

**OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING AGENDA
October 17, 2017 @ 4:00 p.m.
LAKE OZARK CITY HALL**

1. CALL TO ORDER

2. ROLL CALL

Mayor, Lake Ozark, Johnnie Franzeskis
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, Richard Ross
Public Works Director, Osage Beach, Nick Edelman
Public Works Director, Lake Ozark, Matt Michalik
Resident Member, Mr. Gary Hamner

3. MINUTES

Regular Meeting; September 19, 2017

PAGE NUMBERS

3-4

PUBLIC COMMENT

This time is set aside on the Agenda for citizens and visitors to address the Joint Sewer Commission on any topic that is not a Public Hearing. The Joint Sewer Commission welcomes input and feedback from the public. Speakers will be restricted to three minutes for non-agenda items; five minutes for agenda items unless otherwise permitted. Minutes may not be donated or transferred from one speaker to another.

4. REPORTS

Bill List	5-16
Revenue Budget Analysis	17
Expenditure Budget Analysis	19
Income & Expense Summary	21
Check Registers & Bank Statements	23-26
 Alliance Report of Operations	 27-44
Approval of Flow Chart	

5. OLD BUSINESS:

A. Discussion and update in regard to securing a backup generator.

6. NEW BUSINESS:

- A. Discussion and possible action on bids for Spare UV parts,
Air Cylinders, Sleeves & Miscellaneous parts/brushes 45
- B. Discussion and possible action on Bids for Replacement Fiberglass
Doors 45
- C. Discussion and possible action on Bids for Refurbishing Pipe Gallery
in RAS Basement & Valve Pits. 45
- D. Discussion and review of Missouri DNR inspection 47-58
- E. Discussion and review of Budget Worksheets 59-62

7. ADDITIONAL DISCUSSION ITEMS

8. ADJOURNMENT

THE NEXT MEETING WILL BE NOVEMBER 21, 2017, 4:00 PM @ LAKE
OZARK CITY HALL

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

Meeting Minutes – September 19, 2017

CALL TO ORDER:

Mayor Franzeskos called the meeting to order at 4:00 pm on Tuesday, September 19, 2017 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 – Richard Ross – Present
Alderman, Lake Ozark – Gerry Murawski – Absent
Public Works Director, Lake Ozark – Matt Michalik – Present
Public Works Director, Osage Beach – Nick Edelman – Present
Resident Member - Gary Hamner – Present

MINUTES:

Alderman Ross made a motion to approve the meeting minutes of August 15, 2017, seconded by Public Works Director Edelman. Motion passed unanimously.

REPORTS:

Public Works Director Michalik made a motion to approve the bills list, seconded by City Administrator Woods, motion passed unanimously.

Mayor Olivarri made a motion to approve / pay an extra invoice from JCI in the amount of \$1,995.00. Second by Alderman Ross. Motion passed unanimously.

Resident Member Hamner made a motion to approve / pay an extra invoice from National Vacuum Equipment, Inc. in the amount of \$2,368.69. Second by Public Works Director Michalik. Motion passed unanimously.

The Revenue Budget, Expenditure Budget Analysis, Income & Expense Summary, Check Registers and Bank Statements were reviewed. Motion was made by Public Works Director Edelman to acknowledge the review of the documents. Seconded by City Administrator Woods. Motion passed unanimously.

Alliance Report of Operations: The daily incoming flow for August was 2.136 mgd. They recorded 12.4 inches of precipitation at the plant. Operationally the plant's discharge was excellent, with an effluent monthly average BOD of 1.3 mg/l and TSS of 1.0 mg/l respectively for August, which represents a 99.1 +% or better removal.

The MLSS average for both aeration basins was 3,980 mg/l in August. The total dry weight sludge inventory for August totaled 196,173 pounds. There were 39 tanker loads or 144,300 gallons of biosolids land applied in August. 41 tanker loads were also received or 103,500 gallons of septage for the month of August.

APPROVAL OF FLOW CHART:

A motion was made by Public Works Director Michalik to approve the Flow Chart. Second by Public Works Director Edelman with unanimous approval.

OLD BUSINESS:

The backup generator was discussed. A report will be presented at the October meeting.

NEW BUSINESS:

A motion was made by Mayor Olivarri to dispose / destroy old financial records not required to be retained. Second by Alderman Ross with unanimous approval.

A motion was made by City Administrator Woods to close the bank account created for the FEMA/SEMA grant until such time as the grant is approved. Second by Public Works Director Edelman with unanimous approval.

ADJOURNMENT:

A motion to adjourn the meeting was made by Mayor Olivarri at 4:20 pm. Second by City Administrator Van Dee with unanimous approval.

Approved on:

Johnnie Franzekos, Mayor

Kathy Vance on behalf of Kimberly Baker

JOINT SEWER BOARD
BILL LIST
OCTOBER 17, 2017

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ 1,995.00
OPERATING FUND BILLS TO BE PAID:	\$ 35,981.61
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ 2,368.69
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$ -

TOTAL \$ 40,345.30

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:	Amount:
4020	3618	JCI Industries, Inc.	RAS Pump	\$ 1,995.00
				\$ -
				\$ -
				\$ -

TOTAL \$ 1,995.00

OPERATING FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4185	3619	Ameren MO	Sept. Service	\$ 5,248.28
4000	3620	Equipment Replacement Fund	Payment into ER Fund	\$ 3,467.00
4170	3621	Alliance Water Resources, Inc.	Management Fee	\$ 25,935.82
4020	3622	Alliance Water Resources, Inc.	A/C Main & chlorine	\$ 161.32
4020	3623	John Henry Foster	UV Spare parts	\$ 1,171.19
				\$ -
				\$ -
				\$ -

TOTAL \$ 35,981.61

EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:	Amount:
	1022	National Vac. Equip.	Vacuum Pump	\$ 2,368.69
				\$ -

TOTAL \$ 2,368.69

EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:

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

TOTAL \$ -

INVOICE

Remit To:

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



INVOICE	
8145656	
Invoice Date	Page
09/11/2017	1 of 1
ORDER NUMBER	
1127326	

Branch 06

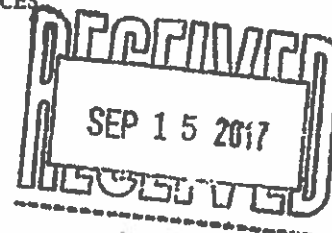
JEFFERSON CITY

Bill To:

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

Ship To:

ALLIANCE WATER RESOURCES
#3 ANDERSON ROAD
LAKE OZARK, MO 65049



Customer ID: 400263

PO Number					Term Description			Net Due Date		
GARY HUTCHCRAFT 8-23-17					Net 30			10/11/2017		
Order Date		Pick Ticket No		Primary Salesrep Name					Order Taker	
7/14/2017 11:09:28		3138490		Ben Reinkemeyer JI					HHASKELL	
Quantities					Item ID			Pricing		
Ordered	Shipped	Remaining	UOM	Dipt.	Item Description			UOM	Unit Price	Extended Price
			Unit Size					Unit Size		
1 00	1.00	0 00	EA		PALLIANCE WATER 7-14-17			EA	1,995.00	1,995.00
			1.0		RAS PUMP			1.0000		

Total Lines: 1

SUB-TOTAL: 1,995.00
TAX: 0.00
AMOUNT DUE: 1,995.00

Carrier: JCI TO DELIVER

Tracking #:

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

pd
C/L # 3618

ORIGINAL



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

FOCUSED ENERGY. For Life.

Account Number 458005832
Customer Name ALLIANCE WATER RESOURCES INC
Service Address 3 ANDERSON RD, -
LAKE OZARK, MO 65049

AMOUNT DUE \$5,201.82

Due Date 10/27/2017

Current Detail for Statement 10/06/2017

Total Electric Charges \$5,201.82

Amount After Due Date \$5,270.85

Total Amount Due \$5,201.82

Previous Statement \$9,810.21

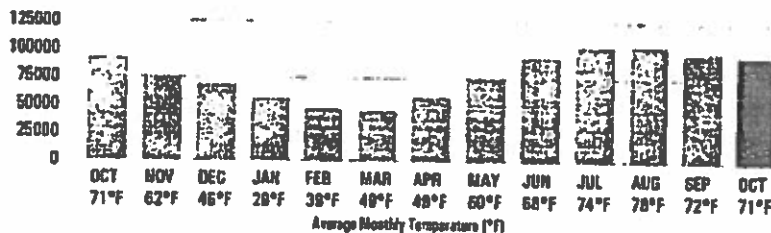
Total Payments \$9,810.21

Payment Received. Thank You.



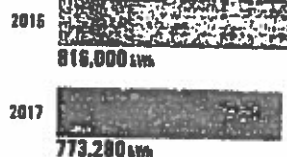
Electric Usage History

Electric Usage in Kilo-watt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using 5.2% less than last year.



Usage from Jan-Oct for 2016 & 2017

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.



See next page for service details.

Keep this portion for your records.

Page 1 of 4



☐ Check if you have address changes on back.

Please return this portion with your payment.

Amount Due	Due Date
\$5,201.82	October 27, 2017
Delinquent Amount After Due Date	Account Number
\$5,270.85	458005832

Amount Enclosed \$

>000096 2263042 0002 072139 102

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

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

20600000 0045800058302 000005201820 000005201820



AmerenMissouri.com
 1.877.426.3736
 PO Box 88058 Chicago, IL 60680-1058
 Ameren payment processing center

FOCUSED ENERGY. *For life.*

Electric Service Details Service from 09/05/2017 - 10/09/2017 (29 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
11673321	09/05 - 10/04	29	Total kWh	Actual	43145.0000	42550.0000	595.0000	100.0000	95200.0000
11673321	09/05 - 10/04	29	Peak kW	Actual	1.2310	0.0000	1.2310	100.0000	197.0000

Usage Summary

Total kWh	95200.0000	Peak kW	197.0000
Total Billing Demand	197.0000	Current Base Demand	131.2000
Base kWh Ratio	0.6658	Base kWh (HUD)	63394.0000
Seasonal kWh (HUD)	31808.0000	October Base Demand	131.2000

Rate 3M Large General Service

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Seasonal Energy Charge	31,808.00	kWh	@ \$ 0.03890000	\$1,237.25
Demand Charge	197.00	kW	@ \$ 2.00000000	\$394.00
Base Energy Charge / Hours Used	18,880.00	kWh	@ \$ 0.06650000	\$1,308.72
Base Energy Charge / Hours Used	26,240.00	kWh	@ \$ 0.04940000	\$1,298.26
Base Energy Charge / Hours Used	17,474.00	kWh	@ \$ 0.03890000	\$679.74
Customer Charge				\$95.07
Fuel Adjustment Charge	95,200.00	kWh	@ \$-0.00026000	\$-24.75
Energy Efficiency Program Charge	95,200.00	kWh	@ \$ 0.00020000	\$19.04
Energy Efficiency Investment Charge	95,200.00	kWh	@ \$ 0.00206400	\$198.49
Total Service Amount				\$5,201.82
Total Electric Charges				\$5,201.82

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
September 25, 2017	\$8,810.21

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

Page 2 of 4

Address Changes or Corrections

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

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		



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

FOCUSED ENERGY. For life.

Account Number 5580005820
 Customer Name ALLIANCE WATER RESOURCES INC
 Service Address 3 ANDERSON RD
 LAKE OZARK, MO 65048

AMOUNT DUE \$44.46

Due Date 10/27/2017

Current Date for Statement 10/06/2017

Total Electric Charges \$44.46

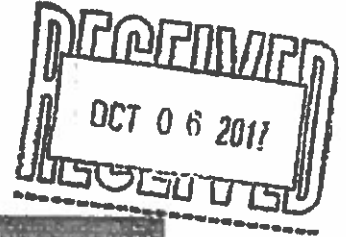
Amount After Due Date \$45.13

Total Amount Due \$44.46

Previous Statement \$55.82

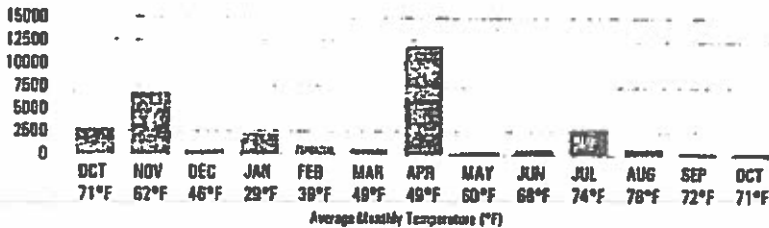
Total Payments \$55.82

Payment Received. Thank You.



Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using **45.8% less** than last year.

2016 37,530 kWh

2017 20,348 kWh

Usage from Jan-Oct for 2016 & 2017

13073 00147 2283042 000277 000553 00010002

Keeping You Informed.

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



See next page for service data is.

Keep this portion for your records.

Page 1 of 4

Please return this portion with your payment.



☐ Check if you have address changes on back.

Amount Due	Due Date
\$44.46	October 27, 2017
Delinquent Amount After Due Date	Account Number
\$45.13	5580005820

Amount Enclosed \$

>000147 2283042 0002 092139 102

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

AMEREN MISSOURI
 PO BOX 88068
 CHICAGO IL 60680-1068

90633000 0055800059200 000000044460 000000044460



■ 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 09/05/2017 - 10/04/2017 (29 Days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
88041276	09/05 - 10/04	29	Total kWh	Actual	15894.0000	15867.0000	27.0000	10.0000	270.0000
88041276	09/05 - 10/04	29	Peak kW	Actual	2.7530	0.0000	2.7530	10.0000	27.5300

Usage Summary

Total kWh	270.0000	Base kWh	1000.0000
Winter Base kWh	1000.0000	Current October Base kWh	270.0000
Seasonal kWh	0.0000		

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

Threshold - Peak Demand

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Base Energy Charge	270.00	kWh	@ \$ 0.08360000	\$22.57
Seasonal Energy Charge	0.00	kWh	@ \$ 0.04020000	\$0.00
Customer Charge				\$21.43
Fuel Adjustment Charge	270.00	kWh	@ \$-0.00025000	\$-0.07
Energy Efficiency Program Charge	270.00	kWh	@ \$ 0.00010000	\$0.03
Energy Efficiency Investment Charge	270.00	kWh	@ \$ 0.08182800	\$0.50
Total Service Amount				\$44.46
Total Electric Charges				\$44.46

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
September 26, 2017	\$55.82

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

Page 2 of 4

Address Changes or Corrections

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

AmerenMissouri.com/WaysToPay

	ONLINE E-CHECK		PHONE 866.269.3729		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) 874-8880 Fax (573) 443-8833

SOLD TO:

Lake Ozark/Osage Beach Joint Utility Board
 c/o Karri Bell
 City of Osage Beach
 1000 City Parkway
 Osage Beach, MO 66065

INVOICE

Invoice No: 7543

Invoice Date: 1-Oct-17

Customer No: 20220

Terms: 30 days

REFERENCE	DESCRIPTION	AMOUNT
	Wastewater Plant operating service for month of: Oct-17 Base Fee	\$25,935.82
TOTAL DUE		\$25,935.82

Alliance Water Resources, Inc.
Professional Water and Wastewater Operations
 206 South Keene Street
 Columbia, Missouri 65201
 (573) 874-8080 Fax (573) 443-0833

SOLD TO:

Lake Ozark/Osage Beach Joint Utility Board
 c/o Karri Bell
 City of Osage Beach
 1000 City Parkway
 Osage Beach, MO 65066

INVOICE

Invoice No: 7544
 Invoice Date: 1-Oct-17
 Customer No: 20220
 Terms: 30 days

REFERENCE	DESCRIPTION	AMOUNT
	Controlled Heating & Cooling - Invoice #7682 - 50%	\$56.32
	Core & Main - Invoice #H763918 - 50%	\$105.00
TOTAL DUE		\$161.32

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

Date	Invoice
9/20/2017	7682

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

*Celebrating 34 Years
 1983 - 2017*

RECEIVED
 SEP 21 2017

P.O. No.	Terms	Project
	Due on receipt	

Description	Qty	Rate	Amount
Labor/hour	0.75	98.00	73.50
LINE TAP	1	21.65	21.65
R410A Freon 8 OZ	1	17.50	17.50
WINDOW UNIT DONE ADDED LINE TAP AND CHARGED WITH 8 OZ R410-A COULD NOT LOCATE LEAK			
Backup AC unit for UV Room			
GL Acct#: 6765-20 \$56.33 1220-20 \$56.32			
Signature: <i>[Signature]</i>			
Date: 9/21/17			
Thank you for your business.	Total		
	\$112.65		



INVOICE

1830 Craig Park Court
St. Louis, MO 63148

Invoice # H763918
Invoice Date 9/07/17
Account # 116902
Sales Rep STEVEN BURKE
Phone # 573-348-1273
Branch # 138 Osage Beach, MO
Total Amount Due \$225.70

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

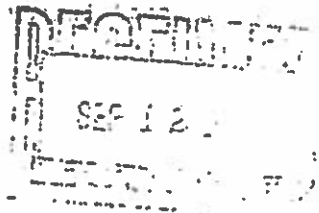
873 1 MB 0.423 E0395X 10564 02814050913 S2 P4620668 0001:0001



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

Shipped to:

CUSTOMER PICK-UP -



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 #
9/06/17	9/06/17	STOCK	STOCK			YOUR TRUCK	H763918

Product Code	Description	Quantity		B/O	Price	UM	Extended Price
		Ordered	Shipped				
96CHL100	100# DRUM GRANULAR CHLORINE	1	1		210.00000	EA	210.00

FOR CLEANING CLARIFIERS

GL Acct#: 6705-20 \$120.70 1220-20 \$105.00
Signature: *Gary Hutchcraft*
Date: 9/12/17

Effective 8/29/2017
Visit: coremain.com
for forms (see right)

HD SUPPLY WATERWORKS IS NOW:

Available on the new website

- New W-9
- Formal name change letter
- FAQ for customers & vendors

Freight	Delivery	Handling	Restock	Misc.	Subtotal:	210.00
					Other:	0.00
					Tax:	15.70
					Invoice Total:	\$225.70

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: www.waterworks.hdsupply.com/TandC.



John Henry Foster

hydraulic and pneumatic equipment

REMIT TO: P.O. BOX 419161
Creve Coeur, MO 63141-9161

Ph (314) 427-0600
Fax (314) 427-3502

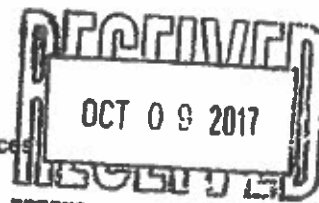
Invoice #	INV-00152122
Page	1 of 1
Invoice Date	09/28/2017

SOLD TO

Account #: C016283
Joint Sewer Board
c/o Alliance Water Resources
P.O. Box 1985
Lake Ozark, MO 65049

SHIP TO

C000462
Alliance Water Resources
#3 Anderson Road
P.O. Box #1985
Lake Ozark, MO 65049



Customer PO Number	Ship Date	Salesperson	Packing Slip #	Terms	Order Date
VERBAL GARY	10/05/2017	John Henry Foster	PS-00314938	Net 20 Days	09/28/2017
JHF Order #	Order Entered By	Placed By	Ship Via / Secondary Ship Via		
SO-00135356	Carla Ficke	Gary Hutchcraft	UPSG BestWay		

Part Number / Description	Ordered	Shipped	Backordered	Price Each	Extension
85565505 I-R FILTER ELEMENTFOR F35IG	1	1	0	79.00	79.00
85565513 I-R F35IHE FILTER ELEMENT	1	1	0	79.00	79.00
85582229 I-R CHECK VALVEPORTD FOR REL VLV & UNLOADER	1	1	0	60.00	60.00
P4100000000-00760 PARKER ORIGA CYLINDER760MM STROKE	1	1	0	678.35	678.35
88347497 IR DESICCANT REPLACEMENTKIT -40 DEWPOINT	1	1	0	82.00	82.00
85565539 I-R FILTER ELEMENTFOR F35ID	1	1	0	92.00	92.00
32498180 I/R TUBE ASSY - DISCHARGE LINE234OL5	1	1	0	25.00	25.00

Review and place orders at www.jhf.com/ Subject to Terms and Conditions at http://www.jhf.com/terms_of_purchase.htm	Subtotal	Charge	Freight	Sales Tax	TOTAL
	1,095.35	0.00	75.84	0.00	1,171.19

4020

NVE

National Vacuum Equipment, Inc.
2707 AERO PARK DR
TRAVERSE CITY MI 49686

Phone: 800-253-5500
Fax: 800-998-6834
Web: www.natvac.com

Page: 1 of 1
Date: 9/14/2017

Invoice: 214953

INVOICE

Sold To:

JOINT SEWER BOARD
PO BOX 1985
LAKE OZARK MO 65049
USA

Ship To:

JOINT SEWER BOARD
#3 ANDERSON RD
LAKE OZARK MO 65049
USA

PO Number: MEC 8000
Sales Rep: Shirley Gray
Packing Slip: 14110
Tracking Number: 3883390965

SO Number: 513619
Ordered: 9/13/2017

Terms: Credit Card

Ship Via: FEDEX PPD
Ship Date: 9/14/2017
Territory: CORP

Line	Part Number/Description	Revision	Quantity	Unit Price	Disc Price	Ext Price
1	424-008-JE COUPLER SLEEVE 8S EPDM		1.00 EACH	47.14/1	47.14/1	47.14
2	300-8000PS MEC8000 DRIP LUBE CCW 8MM KEYWAY		1.00 EACH	2,180.00/1	2,180.00/1	2,180.00

SerialNumber 53236

Miscellaneous Charges

Description	Amount
10.) Sales Freight	141.55

Payment Schedule

Due Date	Amount
1 9/14/2017	0.00
Total	0.00

SubTotal:	2,227.14
Freight:	141.55
Handling/Processing:	
Less Deposit:	2,368.69
Total USD:	0.00

Remit To:
P.O. Box 685
Traverse City, MI 4968

*pd
credit card
chk # 1022*

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

Account Number	Account Name	9/30/2017				2017 Budget	2017 Actual as of 9/30/2017	2017 September Revenue	Percent YTD
		2015 Actual	2016 Actual						
3020	Osage Beach	477,172.03	475,802.57	473,000.00		473,000.00	358,753.68	40,333.80	76%
3010	Lake Ozark	72,827.98	74,197.42	77,000.00		77,000.00	53,746.31	5,499.54	70%
3100	Interest	54.79	368.52	200.00		200.00	614.04	137.17	307%
3060	Waste Haulers' Fee	32,400.00	33,460.00	35,000.00		35,000.00	28,160.00	4,880.00	80%
Total Operating Fund		582,454.80	583,828.51	585,200.00		585,200.00	441,274.03	50,850.51	75%
E/R Fund Income		2,188.83	2,847.67	1,500.00		1,500.00	1,103.20	151.55	74%
TOTAL INCOME		584,643.63	586,676.18	586,700.00		586,700.00	442,377.23	51,002.06	75%

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**MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
9/30/2017**

Account Number	Account Name	2015 Actual	2016 Actual	2017 Budget	2017 Actual as of 9/30/2017	2017 September Expenses	Percent YTD
4000	Equipment Replace Fund	41,606.04	41,606.04	41,604.00	31,203.17	3,467.00	75%
4010	ERF Repayment	0.00	0.00	0.00	0.00	0.00	0%
4020	*Maintenance & Repair	33,878.90	18,735.50	28,000.00	119,070.13	2,709.55	425%
4140	Insurance	16,306.00	16,977.00	17,500.00	17,144.00	0.00	98%
4150	***Vehicle Repair/Maint	1,508.78	951.93	8,000.00	6,452.94	655.06	81%
4160	Haulers Fees to Contractor	8,000.00	8,000.00	8,000.00	8,000.00	0.00	100%
4170	Contract Management	296,233.08	303,638.88	312,750.00	233,422.38	25,935.82	75%
4185	Electric	76,751.19	72,637.17	77,000.00	55,402.73	9,566.03	72%
4190	Bank Charges	0.00	14.85	0.00	0.00	0.00	0%
4200	Audit	2,000.00	2,158.50	2,200.00	2,200.00	0.00	100%
4220	Professional Service	2,369.99	9,193.09	0.00	1,200.00	0.00	0%
4240	Capital Purchases	0.00	0.00	150,000.00	0.00	0.00	0%
	Totals	478,653.98	473,912.96	645,054.00	474,095.35	42,433.46	73%
	**E/R Expenses	1,869.72	7,980.42	26,500.00	6,539.71	2,368.69	25%
	TOTAL EXPENSES	480,523.70	481,893.38	671,554.00	480,635.06	44,802.15	72%
	<u>***Equipment & Replacement</u>						
	Normal E/R	10,000.00					500.00 X
	Replace impellers for RAS pumps	7,500.00					1,500.00
	Rebuild Arm Support Clarifier #2	5,000.00					8,000.00
	Replace doors	4,000.00					8,000.00
		<u>26,500.00</u>					2,000.00
	<u>***Vehicle Repair/Maint</u>						
	Vehicle Maintenance	3,000.00					1,000.00
	Tires for Sludge Truck	5,000.00					7,000.00
		<u>8,000.00</u>					<u>28,000.00</u>
	2016 Budget						
	#1 Aeration Basin grit removal						107,249.88 X

