100%
April	5.3	35,053,000	87%	5,231,000	13%	40,284,000	100%
May	7.0	42,126,000	86%	6,704,000	14%	48,830,000	100%
June	1.2	44,599,000	87%	6,545,000	13%	51,144,000	100%
July	8.7	59,190,000	87%	8,793,000	13%	67,983,000	100%
August	7.7	51,798,000	86%	8,171,000	14%	59,969,000	100%
September	6.0	44,634,000	87%	6,655,000	13%	51,289,000	100%
October	0.5	36,156,000	88%	5,029,000	12%	41,185,000	100%
November	1.2	29,750,000	87%	4,357,000	13%	34,107,000	100%
December	0.8	23,139,000	86%	3,914,000	14%	27,053,000	100%
	45.4	467,718,000	87%	71,221,000	13%	538,939,000	100%

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%

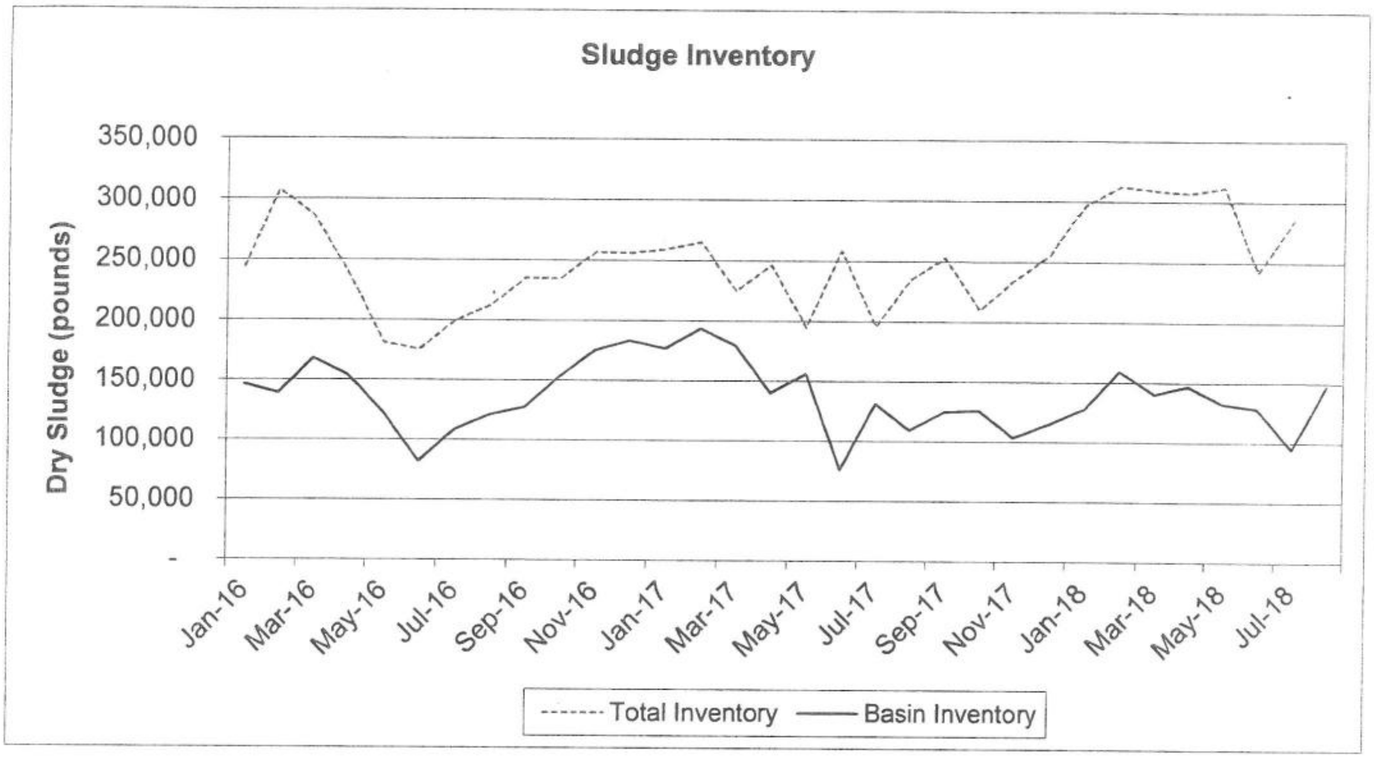
2018	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
January	2.8	32,190,000	88%	4,345,000	12%	36,535,000	100%
February	5.4	31,846,000	87%	4,861,000	13%	36,707,000	100%
March	3.2	33,424,000	87%	5,010,000	13%	38,434,000	100%
April	1.9	34,339,000	88%	4,896,000	12%	39,235,000	100%
May	5.4	47,620,000	86%	7,610,000	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							
October							
November							
December							
	31.5	343,882,000	87%	50,076,000	13%	393,958,000	100%


Monthly Influent Flow
Figure 3A
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
Gallons
1
2
3
4
5
6
7
8
9
10
11
12
2016
2017
2018

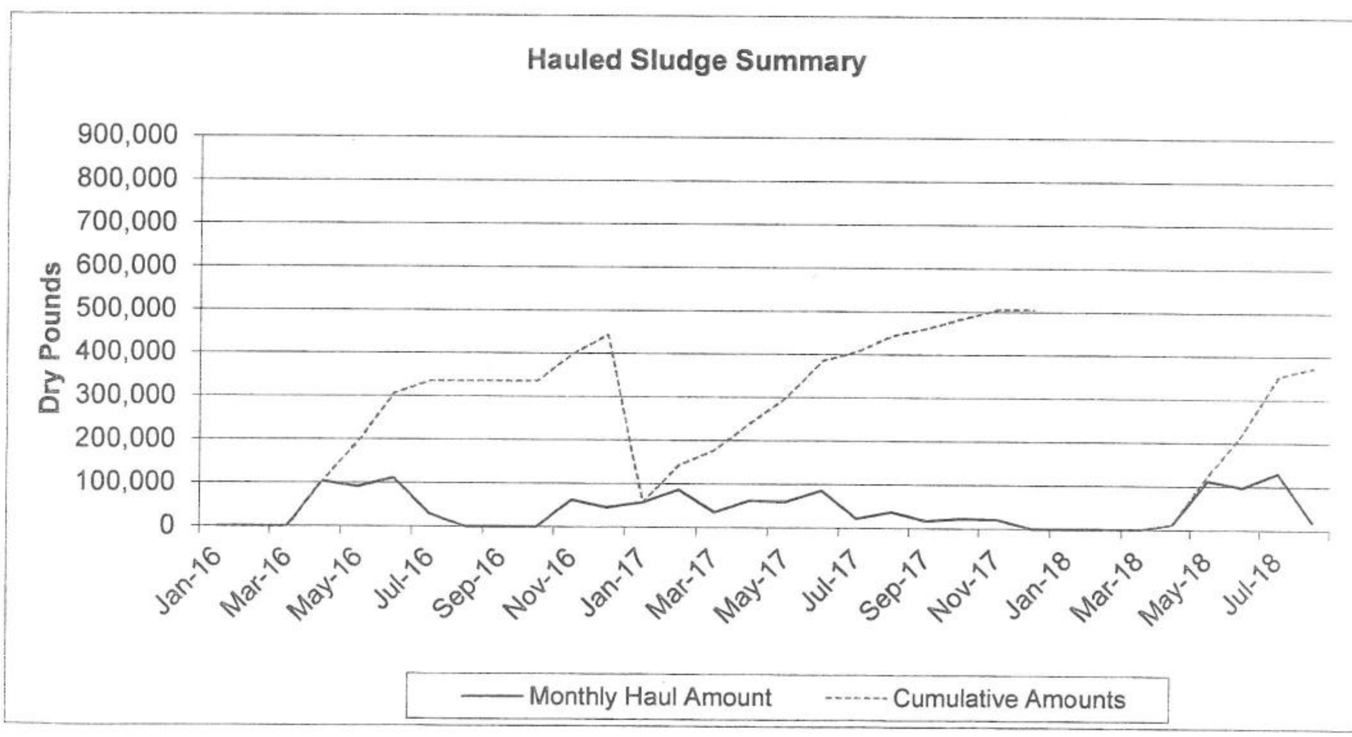

Monthly Influent Flow
Figure 3B
80,000,000
70,000,000
60,000,000
50,000,000
40,000,000
30,000,000
20,000,000
10,000,000
-
Jan-16
Mar-16
May-16
Jul-16
Sep-16
Nov-16
Jan-17
Mar-17
May-17
Jul-17
Sep-17
Nov-17
Jan-18
Mar-18
May-18
Jul-18


Effluent BOD/TSS
Figure 4
NPDES Limit for TSS and BOD = 30 mg/l
BOD
TSS
30
25
20
15
10
5
0
mg/l
Jan-16
Mar-16
May-16
Jul-16
Sep-16
Nov-16
Jan-17
Mar-17
May-17
Jul-17
Sep-17
Nov-17
Jan-18
Mar-18
May-18
Jul-18