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OPERATING FUND INCOME AND EXPENSE SUMMARY
9/30/2017

Beginning Balance	247,966.99
Income - Osage Beach	40,333.80
Income - Lake Ozark	5,499.54
Income - Other	-
Income - Waste Haulers' Fees	4,880.00
Interest - Checking	48.64
Income - CD Interest	-
Transfers From E/R Fund	-
Transfers to E/R Fund	(3,467.00)
Expenses	(36,966.46)
Ending Fund Balance	258,295.51
Central Bank - NOW Acct.	105,433.73
First Bank of the Lake - Money Mkt.	100,598.10
CD St. Elizabeth, 3/18 #400886	50,263.68
Outstanding Checks:	-
Deposit in Transit:	-
	256,295.51

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
9/30/2017

Beginning Balance	511,774.32
Interest - Checking	63.02
Income - CD Interest	88.53
Transfers From E/R Fund	3,467.00
Transfers to E/R Fund	-
Income - Miscellaneous	-
Expenses	(2,368.69)
Ending Fund Balance	513,024.18
First Bank of the Lake - Money Mkt.	161,586.53
CD Providence Bank, 10/17 #1268880	201,943.73
CD First Bank of the Lake, 01/18 #101318429	101,598.93
CD St. Elizabeth, 3/18 #485431	50,263.68
Deposit in Transit	-
Outstanding Checks:	(2,368.69)
	513,024.18

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Operating Fund
CHECK REGISTER - JOINT SEWER BOARD OPERATION FUND

					reconciled balance 5/31/17	77,164.33
3595	Ameren MO	X	9,413.41	-		67,750.92
3596	Equipment Replacement Fund	X	3,467.00			64,283.92
3597	Alliance Water Resources, Inc.	X	25,935.82			38,348.10
3598	Alliance Water Resources, Inc.	X	2,320.00			36,028.10
3599	Alliance Water Resources, Inc.	X	1,374.90			34,653.20
3600	CED Inc.	X	2,450.00	-		32,203.20
3601	White Industrial Seismology	X	1,200.00	-		31,003.20
	Deposit LO	X	-	5,996.29		36,999.49
	Deposit OB	X		39,837.04		76,836.53
	Deposit	X		3,300.00		80,136.53
	Interest	X		6.84		80,143.37
					reconciled balance 6/30/17	80,143.37
3602	Ameren MO	X	9,387.63	-		70,755.74
3603	Equipment Replacement Fund	X	3,467.00			67,288.74
3604	Alliance Water Resources, Inc.	X	25,935.82			41,352.92
3605	Alliance Water Resources, Inc.	X	1,650.00			39,702.92
3606	Alliance Water Resources, Inc.	X	708.54			38,994.38
3607	Gerding, Korte & Chitwood	X	2,200.00	-		36,794.38
	Deposit LO	X	-	6,145.67		42,940.05
	Deposit OB	X		39,687.66		82,627.71
	Deposit	X		4,300.00		86,927.71
	Interest	X		7.75		86,935.46
					reconciled balance 7/31/17	86,935.46
3608	Ameren MO	X	9,309.73	-		77,625.73
3609	Equipment Replacement Fund	X	3,467.00			74,158.73
3610	Alliance Water Resources, Inc.	X	25,935.82			48,222.91
3611	Alliance Water Resources, Inc.	X	580.00			47,642.91
3612	Alliance Water Resources, Inc.	X	479.17			47,163.74
	Deposit LO	X	-	5,271.18		52,434.92
	Deposit OB	X		40,562.15		92,997.07
	Deposit	X		4,140.00		97,137.07
	Interest	X		8.24		97,145.31
					reconciled balance 8/31/17	97,145.31
3613	Ameren MO	X	9,666.03	-		87,479.28
1314	Equipment Replacement Fund	X	3,467.00			84,012.28
1315	Alliance Water Resources, Inc.	X	25,935.82			58,076.46
1316	Alliance Water Resources, Inc.	X	962.21			57,114.25
1317	Mission Communications LLC	X	407.40			56,706.85
1318	JCI Industries	X	1,995.00			54,711.85
	Deposit LO	X	-	5,499.54		60,211.39
	Deposit OB	X		40,333.80		100,545.19
	Deposit	X		4,880.00		105,425.19
	Interest	X		8.54		105,433.73
					reconciled balance 9/30/17	105,433.73

EN



Central Bank
of Lake of the Ozarks

MANAGER FIVE

P.O. Box 4500, Jefferson City, MO 65102
(573) 348-2761

RETURN SERVICE REQUESTED

OSB011001 011 OSB001

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

Period 09/01/2017 - 09/29/2017 Page 1 of 2

Web Address
www.centralbank.net

M
000007297

Your Financial Summary on September 29, 2017

	Bank Deposits	Totals
Bank Deposit Accounts:		
Checking	\$ 105,433.73	
Bank Deposit Total		\$ 105,433.73
Total Assets:	\$ 105,433.73	\$ 105,433.73

Detailed Explanation of Account Balances and Other Assets

Basic Plus Interest Checking

No. 000007297 Beginning Balance August 31, 2017 \$ 97,145.31

Deposits

Sep. 19	Deposit	5,499.54
Sep. 19	Deposit	40,333.80
Sep. 20	Deposit	900.00
Sep. 29	Deposit	3,980.00
Sep. 29	Interest Earned	8.54

Total +\$ 50,721.88

Checks

Check No.	Date Paid	Amount	Check No.	Date Paid	Amount
3613	Sep. 26	9,666.03	3616	Sep. 21	962.21
3614	Sep. 21	3,467.00	3617	Sep. 27	407.40
3615	Sep. 21	25,935.82	3618	Sep. 25	1,995.00
		Total			-\$ 42,433.46

Ending Balance September 29, 2017 \$ 105,433.73

Number of days since last statement/interest cycle 30
Beginning and ending dates for calculation of statement/interest cycle are 09/01/2017 through 09/30/2017
Average collected balance 103,857.00
Interest rate 0.10%
Annual percentage yield earned 0.10%

End of Bank Deposits

JSB - CHECK REGISTERS 2017

CHECK REGISTER - JOINT SEWER BOARD EQUIPMENT REPLACEMENT FUND

	reconciled balance 5/31/17				
1018	VOID			-	252,065.31
1019	HD Supply Waterworks	X	2,837.77		252,065.31
1020	G&L Welding	X	1,163.75		249,227.54
	Interest	X			248,063.79
	Deposit	X		103.17	248,166.96
	reconciled balance 6/30/17			3,467.00	251,633.96
1021	Alliance Water Resources	X	169.50		251,633.96
	Interest	X			251,464.46
	Deposit	X		107.22	251,571.68
	reconciled balance 7/31/17			3,467.00	255,038.68
	Interest	X			255,038.68
	Deposit	X		108.83	255,147.51
	reconciled balance 8/31/17			3,467.00	258,614.51
					258,614.51



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

536 00010 01
ACCOUNT:
DOCUMENTS:

PAGE: 1
1/29/2017

1

00125 2736832 10Z ATM 608.55,1.5

LAKE OZARK-OSAGE BEACH JOINT SEWER TREAT
SEWER BD.-TREATMENT PLANT BD.
1000 CITY PKWY
OSAGE BEACH MO 65065-3058



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BUSINESS MONEY MARKET ACCOUNT 101318411 (BUSINESS MONEY MARKET)

LAST STATEMENT 08/31/17	258,614.51
2 CREDITS	3,570.12
DEBITS	.00
THIS STATEMENT 09/29/17	262,184.63

- - - - - DEPOSITS - - - - -		
REF #	DATE	AMOUNT
	09/20	3,467.00

- - - - - OTHER CREDITS - - - - -		
DESCRIPTION	DATE	AMOUNT
INTEREST	09/29	103.12

- - - - - I N T E R E S T - - - - -		
AVERAGE LEDGER BALANCE:	259,810.02	INTEREST EARNED: 103.12
AVERAGE AVAILABLE BALANCE:	259,570.92	DAYS IN PERIOD: 29
INTEREST PAID THIS PERIOD:	103.12	ANNUAL PERCENTAGE YIELD EARNED: .50%
INTEREST PAID 2017:	927.17	

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



**OPERATING
DIVISIONS**

MISSOURI

Ashland
Atchison County
Bonne Terre
Boonville
Bowling Green
Buchanan County #1
Cameron
Cape Girardeau
Carroll County #1
Clay County
Craig
East Central Missouri
Water & Sewer
Authority
Elsberry
Festus/Crystal City
Franklin County #1
Franklin County #3
Henry County
Water Company
Henry County #3
Kimberling City
Lake Ozark/
Osage Beach
Lincoln County #1
Neosho
Nevada
Parkville
Phelps County #2
Platte County #C-1
Proctor & Gamble
Ralls County #1
Sedalla
St Charles County #2
St Genevieve
Versailles

IOWA

Maquoketa
Tipton

TENNESSEE

South Fulton



REPORT OF OPERATIONS

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

Month of September 2017

Submitted by Alliance Water Resources, Inc. for the

October 2017

Joint Sewer Board Meeting

SUMMARY OF FACILITY OPERATION

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

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

PLANT EFFLUENT QUALITY

	BOD mg/l	TSS mg/l	pH	E.coli Colonies/100 ml	Coliform	Ammonia as N mg/L	O&G mg/L	Metals Selenium ug/L
Monthly Average	1.0	1.0	NA	1.4		0.03	< 5.0	< 1.0
Peak Day	1.1	1.1	8.1	1.8		0.04	< 5.0	< 1.0
Percent Removal	99.4	99.5	NA	NA		NA	NA	NA

NPDES EFFLUENT LIMITATIONS

	BOD mg/l	TSS mg/l	pH	E.coli Colonies/100 ml	Coliform	Ammonia as N mg/L	O&G mg/L	Metals Selenium ug/ L
Monthly Average	30	30	6-9	126		1.2	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 1.799 MGD or 60% 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 74077 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 16 tanker loads of bio-solids during the month equivalent to a total of 59,200 gallons and 17,311 pounds dry weight solids.

461,451 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 486,875 gallons with a level of 6.0 feet in Tank 1 and 3.5 feet in Tank 2.

WASTEHAULERS

The plant received 48 loads of septage during the month totaling 122,000 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)
- The sludge truck vac pump started overheating on the 5th of October, so we took it up to Roemer's and they installed new vanes, inner and outer bearings but that didn't take care of the problem. The inside of the pump where the vanes rotate was wash boarded so bad that the pump was trying to lockup. We ordered the new pump and it came in on the 18th and when they were installing it they noticed a sticker on it requiring a specific type of oil, so he had to special order it. We got the truck back from the shop on the 27th.
- We came in on the 25th of October and found that Clarifier #2 gear motor had quit, so we changed it, the drive chain & sprocket out with the spare that we had in inventory that afternoon.
- We got the rebuilt RAS pump back from JCI on the 7th of September and we installed it on the 21st and the new mechanical seal leaked. We took it back off line and contacted them of the situation and they said it would be covered under warranty. We pulled it and they came and picked it backup on the 2nd of October.

SAFETY

- We conducted our monthly routine Safety Meeting on Confined Space Safety on the 7th of September.

REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the EDMR on MDNR's website on the 5th of October.
- We got inspected by MDNR's, Sieu T. Dang on the 29th of August and we received his inspection report on 21st of September. (see attachment)
- You will also find attached a copy of both Cities bi-annual I & I Flow report that was included with September's EDMR.