	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-16	0	-	0	3.9%	-	5.0	5.0	0.0	450,000	146,367	0.5	0.5	0.0	3,760	3,610	3,617,762	111,184	0.00369	257,551	22	55,000
Feb-16	0	-	0	3.9%	-	6.0	3.5	0.0	427,500	139,049	1.0	1.0	0.0	3,210	3,730	3,635,524	105,211	0.00347	244,260	6	15,000
Mar-16	0	-	0	3.9%	-	6.0	5.5	0.0	517,500	168,322	2.0	2.0	1.0	4,670	4,320	3,714,476	139,249	0.0045	307,571	44	110,000
Apr-16	86	318,200	103,652	3.9%	103,652	5.5	5.0	0.0	472,500	153,914	2.5	2.5	1.0	5,540	3,180	3,732,238	132,600	0.00426	286,515	6	15,000
May-16	77	284,900	91,185	3.8%	194,837	5.5	3.0	0.0	382,500	122,423	1.0	5.0	1.0	3,770	3,670	3,750,000	116,343	0.00372	238,766	40	100,000
Jun-16	99	366,300	111,706	3.7%	306,543	6.0	0.0	0.0	270,000	82,339	1.5	1.0	1.5	2,570	3,840	3,709,547	99,155	0.00321	181,494	30	75,000
Jul-16	28	103,600	29,408	3.4%	335,951	4.5	4.0	0.0	382,500	108,577	1.0	1.0	1.0	1,740	2,630	3,678,952	67,041	0.00219	175,618	46	111,000
Aug-16	0	-	0	3.4%	335,951	6.0	3.5	0.0	427,500	121,222	1.0	1.0	1.0	2,880	2,220	3,678,952	78,240	0.00255	199,462	43	96,000
Sep-16	0	-	0	3.4%	335,951	5.0	5.0	0.0	450,000	127,602	1.0	1.0	1.0	2,800	2,690	3,678,952	84,223	0.00275	211,825	42	94,500
Oct-16	0	-	0	3.4%	335,951	6.5	5.5	0.0	540,000	153,122	1.0	1.0	1.0	1,740	3,600	3,678,952	81,922	0.00267	235,045	35	75,500
Nov-16	52	192,400	62,457	3.9%	398,408	6.5	5.5	0.0	540,000	175,295	1.0	0.0	1.5	-	3,770	1,882,904	59,202	0.00377	234,497	11	20,000
Dec-16	36	133,200	45,237	4.1%	443,645	7.5	4.5	0.0	540,000	183,393	1.0	0.0	1.0	-	4,700	1,861,190	72,955	0.0047	256,348	26	54,500
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



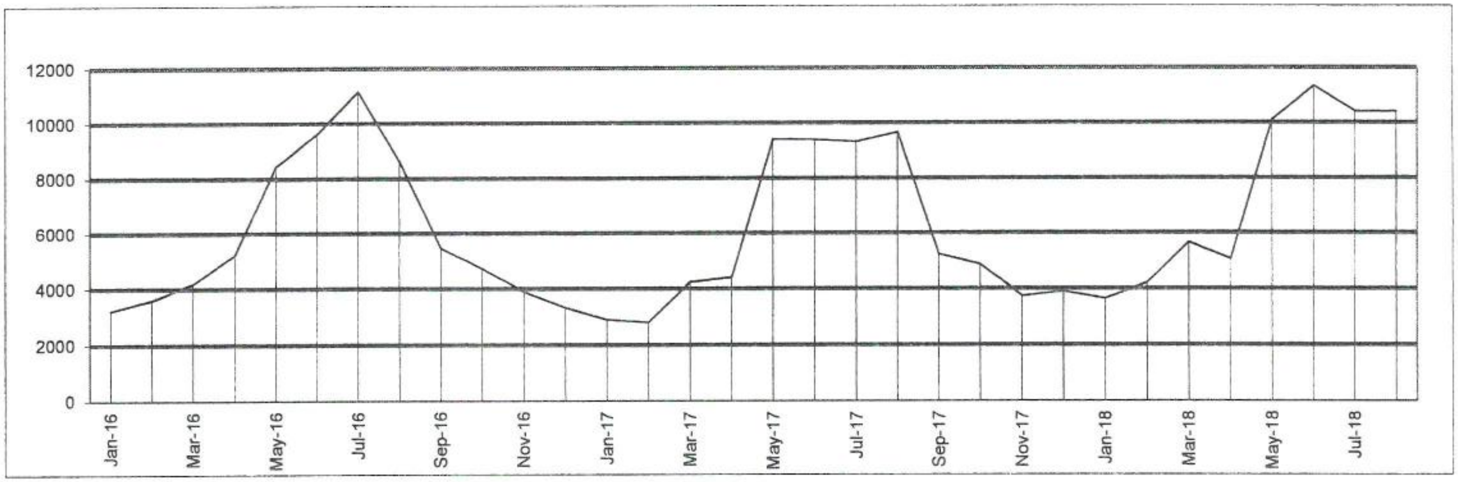
Sludge Inventory
350,000
300,000
250,000
200,000
150,000
100,000
50,000
-
Dry Sludge (pounds)
Jan-16
Mar-16
May-16
Jul-16
Sep-16
Nov-16
Jan-17
Mar-17
May-17
Jul-17
Sep-17
Nov-17
Jan-18
Mar-18
May-18
Jul-18
Total Inventory
Basin Inventory