MISCELLANEOUS AND RECOMMENDATIONS

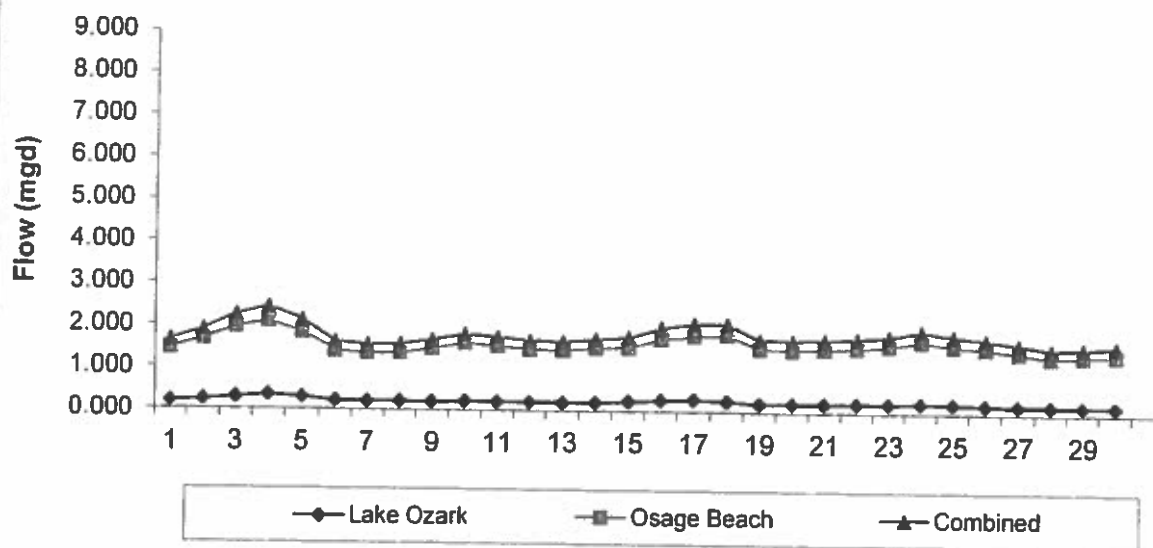
- We would like to Thank Matt and the City of Lake Ozark again for sending their service truck with employee to assist us with pulling out the newly rebuilt RAS pump back out the basement. Many Thanks!

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF September 2017

DATE	RAIN FALL IN.	FLOW					BOD 5 MG/L			TSS MG/L		
		LO mgd	OB mgd	COMB mgd	% LO	% OB	LO mg/l	OB mg/l	COMB mg/l	LO mg/l	OB mg/l	COMB mg/l
1-Sep	0	0.194	1.451	1.645	11.8	88.2	195	185	140	170	186	192
2-Sep	0	0.230	1.670	1.900	12.1	87.9						
3-Sep	0	0.292	1.961	2.253	13.0	87.0						
4-Sep	0	0.347	2.091	2.438	14.2	85.8						
5-Sep	0	0.296	1.838	2.134	13.9	86.1						
6-Sep	0.2	0.212	1.400	1.612	13.2	86.8						
7-Sep	0	0.205	1.340	1.545	13.3	86.7						
8-Sep	0	0.207	1.351	1.558	13.3	86.7	180	218	140	172	262	192
9-Sep	0	0.201	1.466	1.667	12.1	87.9						
10-Sep	0	0.216	1.592	1.808	11.9	88.1						
11-Sep	0	0.213	1.533	1.746	12.2	87.8						
12-Sep	0	0.208	1.455	1.663	12.5	87.5						
13-Sep	0	0.203	1.437	1.640	12.4	87.6						
14-Sep	0	0.203	1.504	1.707	11.9	88.1						
15-Sep	0	0.237	1.520	1.757	13.5	86.5	170	173	140	140	150	188
16-Sep	0	0.273	1.720	1.993	13.7	86.3						
17-Sep	0.25	0.296	1.795	2.091	14.2	85.8						
18-Sep	0.75	0.262	1.835	2.097	12.5	87.5						
19-Sep	0	0.207	1.517	1.724	12.0	88.0						
20-Sep	0.3	0.220	1.491	1.711	12.9	87.1						
21-Sep	0	0.215	1.517	1.732	12.4	87.6						
22-Sep	0	0.226	1.539	1.765	12.8	87.2	183	163	150	148	196	212
23-Sep	0	0.227	1.600	1.827	12.4	87.6						
24-Sep	0	0.249	1.710	1.959	12.7	87.3						
25-Sep	0	0.237	1.607	1.844	12.9	87.1						
26-Sep	0	0.213	1.551	1.764	12.1	87.9						
27-Sep	0	0.200	1.458	1.658	12.1	87.9						
28-Sep	0	0.195	1.343	1.538	12.7	87.3						
29-Sep	0	0.191	1.385	1.576	12.1	87.9	160	245	253	142	188	278
30-Sep	0	0.191	1.419	1.610	11.9	88.1						
SUM	1.5	6.866	47.096	53.962								
AVG		0.229	1.570	1.799	13	87	178	197	165	154	196	212
NOTE: BOLD PRINT INDICATES WEEKEND DAYS												

**Daily Flow
Figure 1**



**Effect of Rainfall on Flow
Figure 2**

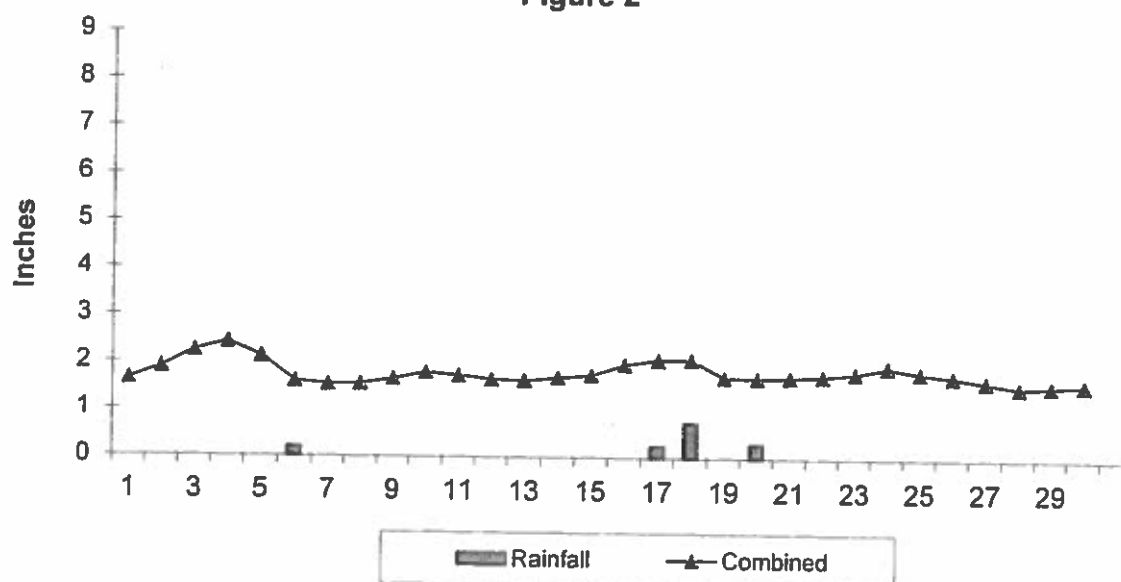


TABLE B
JOINT SEWER BOARD
Monthly Flows

<u>2015</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	0.9	26,319,000	87%	4,085,000	13%	30,404,000	100%
February	1.4	21,892,000	86%	3,465,000	14%	25,357,000	100%
March	4.5	32,996,000	87%	4,920,000	13%	37,916,000	100%
April	4.0	37,220,000	86%	5,945,000	14%	43,165,000	100%
May	7.2	44,456,000	86%	7,209,000	14%	51,665,000	100%
June	7.1	54,745,000	86%	8,769,000	14%	63,514,000	100%
July	9.7	66,474,000	86%	10,871,000	14%	77,345,000	100%
August	3.5	51,695,000	88%	7,327,000	12%	59,022,000	100%
September	3.1	43,144,000	87%	6,531,000	13%	49,675,000	100%
October	1.8	36,230,000	87%	5,216,000	13%	41,446,000	100%
November	10.8	37,047,000	86%	6,247,000	14%	43,294,000	100%
December	11.7	44,392,000	84%	8,603,000	16%	52,995,000	100%

65.7	496,610,000	87%	79,188,000	13%	575,798,000	100%
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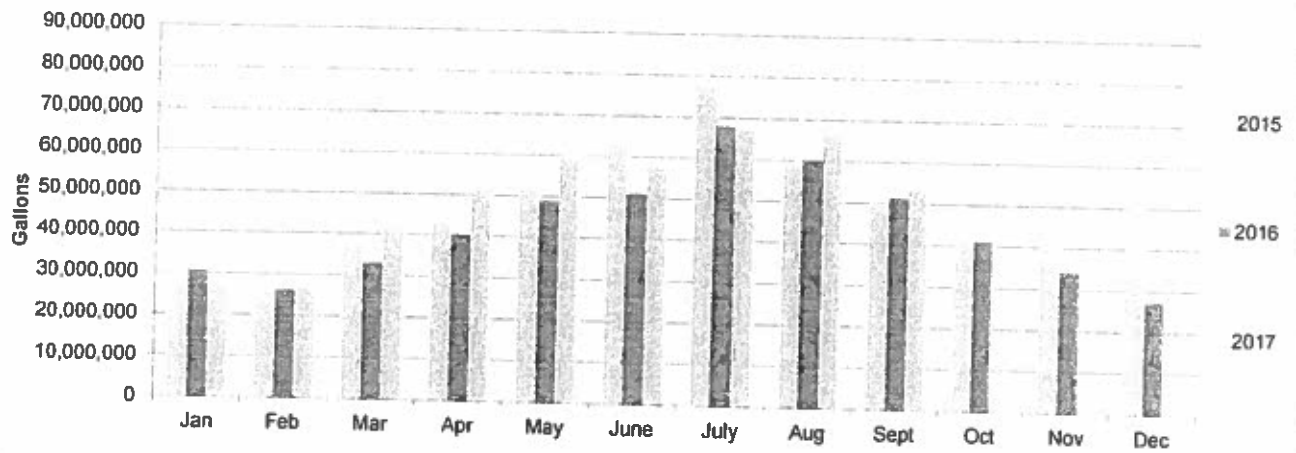
<u>2016</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	0.8	26,604,000	87%	4,001,000	13%	30,605,000	100%
February	0.8	22,444,000	86%	3,661,000	14%	26,105,000	100%
March	3.1	28,785,000	87%	4,251,000	13%	33,036,000	100%
April	5.3	35,053,000	87%	5,231,000	13%	40,284,000	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%
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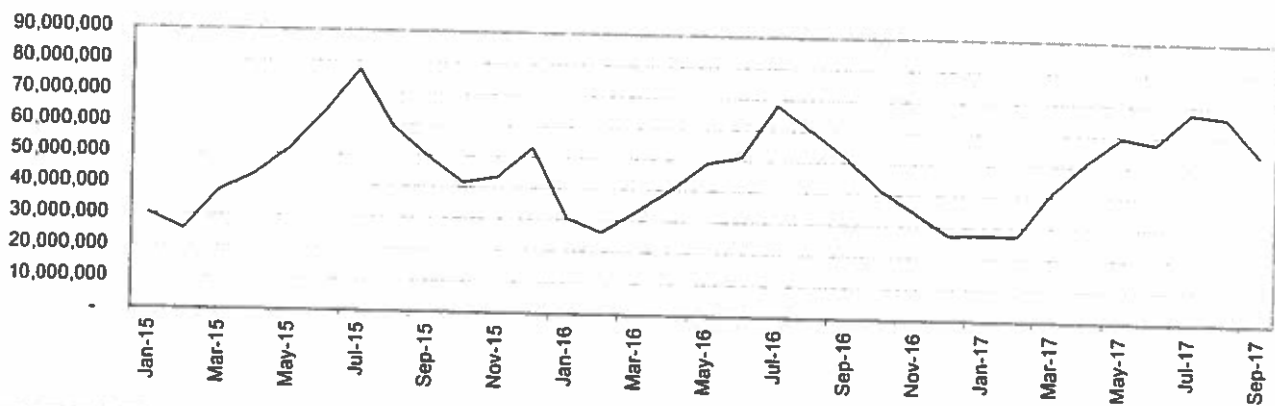
<u>2017</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	2.5	23,440,000	86%	3,909,000	14%	27,349,000	100%
February	0.7	23,345,000	86%	3,812,000	14%	27,157,000	100%
March	3.8	36,554,000	88%	4,844,000	12%	41,398,000	100%
April	9.8	44,665,000	87%	6,723,000	13%	51,388,000	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							
November							
December							

46.9	394,636,000	87%	57,252,000	13%	451,888,000	100%
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Monthly Influent Flow
Figure 3A



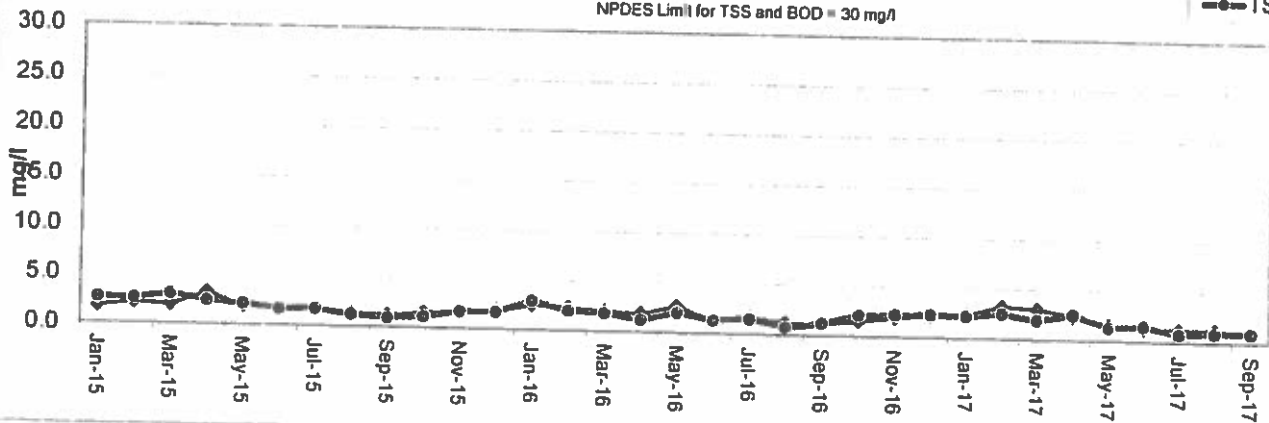
Monthly Influent Flow
Figure 3B



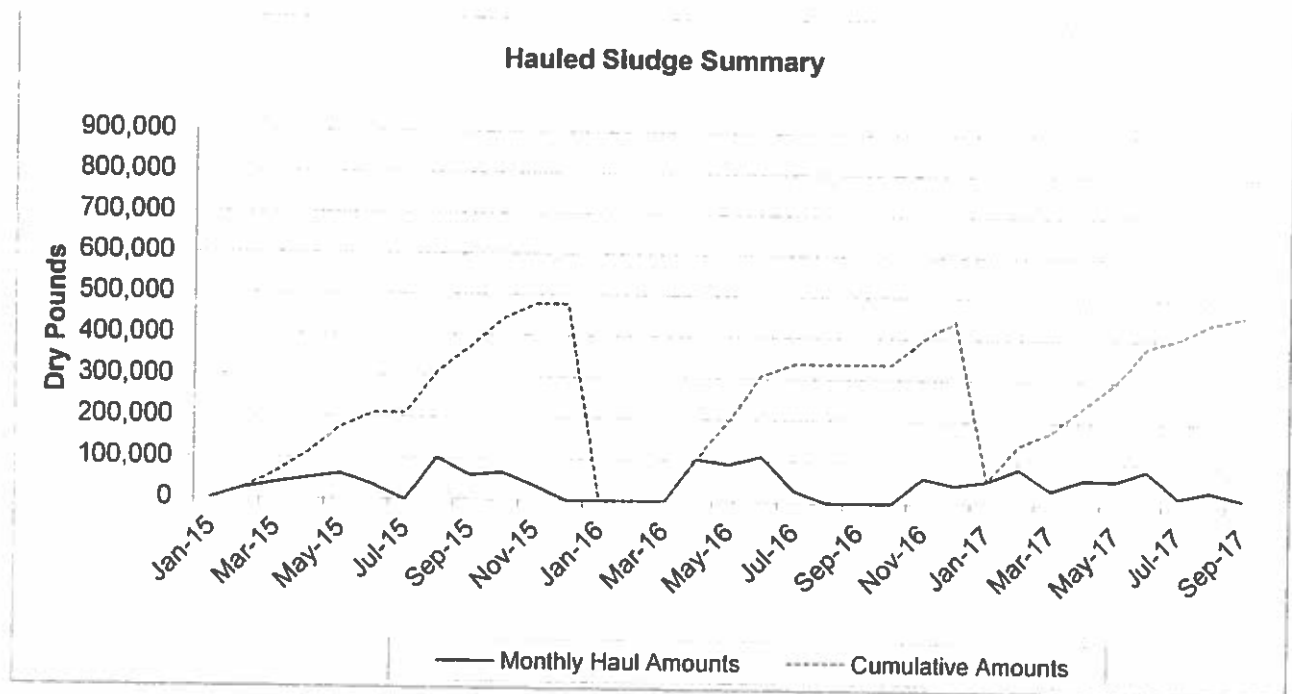
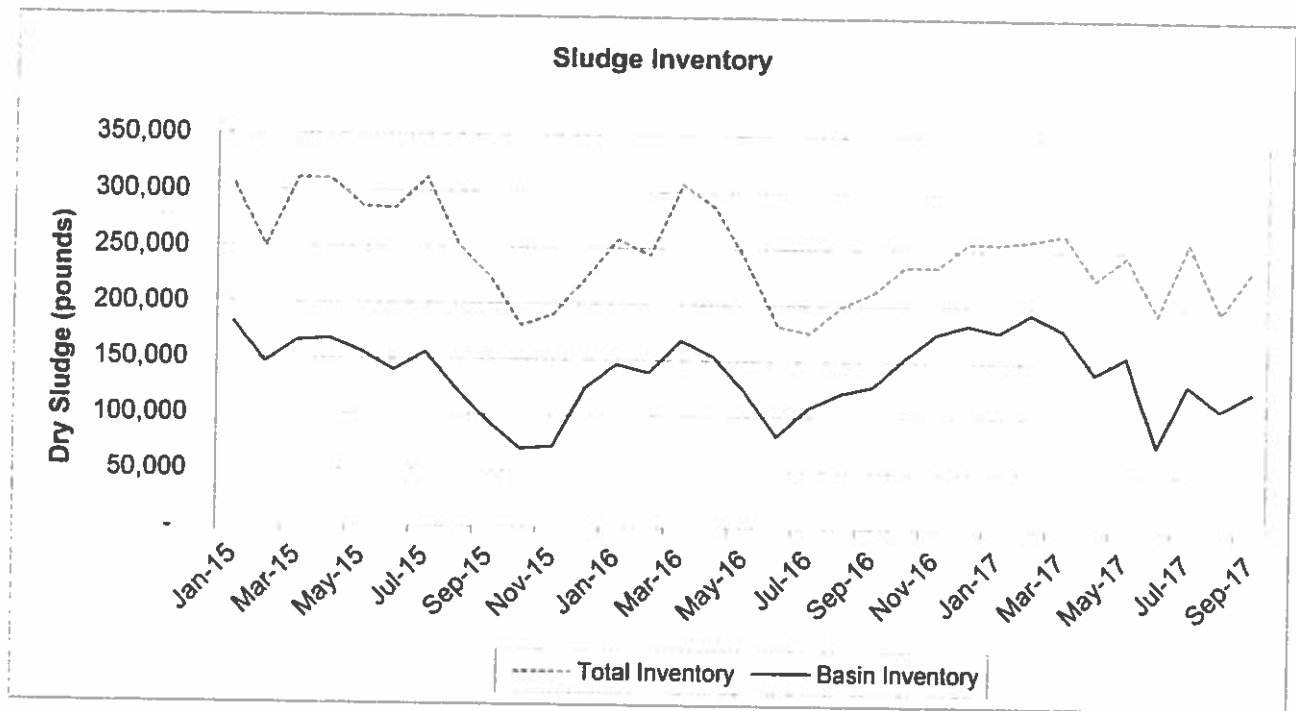
Effluent BOD/TSS
Figure 4