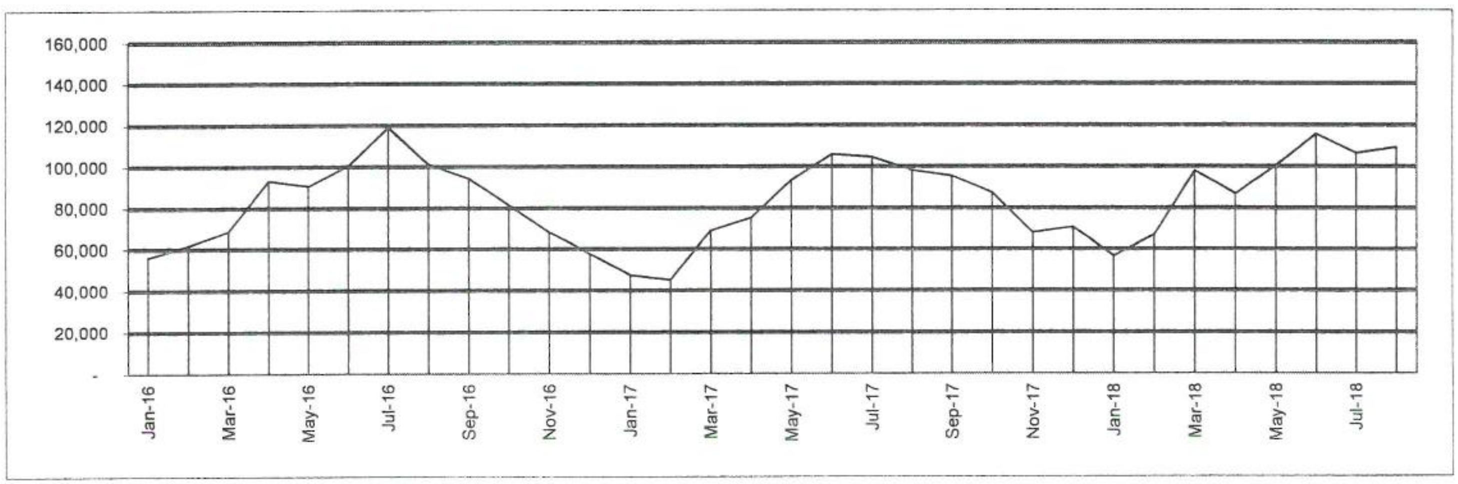
Hauled Sludge Summary
900,000
800,000
700,000
600,000
500,000
400,000
300,000
200,000
100,000
0
Dry Pounds
Jan-16
Mar-16
May-16
Jul-16
Sep-16
Nov-16
Jan-17
Mar-17
May-17
Jul-17
Sep-17
Nov-17
Jan-18
Mar-18
May-18
Jul-18
Monthly Haul Amount
Cumulative Amounts

	Electric Cost	Kilowatts Used
Jan-16	3223	56,290
Feb-16	3613	61,740
Mar-16	4195	69,020
Apr-16	5235	93,310
May-16	8446	90,640
Jun-16	9618	100,670
Jul-16	11166	119,020
Aug-16	8627	101,260
Sep-16	5460	94,280
Oct-16	4737	81,500
Nov-16	3903	68,360
Dec-16	3324	57,810
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

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-18	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	7.4			23.6	1.924	8.0				5.1		23.8		
2	7.4			23.4	1.918	8.0			0.09	4.8		24.0		
3	7.4	300	626	24.1	1.970	8.0	1.3	1.0		5.0		24.6	99.6	99.8
4	7.4			24.7	2.141	8.1				5.3		24.6		
5	7.3			23.9	2.323	8.1				4.8		24.8		
6	7.5			24.7	2.184	8.1				4.1	< 20	25.4		
7	7.4			23.8	1.965	8.0				4.7		25.0		
8	7.5			24.4	1.762	8.2				3.5		25.2		
9	7.4			24.4	1.887	8.1			0.04	4.8		25.5		
10	7.5	125	182	23.6	1.901	8.1	1.1	1.4		5.0		24.8	99.1	99.2
11	7.5			24.3	1.973	8.0				4.8		25.0		
12	7.3			23.8	2.196	8.0				4.8		25.0		
13	7.4			24.7	1.962	8.1				5.0	< 20	25.0		
14	7.3			25.1	1.705	8.1				5.2		25.1		
15	7.3			24.5	1.741	8.0				4.7		25.2		
16	7.4			24.3	1.757	8.0			0.04	4.5		25.4		
17	7.3	135	186	24.3	1.726	8.0	1.0	1.2		4.3		25.2	99.3	99.4
18	7.5			23.6	1.796	8.1				4.8		24.9		
19	7.4			24.8	2.330	8.0				4.1		25.3		
20	7.3			24.4	2.165	8.0				5.2	< 20	24.7		
21	7.4			23.6	1.844	8.0				4.9		24.5		
22	7.5			24.0	1.525	8.0				5.2		24.2		
23	7.5			24.0	1.625	8.1			0.06	5.8		23.5		
24	7.5	153	214	23.6	1.801	8.1	1.5	1.6		5.8		22.5	99.0	99.3
25	7.5			24.4	2.045	8.1				5.4		24.1		
26	7.4			24.3	2.086	8.1				6.4		24.4		
27	7.4			24.3	1.851	8.0				5.6	< 20	25.4		
28	7.3			26.2	1.604	8.1				5.3		26.4		
29	7.4			23.3	1.515	8.0				4.9		24.6		
30	7.4			24.5	3.026	8.0				5.2		25.3		
31	7.5	120	188	23.7	2.403	8.0	2.2	2.4	0.3	4.9		24.4	98.2	98.7
Total					60.651									
Avg		167	279	24	1.956		1.4	1.5	0.11	5.0	< 20	24.8	99.0	99.3
Min	7.3	120	182	23	1.515	8.0	1.0	1.0	0.04	3.5	< 20	22.5	98.2	98.7
Max	7.5	300	626	26	3.026	8.2	2.2	2.4	0.30	6.4	< 20	26.4	99.6	99.8