NPDES Limit for TSS and BOD = 30 mg/l

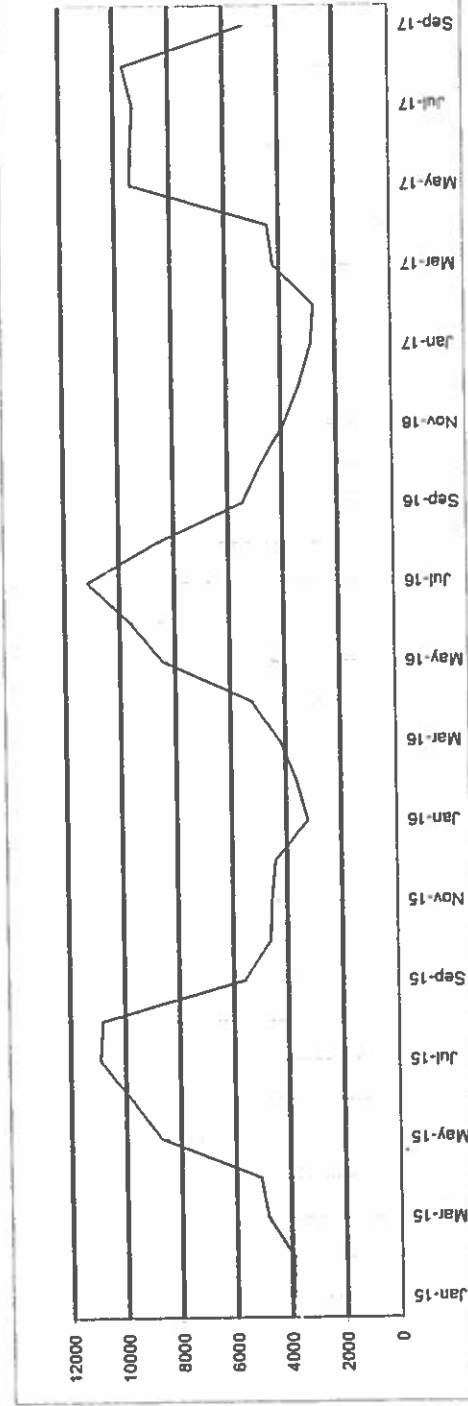
◆ BOD
● TSS



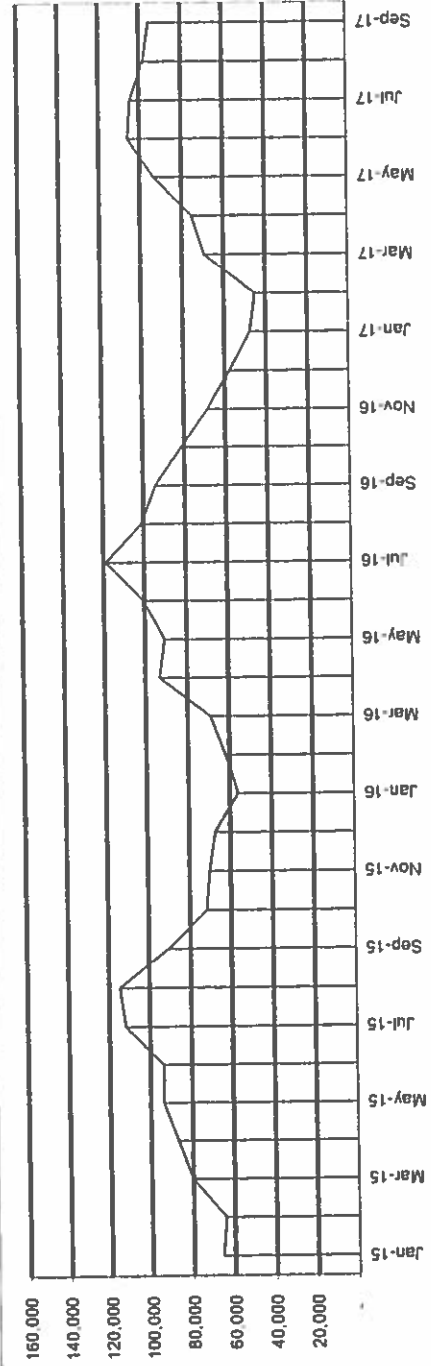
Date	Loads	Hauled Sludge				Basin Depths				Blanket Depths				MLSS Inventory				Blanket and MLSS Inventory				Accepted Septage			
		Gallons	# Dry	% Solids	Annual Cumulative # Dry	Tank #1	Tank #2	AB #1	Basin Gallons	# Dry	Clart #1	Clart #2	Clart #3	MLSS AB #1	MLSS AB #2	Gallons	# Dry	% Solids	MLSS Inventory	Gallons	# Dry	Loads	Gallons	# Dry	% Solids
Jan-14	0	-	0	4.3%	-	4	0	0.0	405,000	145,241	20	2.5	0.0	3,960	3,960	3,678,929	117,392	0.00383	117,392	3,678,929	117,392	22	54,500	262,633	283,341
Feb-14	0	-	0	4.3%	-	50	5.5	0.0	472,500	169,448	1.5	2.5	0.0	3,410	4,030	3,671,048	113,694	0.00372	113,694	3,671,048	113,694	6	15,000	283,341	283,341
Mar-14	29	107,300	35,703	4.0%	35,703	50	5.5	0.0	495,000	149,733	0.5	0.5	0.5	4,270	4,230	3,639,476	129,001	0.00425	129,001	3,639,476	129,001	35	90,500	278,734	278,734
Apr-14	85	240,500	77,176	3.8%	112,879	7.5	3.5	0.0	495,000	158,845	1.5	1.0	1.5	4,420	3,710	3,709,547	125,761	0.00407	125,761	3,709,547	125,761	30	75,000	284,606	284,606
May-14	96	355,200	111,613	3.8%	224,492	5.5	3.5	0.0	405,000	127,281	1.0	2.0	2.0	3,550	2,630	3,775,666	96,986	0.00308	96,986	3,775,666	96,986	24	60,000	245,638	245,638
Jun-14	41	151,700	40,455	3.2%	264,947	4.5	5.5	0.0	450,000	120,005	3.0	2.0	2.0	3,530	2,630	3,775,666	96,986	0.00308	96,986	3,775,666	96,986	26	61,000	216,991	216,991
Jul-14	117	432,900	112,282	3.1%	377,239	6.5	2.0	0.0	382,500	99,219	5.0	1.5	1.5	4,030	3,610	3,780,595	120,445	0.00382	120,445	3,780,595	120,445	44	111,500	219,664	219,664
Aug-14	107	395,900	102,973	3.1%	480,212	5.5	0.0	0.0	247,500	64,374	1.0	1.0	1.0	3,860	2,640	3,678,952	97,110	0.00317	97,110	3,678,952	97,110	55	129,000	161,484	161,484
Sep-14	17	62,900	19,811	3.8%	500,023	2.5	1.5	0.0	180,000	56,693	0.0	1.5	1.0	2,670	3,210	3,670,071	89,989	0.00294	89,989	3,670,071	89,989	37	92,500	146,682	146,682
Oct-14	5	18,500	6,789	4.4%	506,812	4.0	1.0	0.0	225,000	82,569	0.0	1.5	2.0	2,890	3,330	3,678,952	106,775	0.00348	106,775	3,678,952	106,775	20	50,000	189,341	189,341
Nov-14	0	-	0	4.4%	506,812	50	4.0	0.0	495,000	149,619	0.0	2.0	2.0	3,480	3,060	3,722,380	101,516	0.00403	101,516	3,722,380	101,516	18	40,000	250,135	250,135
Dec-14	0	-	0	4.4%	506,812	5.5	5.5	0.0	495,000	146,365	2.0	2.0	2.0	3,900	3,250	3,635,524	104,150	0.00344	104,150	3,635,524	104,150	21	52,500	250,516	250,516
Jan-15	0	-	0	3.9%	24,069	6.0	4.0	0.0	450,000	165,704	1.0	2.0	2.0	5,040	4,000	3,723,357	142,532	0.00459	142,532	3,723,357	142,532	23	57,500	310,393	310,393
Feb-15	20	74,000	24,069	3.9%	62,679	5.5	6.5	0.0	540,000	167,881	2.5	2.0	1.0	5,180	4,000	3,723,357	142,532	0.00459	142,532	3,723,357	142,532	26	65,000	288,049	288,049
Mar-15	34	125,800	38,603	3.7%	113,279	6.0	6.0	0.0	540,000	155,845	1.5	2.0	1.0	4,030	4,110	3,635,570	144,837	0.00459	144,837	3,635,570	144,837	37	92,500	284,798	284,798
Apr-15	44	162,800	50,607	3.7%	174,563	5.5	6.0	0.0	517,500	139,981	2.0	1.0	3.0	4,460	3,440	3,709,547	99,000	0.00369	99,000	3,709,547	99,000	42	104,000	312,282	312,282
May-15	55	203,500	61,284	3.8%	209,587	6.5	3.5	0.0	517,500	158,125	1.0	2.0	1.0	4,170	4,480	3,678,952	130,400	0.00425	130,400	3,678,952	130,400	32	80,000	223,925	223,925
Jun-15	30	111,000	35,734	3.9%	247,046	4.5	4.0	0.0	450,000	124,412	0.5	0.5	0.5	3,760	3,610	3,617,762	111,184	0.00347	111,184	3,617,762	111,184	22	55,000	225,551	225,551
Jul-15	0	-	0	3.9%	247,046	5.0	5.0	0.0	450,000	146,367	0.5	0.5	0.5	3,760	3,610	3,617,762	111,184	0.00347	111,184	3,617,762	111,184	6	15,000	244,260	244,260
Aug-15	107	395,900	102,356	3.1%	311,943	6.5	4.0	0.0	472,500	122,160	1.0	1.0	1.0	4,670	4,320	3,714,476	139,249	0.00426	139,249	3,714,476	139,249	44	110,000	307,571	307,571
Sep-15	55	203,500	60,420	3.6%	372,363	5.5	1.5	0.0	315,000	93,525	1.0	1.0	1.0	5,540	3,160	3,732,238	116,343	0.00372	116,343	3,732,238	116,343	40	100,000	236,766	236,766
Oct-15	59	218,300	67,949	3.7%	440,312	4.0	1.0	0.0	225,000	72,434	1.0	1.0	1.0	3,770	3,670	3,750,000	99,155	0.00321	99,155	3,750,000	99,155	30	75,000	181,494	181,494
Nov-15	30	111,000	35,734	3.9%	476,046	3.0	2.0	0.0	225,000	72,434	2.0	0.5	1.5	4,460	3,440	3,709,547	99,000	0.00369	99,000	3,709,547	99,000	48	111,000	175,618	175,618
Dec-15	0	-	0	3.9%	476,046	4.5	4.0	0.0	382,500	124,412	0.5	0.5	0.5	3,760	3,610	3,617,762	111,184	0.00347	111,184	3,617,762	111,184	43	96,000	199,482	199,482
Jan-16	0	-	0	3.9%	476,046	5.0	5.0	0.0	450,000	146,367	0.5	0.5	0.5	3,760	3,610	3,617,762	111,184	0.00347	111,184	3,617,762	111,184	35	75,000	235,045	235,045
Feb-16	0	-	0	3.9%	476,046	6.0	3.5	0.0	427,500	139,049	2.0	2.0	1.0	4,670	4,320	3,714,476	139,249	0.00426	139,249	3,714,476	139,249	11	20,000	234,497	234,497
Mar-16	0	-	0	3.9%	476,046	6.0	5.5	0.0	472,500	153,914	2.5	1.0	1.5	5,540	3,160	3,732,238	116,343	0.00372	116,343	3,732,238	116,343	26	54,500	256,348	256,348
Apr-16	86	318,200	103,652	3.9%	103,652	5.5	5.0	0.0	472,500	122,423	1.0	1.0	1.0	3,770	3,670	3,750,000	99,155	0.00321	99,155	3,750,000	99,155	15	37,500	255,986	255,986
May-16	77	284,900	91,185	3.8%	194,837	6.0	3.0	0.0	382,500	82,339	1.5	1.0	1.0	4,670	4,320	3,714,476	139,249	0.00426	139,249	3,714,476	139,249	5	12,500	258,991	258,991
Jun-16	99	366,300	111,706	3.7%	306,543	6.0	3.0	0.0	270,000	82,339	1.5	1.0	1.0	3,770	3,670	3,750,000	99,155	0.00321	99,155	3,750,000	99,155	41	102,500	265,019	265,019
Jul-16	28	103,600	29,408	3.4%	335,951	6.0	4.0	0.0	382,500	108,577	1.0	1.0	1.0	4,670	4,320	3,714,476	139,249	0.00426	139,249	3,714,476	139,249	8	20,000	224,939	224,939
Aug-16	0	-	0	3.4%	335,951	4.5	4.0	0.0	382,500	108,577	1.0	1.0	1.0	4,670	4,320	3,714,476	139,249	0.00426	139,249	3,714,476	139,249	45	116,000	246,426	246,426
Sep-16	0	-	0	3.4%	335,951	6.0	3.5	0.0	427,500	121,222	1.0	1.0	1.0	4,670	4,320	3,714,476	139,249	0.00426	139,249	3,714,476	139,249	33	82,500	194,610	194,610
Oct-16	0	-	0	3.4%	335,951	6.5	5.5	0.0	450,000	153,122	1.0	1.0	1.0	4,670	4,320	3,714,476	139,249	0.00426	139,249	3,714,476	139,249	43	107,500	258,426	258,426
Nov-16	52	192,400	62,457	3.9%	398,408	6.5	5.5	0.0	540,000	175,295	1.0	1.0	1.0	4,670	4,320	3,714,476	139,249	0.00426	139,249	3,714,476	139,249	41	103,500	196,173	196,173
Dec-16	36	133,200	45,237	4.1%	443,645	7.5	4.5	0.0	540,000	183,393	1.0	1.0	1.0	4,670	4,320	3,714,476	139,249	0.00426	139,249	3,714,476	139,249	48	122,000	234,892	234,892
Jan-17	47	173,000	56,748	3.9%	500,393	6.0	6.0	0.0	540,000	177,132	1.5	0.0	1.0	5,080	4,090	1,913,499	85,420	0.00508	85,420	1,913,499	85,420	15	37,500	255,986	255,986
Feb-17	68	251,600	86,649	4.1%	587,042	5.5	7.0	0.0	562,500	183,720	1.5	0.0	1.0	5,080	4,090	1,913,499	85,420	0.00508	85,420	1,913,499	85,420	5	12,500	258,991	258,991
Mar-17	33	122,100	34,808	3.4%	621,850	7.5	6.5	0.0	630,000	178,599	3.0	0.0	1.5	5,400	4,630	2,184,858	90,198	0.00295	90,198	2,184,858	90,198	41	102,500	265,019	265,019
Apr-17	59	218,300	61,954	3.8%	683,804	6.5	4.5	0.0	495,000	140,573	8.0	10.0	1.5	5,400	4,630	2,184,858	90,198	0.00295	90,198	2,184,858	90,198	8	20,000	224,939	224,939
May-17	51	188,700	59,556	3.8%	743,360	7.0	4.0	0.0	495,000	156,228	1.0	1.5	0.5	5,400	4,630	2,184,858	90,198	0.00295	90,198	2,184,858	90,198	45	116,000	246,426	246,426
Jun-17	75	277,500	85,724	3.7%	829,084	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	118,153	3,762,833	118,153	33	82,500	194,610	194,610
Jul-17	20	74,000	21,631	3.5%	850,715	4.5	5.5	0.0	450,000	131,540	1.0	1.0	1.0	4,530	3,000	3,762,833	118,153	0.00377	118,153	3,762,833	118,153	43	107,500	258,426	258,426
Aug-17	39	144,300	37,030	3.1%	887,745	5.0	4.5	0.0	427,500	109,704	1.0	0.5	1.0	2,910	2,740	3,670,071	88,489	0.00283	88,489	3,670,071	88,489	41	103,500	196,173	196,173
Sep-17	16	59,200																							



Electric Cost



Kilowatts Used





MISSOURI DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
 Discharge Monitoring Report For Municipal Wastewater Treatment Plants