MONTHLY MONITORING					QUARTERLY MONITORING					
DATE	Oil & Grease mg/L	Selenium µg/L	SM1 Hardness mg/L	SM2 Hardness mg/L	Phosphorus mg/L	SM1 Phosphorus mg/L	T. Nitrogen mg/L	SM1 T. Nitrogen mg/L	TR. Cadmium ug/L	TR. Copper µg/L
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13	< 5.0	< 1.0	329	333						
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
Total	< 5.0	< 1.0	329	333						
Avg	< 5.0	< 1.0	329	333						
Min	< 5.0	< 1.0	329	333						
Max	< 5.0	< 1.0	329	333						

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		1.0	4,960	800	23.7	1.1	4,740	790	23.7	65	0.3	7:30
2		0.9	4,250	750	23.6	1.0	4,900	800	23.6	65	0	7:30
3		1.0	5,090	810	24.0	1.0	4,950	810	24.1	67	0	7:30
4		0.9	4,810	800	24.9	1.0	4,290	710	24.5	68	0	7:30
5		1.0	5,010	810	24.7	1.0	4,690	770	24.6	72	0	7:30
6		0.8	4,090	740	25.5	0.9	5,280	860	25.4	73	0	7:30
7		1.0	4,550	770	24.9	0.9	4,760	880	24.9	74	0	7:30
8		1.0	5,150	810	24.9	0.9	4,480	700	24.7	71	0	7:30
9		0.9	5,450	860	25.4	1.0	3,590	650	24.9	69	0	7:30
10		1.2	5,160	840	24.5	1.3	4,210	700	24.4	69	0	7:30
11		1.0	4,860	800	24.8	0.8	4,010	700	24.8	70	0	7:30
12		1.7	4,470	740	24.6	1.5	4,160	730	24.6	68	0	7:30
13		1.3	4,640	760	25.0	1.2	4,670	770	25.0	68	0	7:30
14		1.1	5,130	810	24.7	1.0	4,390	730	24.6	73	0.1	7:30
15		1.0	4,760	800	24.8	1.1	4,230	710	24.8	71	0.6	7:30
16		1.1	4,470	770	25.4	1.0	4,230	730	25.2	71	0	7:30
17		1.1	4,470	720	25.0	0.9	4,650	770	24.9	71	0	7:30
18		1.5	4,570	790	24.4	1.9	3,910	660	24.4	67	0	7:30
19		1.5	4,010	660	25.1	1.0	4,450	770	25	66	0	7:30
20		1.6	3,600	750	24.2	1.3	4,290	710	24.4	70	1.0	7:30
21		1.7	4,140	760	24.0	1.4	4,390	770	24.1	70	0.2	7:30
22		1.1	4,470	780	23.8	1.0	3,690	650	23.9	65	0	7:30
23		1.2	4,080	700	23.6	1.3	4,130	700	23.6	65	0	7:30
24		1.8	4,660	780	22.0	2.0	4,000	700	22.3	67	0.2	7:30
25		1.2	4,310	800	24.0	1.2	3,150	570	24.1	73	0.3	7:30
26		1.7	3,950	770	24.5	2.0	3,560	550	24.5	72	0	7:30
27		0.9	4,330	770	25.4	1.1	3,750	620	25.2	78	0	7:30
28	14,040	1.9	4,050	680	26.3	1.3	4,310	740	25.8	80	0	7:30
29		1.1	3,800	690	24.0	1.0	3,830	700	24.3	74	0.2	7:30
30	5,400	1.3	4,270	750	25.0	1.2	4,350	740	25.0	71	2.8	7:30
31		2.5	4,680	780	23.8	2.7	4,170	640	23.8	67	1.2	7:30

COMMENTS:

TESTS PERFORMED BY (PRINT)	SIGNATURE	PHONE #	DATE
John Hornback	John Hornback	(573)365-0455	9/7/2018
REPORT APPROVED BY (PRINT)	**SIGNATURE**	**PHONE #**	**DATE**
Gary Hutchcraft	Gary Hutchcraft	(573)365-0455	9/7/2018

*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	2018	08	01	TO	2018	08	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	*****	*****		*****	2.2	1.4	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	*****	*****		*****	*****	98.2	%	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	3.026	1.956	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	*****	*****		0.30	*****	0.11	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	*****	*****		<5.0	*****	<5.0	mg/L	Monthly	Grab	
Stage Type: End of Pipe	REQRMNT	*****	*****		Daily Maximum : 15	*****	Monthly Average : 10		Monthly	Grab	
pH (00400)	REPORTD	*****	*****		8.0	*****	8.2	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:

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	2018-09-06 15:28:45	
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	2018	08	01	TO	2018	08	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	*****	*****		*****	*****	98.7	%	Monthly	Calculated	
Stage Type: End of Pipe	REQRMNT	*****	*****		*****	*****	Monthly Average Minimum : 85		Monthly	Calculated	
Total Suspended Solids (TSS) (00530)	REPORTD	*****	*****		*****	2.4	1.5	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:

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	2018-09-06 15:28:45	
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	2018	08	01	TO	2018	08	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	*****	*****		333	*****	333	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	2018-09-06 15:28:45	
TYPED OR PRINTED NAME	SIGNATURE	Date	

LAKE OZARK/OSAGE BEACH WWTP
Operation Report

FOR AUGUST 2018
month 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 (degrees F)
1	JH/DH	0.229	1.685	1.914								7.43	23.6	C	0.3	65
2	JH/DH	0.214	1.704	1.918							34.3	7.35	23.4	C	0	65
3	JH	0.245	1.764	2.009	238	140	300	224	132	626		7.43	24.1	C	0	67
4	GH/DH	0.287	1.901	2.188								7.44	24.7	C	0	68
5	GH/DH	0.321	2.020	2.341								7.34	23.9	OC	0	72
6	GH/DH	0.302	1.903	2.205								7.45	24.7	C	0	73
7	JH/DH	0.231	1.754	1.985								7.41	23.8	OC	0	74
8	JH/DH	0.231	1.630	1.861								7.54	24.4	PC	0	71
9	JH/DH	0.233	1.685	1.918							37.2	7.43	24.9	PC	0	69
10	JH/DH	0.236	1.694	1.930	195	120	125	200	154	182		7.50	23.6	C	0	69
11	JH	0.274	1.819	2.093								7.52	24.3	PC	0	70
12	JH	0.305	1.913	2.218								7.32	23.8	PC	0	68
13	JH	0.257	1.735	1.992								7.42	24.7	C	0	68
14	JH/DH	0.215	1.485	1.700								7.33	24.3	R	0.1	73
15	JH/DH	0.215	1.546	1.761								7.29	24.5	R	0.6	71
16	JH/DH	0.202	1.493	1.695							27.2	7.42	24.3	PC	0	71
17	JH/DH	0.214	1.540	1.754	153	153	135	108	178	186		7.34	24.3	PC	0	71
18	GH/DH	0.236	1.638	1.874								7.46	23.4	PC	0	67
19	GH/DH	0.289	1.792	2.081								7.39	24.8	PC	0	66
20	GH/DH	0.256	1.794	2.050								7.28	24.4	PC	1	70
21	JH/DH	0.205	1.550	1.755								7.41	23.6	R	0.2	70
22	JH/DH	0.196	1.458	1.654								7.47	24.0	PC	0	65
23	GH	0.211	1.408	1.619							29.6	7.52	24.0	PC	0	65
24	JH/DH	0.217	1.502	1.719	248	175	153	180	198	214		7.54	23.6	R	0.2	67
25	JH	0.262	1.789	2.051								7.48	24.4	PC	0.3	73
26	JH	0.284	1.792	2.076								7.43	24.3	PC	0	72
27	JH	0.241	1.639	1.880								7.37	24.3	C	0	78
28	GH	0.206	1.407	1.613								7.32	26.2	C	0	80
29	JH/DH	0.213	1.422	1.635								7.42	23.3	R	0.2	74
30	JH	0.364	2.461	2.825								7.35	24.5	PC	2.8	71
31	JH	0.288	1.993	2.281	105	90	120	98	114	188	19.14	7.49	23.7	PC	1.2	67
TOTAL		7.679	52.916	60.595	939	678	833	810	776	1396	147.4	229.9	749.8		6.9	2170
MAX		0.364	2.461	2.825	248	175	300	224	198	626	37.2	7.54	26.2		2.8	80
MIN		0.196	1.407	1.603	105	90	120	98	114	182	19.14	7.28	23.3		0	65
AVG		0.248	1.707	1.955	188	136	167	162	155	279	29.5	7.42	24.2		0.22	70