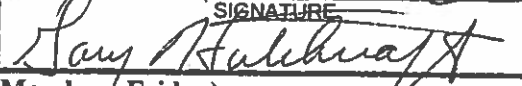
NAME OF FACILITY						LOCATION ADDRESS & CITY							COUNTY/REGION	
Lake of the Ozarks Regional WWTP #1						#3 Anderson Road							Miller/SWRO	
MONTH/YEAR		PERMIT NUMBER				OUTFALL NUMBER		TYPE TREATMENT FACILITY						
Sep-17		MO-0103241				#001		Oxidation Ditch/UV/Sludge Holding-sludge is land applied						
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	7.3	140	192	23	1.650	7.9	1.0	1.0		5.6		22.5	99.3	99.5
2	7.4			22.7	1.861	7.9				5.5		22.6		
3	7.4			22.8	2.294	8.0				5.7		22.7		
4	7.4			22.5	2.477	8.0				5.9		22.7		
5	7.3			23	2.170	8.0				5.9	1.8	23.2		
6	7.4			22.7	1.681	8.0				4.9		22.7		
7	7.2			22.1	1.630	8.1			0.02	5.3		21.2		
8	7.4	140	192	22.3	1.637	8.0	1.0	0.8		5.2		21	99.3	99.6
9	7.4			22.6	1.713	8.0				5.6		21.4		
10	7.3			22.7	1.844	8.0				5.6		21.6		
11	7.4			22.2	1.775	7.9				5.0	1.3	21.6		
12	7.5			22	1.721	7.9				5.0		21.4		
13	7.6			21.6	1.651	7.9				5.2		21.1		
14	7.3			22.1	1.773	7.9			0.04	5.0		21.1		
15	7.4	140	188	22.6	1.839	7.9	1.0	0.8		4.9		21.9	99.3	99.6
16	7.4			22.9	2.011	7.9				4.8		22.4		
17	7.4			22	2.154	7.9				5.3		21.7		
18	7.4			22.9	2.239	7.9				4.6	0.67	22.5		
19	7.4			22.4	1.895	7.9				4.8		22.8		
20	7.5			23.3	1.707	8.1				4.9		23.5		
21	7.4			23.2	1.760	8.0			0.01	5.0		23.9		
22	7.4	150	212	23.2	1.715	8.0	1.0	1.1		5.5		23.9	99.3	99.5
23	7.5			23.2	1.716	8.0				5.2		24.2		
24	7.5			22.9	1.889	8.0				5.1		23.7		
25	7.4			23.3	1.781	8.0				5.3	1.7	24.1		
26	7.4			23.3	1.793	8.0				5.1		23.6		
27	7.5			22.8	1.505	8.0				5.6		23.2		
28	7.3			23.2	1.497	7.9			0.03	5.6		22.3		
29	7.3	253	278	22.6	1.552	8.0	1.1	1.1		5.7		21.5	99.6	99.6
30	7.3			21.9	1.513	8.0				5.5		21.4		
Total					54.443									
Avg		165	212	23	1.815		1.0	1.0	0.03	5.3	1.4	22.4	99.4	99.5
Min	7.2	140	188	22	1.497	7.9	1.0	0.8	0.01	4.6	0.7	21.0	99.3	99.5
Max	7.6	253	278	23	2.477	8.1	1.1	1.1	0.04	5.9	1.8	24.2	99.6	99.6

MONTHLY MONITORING					QUARTERLY MONITORING					
DATE	Oil & Grease mg/L	Selenium µg/L	SM1 Hardness mg/L	SM2 Hardness mg/L	Phosphorus mg/L	SM1 Phosphorus mg/L	T. Nitrogen mg/L	SM1 T. Nitrogen mg/L	TR. Cadmium ug/L	TR. Copper µg/L
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11	< 5.0	< 1.0	337	358						
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
Total	< 5.0	< 1.0	337	358						
Avg	< 5.0	< 1.0	337	358						
Min	< 5.0	< 1.0	337	358						
Max	< 5.0	< 1.0	337	358						

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

DATE	SLUDGE DISP. LBS. DRY WEIGHT	#1 Aeration Basin, O-Ditch, Etc.				#2 Aeration Basin, O-Ditch, Etc.				*Weather Conditions		
		MIXED LIQUOR				MIXED LIQUOR				Outside * Ambient Temp ° F	*RAIN inches	Time
		* DO mg/l	** MLSS mg/l	*Settleability		* DO mg/l	** MLSS mg/l	*Settleability				
				*30 min ml	Temp ° C			*30 min ml	Temp ° C			
1	5,740	1.6	3,080	320	22.4	2.1	3,700	340	22.4	62	0	7:30
2		1.7	3,670	330	22.7	2.2	3,190	340	22.7	59	0	7:30
3		1.9	3,130	350	22.2	2.4	3,250	330	22.2	66	0	7:30
4		1.9	3,960	340	22.9	2.4	3,700	330	22.9	71	0	7:30
5		1.9	4,250	400	23.2	2.4	3,760	300	23.2	63	0	7:30
6		1.2	3,510	380	21.6	1.8	3,740	390	21.9	53	0.2	7:30
7		5.1	4,050	370	20.6	3.9	4,020	410	20.7	52	0	7:30
8		3.8	3,250	320	20.7	2.7	3,640	370	20.9	55	0	7:30
9		3.7	3,730	440	21	3.2	3,800	350	21.3	62	0	7:30
10		2.8	4,460	530	21.3	3.6	2,180	300	21.6	60	0	7:30
11		2.3	4,080	500	20.9	2.6	3,260	340	21.1	55	0	7:30
12		3.0	4,270	440	20.9	2.3	3,800	390	21.2	58	0	7:30
13		2.7	4,580	450	20.7	2.9	3,480	380	20.9	60	0	7:30
14		1.8	4,090	450	20.9	3	3,420	380	21.1	56	0	7:30
15		1.9	4,040	500	21.8	2.5	3,270	350	21.8	61	0	7:30
16		1.7	4,490	540	22.4	2.7	2,490	300	22.4	65	0	7:30
17		2.0	4,320	520	22.1	2.9	2,670	320	22.1	67	0.25	7:30
18		1.3	5,360	600	22.6	2.4	3,140	300	22.5	65	0.75	7:30
19		1.4	4,830	520	22.5	2.6	3,470	350	22.6	65	0	7:30
20		1.1	4,370	530	23.3	2.3	3,310	370	23.3	70	0	7:30
21		2.5	4,100	560	24.2	2.3	4,280	460	24.1	71	0	7:30
22		2.5	3,960	490	24	2.3	3,780	420	23.9	70	0	7:30
23		2.5	4,240	550	23.8	3	3,400	380	23.8	68	0	7:30
24		2.6	4,370	580	23.4	3.9	2,830	320	23.4	66	0	7:30
25		1.2	4,150	550	23.7	2.8	2,290	260	23.5	66	0	7:30
26		2.4	3,440	550	23.2	2.9	2,820	280	23.2	67	0	7:30
27		1.3	4,540	590	22.7	3.6	3,090	390	22.7	66	0	7:30
28	5,709	2.8	4,270	580	21.5	2.9	3,050	410	21.7	55	0	7:30
29	5,863	3.8	3,730	540	20.9	3.4	3,940	510	21.1	57	0	7:30
30		2.9	3,880	490	20.6	3.2	3,300	500	20.7	55	0	7:30

COMMENTS

TESTS PERFORMED BY (PRINT) John Hornback	SIGNATURE 	PHONE # (573)365-0455	DATE 10/5/2017
REPORT APPROVED BY (PRINT) Gary Hutchcraft	SIGNATURE 	PHONE # (573)365-0455	DATE 10/5/2017

*Required Daily (Monday - Friday)

**Required 1/week

PERMITTEE NAME/ADDRESS

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)

NAME Lake of the Ozarks Regional WWP I
ADDRESS #3 Anderson Road
LAKE OZARK, MO 65049

MO0103241		001 A	
PERMIT NUMBER		DISCHARGE NUMBER	
MONITORING PERIOD			
YEAR	MO	DAY	TO YEAR MO DAY
2017	09	01	2017 09 30

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	*****	*****	*****	1.1	1.0	Weekly	24 Hour Composite
Stage Type: End of Pipe	REQRMT	*****	*****	*****	Weekly Average: .45	Monthly Average 30	Weekly	24 Hour Composite
BOD, 5-day, percent removal (01010)	REPORTD	*****	*****	*****	*****	99.4	Monthly	Calculated
Stage Type: End of Pipe	REQRMT	*****	*****	*****	*****	Monthly Average Minimum 85	Monthly	Calculated
Escheria coliform (E. Coli) (51040)	REPORTD	*****	*****	*****	1.8	1.4	Weekly	Grab
Stage Type: End of Pipe	REQRMT	*****	*****	*****	7 Day Geometric Mean 630	30 Day Geometric Mean 126	Weekly	Grab
Flow, in conduit or thru treatment plant (50050)	REPORTD	2.477	1.815	Mgal/d	*****	*****	Daily	Total Measured
Stage Type: End of Pipe	REQRMT	Daily Maximum Monitoring Required	Monthly Average Monitoring Required	*****	*****	*****	Daily	Total Measured
Nitrogen, ammonia total (as N) (00610)	REPORTD	*****	*****	*****	.04	.03	Weekly	Grab
Stage Type: End of Pipe	REQRMT	*****	*****	*****	Daily Maximum 6.0	Monthly Average 1.2	Weekly	Grab
Oil and grease (soxhlet extr.) tot. (00550)	REPORTD	*****	*****	*****	<5.0	<5.0	Monthly	Grab
Stage Type: End of Pipe	REQRMT	*****	*****	*****	Daily Maximum 15	Monthly Average 10	Monthly	Grab
pH (00400)	REPORTD	*****	*****	*****	7.9	8.1	Weekly	Grab
Stage Type: End of Pipe	REQRMT	*****	*****	*****	Minimum 6.5	Maximum 9.0	Weekly	Grab

GENERAL PERMIT REQUIREMENTS OR COMMENTS
(IF TRAIL-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 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 fines and imprisonment for knowing violations.

OPERATOR IN RESPONSIBLE CHARGE		7305	
Gary Hutchcraft		CERTIFICATE NUMBER	
TYPED OR PRINTED NAME		573-365-0455	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	
Gary F Hutchcraft		2017-10-05 14:59:39	
TYPED OR PRINTED NAME		SIGNATURE	
		Date	

Page 1

PERMITTEE NAME/ADDRESS

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)

NAME Lake of the Ozarks Regional WWP I
ADDRESS #3 Anderson Road
LAKE OZARK, MO 65049

MO0103241		001 A	
PERMIT NUMBER		DISCHARGE NUMBER	
MONITORING PERIOD			
YEAR	MO	DAY	TO YEAR MO DAY
2017	09	01	2017 09 30

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	Monthly	Grab
Stage Type: End of Pipe	REQRMT	*****	*****	*****	Daily Maximum 9.1	Monthly Average 4.0	Monthly	Grab
Suspended Solids, percent removal (01011)	REPORTD	*****	*****	*****	*****	99.5	Monthly	Calculated
Stage Type: End of Pipe	REQRMT	*****	*****	*****	*****	Monthly Average Minimum 85	Monthly	Calculated
Total Suspended Solids (TSS) (00530)	REPORTD	*****	*****	*****	1.1	1.0	Weekly	24 Hour Composite
Stage Type: End of Pipe	REQRMT	*****	*****	*****	Weekly Average .45	Monthly Average 30	Weekly	24 Hour Composite

GENERAL PERMIT REQUIREMENTS OR COMMENTS
(IF TRAIL-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 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 fines and imprisonment for knowing violations.