DATE	OXIDATION DITCH NO. 1 MIXED LIQUOR: SUSPENDED SOLIDS (mg/l)	SETTLEOMETER (ml/l)	SVI (ml/gm)	pH	DO (mg/l)	OXIDATION DITCH NO. 2 MIXED LIQUOR: SUSPENDED SOLIDS (mg/l)	SETTLEOMETER (ml/l)	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	4,960	800	161	7.76	1.0	4,740	790	167	7.78	1.1	1.0	1.0	1.5
2	4,250	750	176	7.73	0.9	4,900	800	163	7.75	1.0	2.0	3.5	1.5
3	5,090	840	165	7.69	1.0	4,950	810	164	7.71	1.0	1.0	1.0	0.5
4	4,810	800	166	7.85	0.9	4,290	710	166	7.89	1.0	1.5	1.0	1.0
5	5,010	810	162	7.78	1.0	4,690	770	164	7.79	1.0	2.5	1.5	1.0
6	4,090	740	181	7.78	0.8	5,280	860	163	7.84	0.9	3.0	1.0	0.5
7	4,550	770	169	7.77	1.0	4,760	880	185	7.77	0.9	0.5	1.0	0.5
8	5,150	810	157	7.61	1.0	4,480	700	156	7.95	0.9	1.0	0.5	2.0
9	5,450	860	158	7.81	0.9	3,590	650	181	7.74	1.0	1.0	1.0	1.0
10	5,160	840	163	7.80	1.2	4,210	700	166	7.82	1.3	0.5	1.0	1.0
11	4,860	800	165	7.80	1.0	4,010	700	175	7.78	0.8	1.0	1.0	0.5
12	4,470	740	166	7.77	1.7	4,160	730	175	7.73	1.5	1.0	1.0	0.5
13	4,640	760	164	7.85	1.3	4,670	770	165	7.87	1.2	1.0	0.5	1.0
14	5,130	810	158	7.83	1.0	4,390	730	166	7.83	1.0	1.0	1.0	1.0
15	4,760	800	168	7.71	1.0	4,230	710	168	7.73	1.1	1.0	1.0	1.0
16	4,470	770	172	7.79	1.1	4,230	730	173	7.73	1.0	3.0	1.0	1.0
17	4,470	720	161	7.69	1.1	4,650	770	166	7.65	0.9	1.0	1.0	0.5
18	4,570	790	173	7.74	1.5	3,910	660	169	7.79	1.9	1.0	1.5	0.5
19	4,010	660	165	7.72	1.5	4,450	770	173	7.72	1.0	2.0	1.5	1.0
20	3,600	750	208	7.81	1.6	4,290	710	166	7.81	1.3	1.0	0.5	1.5
21	4,140	760	184	7.72	1.7	4,390	770	175	7.78	1.4	5.5	1.5	1.0
22	4,470	780	174	7.71	1.1	3,690	650	176	7.70	1.0	1.0	0.5	0.5
23	4,080	700	172	7.66	1.2	4,130	700	169	7.68	1.3	1.0	3.0	0.5
24	4,660	780	167	7.81	1.8	4,000	700	175	7.80	1.8	2.0	1.0	1.0
25	4,310	800	186	7.81	1.2	3,150	570	182	7.85	1.2	1.0	1.0	1.0
26	3,950	770	195	7.81	1.7	3,560	550	155	7.71	2.0	1.0	1.0	1.0
27	4,330	770	178	7.70	0.9	3,750	620	165	7.71	1.1	3.0	1.0	1.0
28	4,050	680	168	7.71	1.9	4,310	740	172	7.72	1.3	1.0	1.0	0.5
29	3,800	690	182	7.72	1.1	3,830	700	183	7.69	1.0	1.0	1.0	1.5
30	4,270	750	176	7.77	1.3	4,350	740	170	7.71	1.2	1.0	1.0	1.0
31	4,680	780	167	7.77	2.5	4,170	640	153	7.78	2.7	2.5	1	1
TOTAL	140,240	23,880	5,307	240	38.9	132,210	22,330	5,246	241	37.8	47	35.5	29
MAX	5,450	860	208	7.85	2.5	5,280	880	185	7.95	2.7	5.5	3.5	2.0
MIN	3,600	660	157	7.61	0.8	3,150	550	153	7.65	0.8	0.5	0.5	0.5
AVG	4,524	770	171	7.76	1.3	4,265	720	169	7.77	1.2	1.5	1.1	0.9

DATE	PLANT EFFLUENT, SM1 UPSTREAM & SM2 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)	SM1 HARDNESS (Monthly)	SM2 HARDNESS (Monthly)	T.P. PHOSPHORUS (Quarterly)	SM1 T.P. PHOSPHORUS (Quarterly)	TOTAL NITROGEN (Quarterly)	SM1 TOTAL NITROGEN (Quarterly)	T.R. CADMIUM (Quarterly)	T.R. COPPER (Quarterly)	RETURN SLUDGE: FLOW (gallons)	SUSPENDED SOLIDS (mg/l)	WASTE SLUDGE TO STORAGE: FLOW (gallons)	WASTED DRY LBS
1	1.924	8.02			5.1		23.8												0.920	10,675		
2	1.874	7.99			4.8	0.09	24.0												1.185	9,325		
3	1.970	7.98	1.3	1.0	5.0		24.6												1.296	8,675	45,000	3,256
4	2.141	8.10			5.3		24.6												0.964	6,600		
5	2.323	8.10			4.8		24.8												1.270	9,870		
6	2.184	8.14			4.1		25.4	< 20											0.912	8,615		
7	1.965	8.00			4.7		25.0												1.223	11,760	90,000	8,828
8	1.762	8.20			3.5		25.2												0.581	16,035		
9	1.887	8.11			4.8	0.04	25.5												0.981	9,565		
10	1.901	8.06	1.1	1.4	5.0		24.8												1.027	9,780	90,000	7,341
11	1.973	8.00			4.8		25.0												0.860	7,950		
12	2.196	7.98			4.8		25.0												1.150	9,410		
13	1.962	8.10			5.0		25.0	< 20	< 5.0	< 1.0	329	333							1.013	9,920		
14	1.705	8.05			5.2		25.1												1.127	7,275	45,000	2,730
15	1.761	7.95			4.7		25.2												1.106	8,525		
16	1.757	8.03			4.5	0.04	25.4												0.769	9,490		
17	1.726	7.97	1.0	1.2	4.3		25.2												1.179	7,450	90,000	5,592
18	1.796	8.05			4.8		24.9												0.762	11,210		
19	2.330	7.95			4.1		25.3												1.168	7,820		
20	2.165	8.03			5.2		24.7	< 20											1.378	7,185		
21	1.844	7.96			4.9		24.5												1.294	6,835	90,000	5,130
22	1.525	8.01			5.2		24.2												0.797	9,770		
23	1.625	8.06			5.8	0.06	23.5												0.889	10,005		
24	1.801	8.11	1.5	1.6	5.8		22.5												1.246	8,860	45,000	3,325
25	2.045	8.05			5.4		24.1												0.632	8,355		
26	2.086	8.11			6.4		24.4												0.081	7,605		
27	1.851	8.00			5.6		25.4	< 20											0.096	9,995		
28	1.604	8.10			5.3		26.4												0.326	8,810	45,000	3,306
29	1.515	7.96			4.9		24.6												0.687	5,400		
30	3.026	7.98			5.2		25.3												0.835	6,460		
31	2.403	8.00	2.2	2.4	4.9	0.3	24.4												0.486	8,380	45,000	3,145
TOTAL	60.627	249	7.1	7.6	154	0.53	768	< 20	< 5.0	< 1.0	329	333	0	0	0	0	0	0	28.24	277,610	585,000	42,653
MAX	3.026	8.2	2.2	2.4	6.4	0.3	26.4	< 20	< 5.0	< 1.0	329	333	0	0	0	0	0	0	1.378	16,035	90,000	8,828
MIN	1.515	7.95	1	1	3.5	0.04	22.5	< 20	< 5.0	< 1.0	329	333	0	0	0	0	0	0	0.081	5,400	45,000	2,730
AVG	1.956	8.04	1.4	1.5	5.0	0.11	24.8	< 20	< 5.0	< 1.0	329	333	0.0	0.0	0.0	0.0	0.0	0.0	0.911	8,955	65,000	4,739

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

Prepared by GH, JH, DH

Approved by GH

Date 9/7/2018

CAPITAL IMPROVEMENT ITEM DESCRIPTIONS
For Consideration
BUDGET YEAR 2019

TIER 1

				Notes
1. Annual fee for Mission autodialer (software fee)		(estimated)	$500	Annual Fee
2. Regular Plant & Vehicle Maintenance	$8,000 & $3,000	(estimated)	$11,000	Annual Maint.
3. UV Bulbs, Quartz Sleeves and Spare Parts		(estimated)	$8,000	Annual Maint.
4. Sandblast and paint Clarifier #3		(estimated)	$95,000	Carryover if not completed in 2018
5. Replacement BOD & Ammonia probes		(estimated)	$2,000	New
6. Expanded Effluent Testing for Permit Renewel for next renewel		(estimated)	$1,500	New/last one for this permit
7. Replacement volute & cart for the pista grit system		(estimated)	$8,000	New
8. Replacement LED parking lot/area lighting		(estimated)	$10,000	New - Carryover
9. Replacement impellers for RAS pumps, a couple per year		(estimated)	$7,500	New - Carryover
10. Rebuild Ducking Skimmer Arm & Arm Supports on Clarifier #2		(estimated)	$5,000	New - Carryover
11. Replace wooden doors w/ fiberglass doors, a couple per year		(estimated)	$2,000	New - Carryover
12. Rock for the Road		(estimated)	$2,000	Annual Maint.
13. Knapheide Mini Pro Tailgate Spreader for Ford pickup		(estimated)	$2,000	New
	Estimated Tier 1 Total		$154,500	

TIER 2

1. Take #2 Aeration Basin down, removal of grit by Contractor and repair valves and required lab testing on grit.		(estimated)	$100,000	New
2. Replace electrical panel and components in RAS Basement		(estimated)	$40,000	New
3. Replace electrical panel & components and repair pump in potable well house.		(estimated)	$10,000	New
	Estimated Tier 2 Total		$150,000	

Informational TIER 3

1. Option 1 - New replacement highway style sludge truck w/ 3500 gallon tank		(estimated)	$165,000	New - Carryover
Option 2 - New 6 wheel drive sludge truck w/ flotation type tires w/ 3000 gallon tank		(estimated)	$180,000	New - Carryover
	Estimated Tier 3 Total	$165,000 to $180,000		