OPERATOR IN RESPONSIBLE CHARGE		7305	
Gary Hutchcraft		CERTIFICATE NUMBER	
TYPED OR PRINTED NAME		573-365-0455	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	
Gary F Hutchcraft		2017-10-05 14:59:39	
TYPED OR PRINTED NAME		SIGNATURE	
		Date	

Page 2

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
2140 W. Woodland
Springfield, MO 65807-5912
417891-4300
417891-4399 (fax)

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

MOD103241	SM2 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2017	09	01	2017	09	30

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM

Parameter	FROM	MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Hardness, total (as CaCO ₃) (00900)	REPORTD	*****		358	*****	Monthly	Grab	
Stage Type: Instream Monitoring	REQRMNT	*****		Daily Maximum Monitoring Required	*****	Monthly	Grab	
				Monthly Average Monitoring Required				

GENERAL PERMIT REQUIREMENTS OR COMMENTS
OR TREATMENT 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 managed 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
Gary F Hutchcraft	573-365-0455
TYPED OR PRINTED NAME	2017-10-05 14:59:39
SIGNATURE	Date

Page 3

[illegible]

It has sufficient and abundant sources of iron. Sources: (1) iron pyrite or C-iron. (2) earth clouds

GM 711 BP

Approved by _____ CH

1

10/12/2017

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

2017						
	April	May	June	July	August	September
L.O. Total MG	6.723	7.979	6.618	8.092	8.469	6.866
L.O. Peak MG	1.583	0.811	0.290	0.342	0.646	0.347
Avg. Daily MG	0.224	0.257	0.221	0.261	0.273	0.229
% Diff.	607%	216%	31%	31%	137%	52%
Rainfall Inches	9.8	8.1	2.9	5.2	12.4	1.5

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

2017

	April	May	June	July	August	September
O.B. Total MG	44.665	51.527	50.926	59.347	57.736	47.096
O.B. Peak MG	5.967	3.592	2.058	2.284	4.059	2.091
Avg. Daily MG	1.489	1.662	1.698	1.914	1.862	1.570
% Diff.	301%	116%	21%	19%	118%	33%
Rainfall Inches	9.8	8.1	2.9	5.2	12.4	1.5



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

Bidder	Budget	Equipment	Price each & Total
John Henry Foster	\$8,000.00	Parker Origa Cylinder OSP	\$678.35 ea.
		Misc. Compressor parts	\$417.00
		Sensor Brushes	No Bid
		Wiper Holders/Ring	No Bid
			Total - \$1,095.35
Xylem Inc. (Wedeco)	"	Parker Origa Cylinder OSP	\$1,550.00 ea.
		Misc. Compressor Parts	No Bid
		Sensor brushes	\$20.00 ea. x 4 = \$80.00
		Wiper Holders/Rings	\$19.00 ea. x 144 = \$2,736.00
			Total - \$80.00
UV Doctor	"	Parker Origa Cylinder OSP	No Bid
		Misc. Compressor parts	No Bid
		Sensor brushes	\$40.00 ea. x 4 = \$160.00
		Wiper Holders/Rings	\$15.00 ea. x 144 = \$2,160.00
			Total - \$2,160.00
Total from JHF, Xylem & UV Doctor			\$3,335.35

Freight is not included

Bids for 3 - Replacement Fiberglass Doors Installed

Bidder	Budget	Door	Price Installed
Merchant Const.	\$2,000.00	3 - 3.0 x 7.0 Unknown	No Bid
Jeffries Const.	"	3 - 3.0 x 7.0 Unknown	No Bid
BCM Commercial	"	3 - 3.0 x 7.0 Tiger Brand	\$5,358.00
Cooper Site Works	"	3 - 3.0 x 7.0 Masonite Brand	\$2,875.00
Scott's Handyman Ser.	"	3 - 3.0 x 7.0 Masonite Brand	\$1,967.46

All doors are prepainted to our spec color

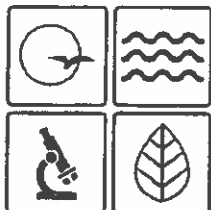
All bidding contractors are following the Miller Co. Prevailing Wage Order #24

Bids for Refurbishing Pipe Gallery in RAS Basement & Valve Pits

Bidder	Budget	Project Scope	Price
Zeiset Painting	\$7,000.00	Pressure Wash/Clean & Paint Piping/Interior surfaces to Sherwin Williams Specs	No Bid
Lake Painting	"		No Bid
Roberts Painting	"		No Bid
Forever New Painting	"		No Bid
A-1 Painting Ser.	"		\$8,160.00
Scott's Handyman Ser.	"		\$6,675.00

All paint contractors came by the plant and looked at project, but only received 2 bids back.
All bidding contractors are following the Miller Co. Prevailing Wage Order #24

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Missouri Department of dnr.mo.gov

NATURAL RESOURCES

Eric R. Greitens, Governor

Carol S. Comer, Director

September 20, 2017

Lake Ozark and Osage Beach Joint Sewer Board
P.O. Box 370
Lake Ozark, MO 65049

UNSATISFACTORY FINDINGS NO RESPONSE REQUIRED

Dear Permittee:

Staff from the Missouri Department of Natural Resources conducted an inspection on August 29, 2017 of Lake of the Ozarks Regional Wastewater Treatment Plant 1 (WWTP) located at Wood River Road in Miller County. The facility operates under the authority of Missouri State Operating Permit MO0103241.

Compliance with Missouri Clean Water Law was evaluated. The enclosed report is being issued with Unsatisfactory Findings for the violations identified.

Please refer to the enclosed report for details on findings and required actions. A written response is not required at this time because you have already provided a sufficient response to the unsatisfactory findings. Your actions show that you recognize our mutual goal in providing a quality of life for Missouri's citizens through environmental compliance. The Department appreciates your voluntary efforts to comply with the laws of Missouri and your continued efforts to work with us to improve protection of Missouri citizens and our natural resources.

If you have any questions or would like to schedule a time to meet with Department staff to discuss compliance requirements, please contact Mr. Sieu T. Dang at 417-891-4300 or in writing at Southwest Regional Office, 2040 W. Woodland, Springfield, Missouri 65807-5912.

Sincerely,
SOUTHWEST REGIONAL OFFICE

Kevin Hess, Chief
Water Pollution Section

KH/sdb

Enclosures

c: Mr. Gary Hutchcraft, Local Manager, Alliance Water Resources, Inc.

131.wpcp.LakeOfTheOzarksRegional1.mo0103241.x.2017.09.20.fy18.ins.x.std



Recycled paper

**Missouri Department of Natural Resources
Southwest Regional Office/Water Pollution Control Branch
Report of Inspection
Lake of the Ozarks Regional WWTP 1
Miller County, Missouri
MO0103241
September 20, 2017**

Introduction

On August 29, 2017, a routine compliance inspection, of the Lake of the Ozarks Regional Wastewater Treatment Plant (WWTP) 1 in Miller County, Missouri was conducted by the Missouri Department of Natural Resources (Department). The purpose of this inspection was to determine compliance with Missouri State Operating Permit (MSOP) MO0103241, the Missouri Clean Water Commission Regulations, and Missouri Clean Water Law. This report presents the findings and observations made during the compliance inspection. Authority for this inspection is provided in Missouri Clean Water Law 644.026.1(21), RSMo. The following participants were present during the inspection:

Lake Ozark and Osage Beach Joint Sewer Board
Mr. Gary Hutchcraft, Local Manager, Alliance Water Resources, Inc., 417-365-0455

Missouri Department of Natural Resources
Mr. Sieu T. Dang, Environmental Engineer, 417-891-4300

Facility Description and History

The treatment facility is composed of automatic bar screens, grit removal, two oxidation ditches, three final clarifiers, ultraviolet lights disinfection, cascade aeration, and two aerobic sludge digesters. The system has a design flow capacity of 3.0 million gallons per day. Sludge is land applied. Discharge from this facility flows into a tributary of Osage River classified as a gaining setting. The facility has a design population equivalent of 42,860. The UTM 83 coordinates for this facility's outfall are E 535367, N 4226296. The MSOP MO0103241 was last issued on March 1, 2017, and expires on December 31, 2020.

Our records indicate that the previous inspection of this facility was conducted by the Department on October 8, 2014. Noncompliance issues noted in the inspection report dated December 31, 2014 included laboratory procedures, Standard Condition Part III, and annual inflow and infiltration report deficiencies. The facility provided a response to the inspection report on January 26, 2015. The response adequately addressed the issues.

During the office portion of the inspection I reviewed the facility's Form S Annual Sludge Reports and Discharge Monitoring Reports (DMR). The previous year's Annual Sludge Report was received by the Department on January 25, 2017, prior to the January 28th deadline. The DMRs submitted to this office from August 2015 to July 2017 reflect compliance with MSOP limits and reporting requirements.

Discussion of Inspection and Observations

The inspection was conducted during normal business hours. Prior notification of the inspection was provided to ensure timely access to the site. When I arrived at the facility, I met with Mr. Gary Hutchcraft and outlined the purpose and scope of the inspection. Mr. Hutchcraft granted permission to access the site and accompanied me throughout the tour of the facility.

This inspection included touring the WWTP and reviewing onsite records.

The WWTP as observed appeared to match with the facility description in the permit. All equipment appeared to be in good conditions and working order. There were no operational issues noted during the tour. Mr. Hutchcraft reported there were algae at the clarifiers and they frequently cleaned them off using water hose. He indicated the broken off algae were captured at a turtle guard installed at the UV lights disinfection structure. I advised him to ensure effluent limits for Total Suspended Solids (TSS) must be met under all conditions. The upstream and downstream of the receiving stream appeared to be clear and no visual impacts were noted.

We discussed second source of electrical power for the WWTP. Mr. Hutchcraft said the WWTP only has one source of electrical power from Ameren UE and that the WWTP had not had any power outage since he took over the operation. However, he said the Lake Ozark and Osage Beach Joint Sewer Board was considering a backup generator for this WWTP.

Laboratory procedures and onsite operational records were also reviewed. All of the records including quality assurance and quality control (QA/QC) log books, DMRs, operational tests, duplicate testing results, and calibration records were neat and well-kept. pH and D.O meters were calibrated and checked against known standards as required. Thermometer's certification was up-to-date. I noted the scale calibration schedule was due February 2017. Mr. Hutchcraft indicated that the scale was checked against standard weights regularly for accuracy and said he will have the scale calibrated as soon as possible. Operational and effluent tests appeared to be in accordance with 10 CSR 20.9 and approved standard methods.

We discussed ammonia testing method and manual distillation requirement of ammonia samples as noted in 40 CFR Part 136. Mr. Hutchcraft provided a copy of a letter from the U.S. Environmental Protection Agency (EPA) dated February 4, 2011 and his study of ammonia sample results from April 2011 to May 2012 (both enclosed) showing that the preliminary distillation step is not necessary.

Geometric means for E. coli sample results and reporting of non-detects were discussed. Mr. Hutchcraft was advised to review Special Condition 8 of the permit regarding reporting of non-detect results and calculating monthly averages for non-detect results.

At the time of the inspection, the facility did not develop a Stormwater Pollution Prevention Plan (SWPPP) as required in Special Condition 23 of the MSOP. Mr. Hutchcraft admitted the oversight and stated the SWPPP will be developed prior to the date of this inspection report.

Mr. Hutchcraft reported there were three operators at this WWTP, Mr. John Hornback, Mr. Ben Porter, and himself. I noted that Mr. Ben Porter was not a certified operator and advised Mr. Hutchcraft the requirement of a minimum D operator to operate the WWTP. Mr. Hutchcraft said Mr. Porter was recently hired and in training and most of the time was under supervision of himself and Mr. Hornback. He said they would ensure Mr. Porter obtain the certification within a year.

Annual sludge reports for the last two years were also reviewed and no issues were noted. The reports appeared to include sufficient information and the reported sampling results were in compliance with Standard Conditions Part III of the MSOP. Total solids sample was tested one per day during land application periods.

The permittee is under the authority of Lake Ozark and Osage Beach Joint Sewer Board (Board). The Board does not maintain or fund the collection system. Lake Ozark and Osage Beach Cities fund and maintain their own collection systems.

The inspection ended after all of the findings were reviewed with Mr. Hutchcraft.

On August 30, 2017, Mr. Hutchcraft emailed me the Scale Test Report for the scale recalibration.

On September 1, 2017, Mr. Hutchcraft emailed me the required SWPPP for this facility. The SWPPP appeared to be prepared in accordance with the EPA's guidance noted in Special Condition 23 of the MSOP.

On September 1, 2017, Mr. Hutchcraft notified the Department that Mr. Ben Porter had registered in the 12 day Wastewater Certification class (ID#1701665) in Clinton, Missouri starting on September 12 and ending on October 18.

Sampling and Monitoring

The Department's Environmental Service Program collected the effluent wastewater samples at this facility on May 25, 2017. The enclosed sample results reflect compliance with the effluent limitations.

Compliance Determination

The facility was found to not be in compliance with the Missouri Clean Water Law, its implementing regulations, and MSOP MO0103241, based upon observations made during the inspection.

Unsatisfactory Findings and Required Actions

1. The Board failed to develop and implement a Stormwater Pollution Prevention Plan (SWPPP) within 180 days following the permit issuance as required in Special Condition 23 of the MSOP. This constitutes a violation of MCWC Regulation 10 CSR 20-7.015(9)(A) and MCWL Section 644.076.1 RSMo.

REQUIRED ACTION: On September 1, 2017, the Department received a SWPPP for the WWTP. The Board must ensure the SWPPP is properly implemented and records kept as required in Special Condition 23.

2. Not all operators at the WWTP possess a minimum level D certification. All operators of wastewater treatment facilities with population equivalents greater than two hundred (200) or with fifty (50) or more service connections that are owned or operated by federal agencies, state agencies, municipalities, public sewer districts, counties, public waters supply districts, or private sewer companies regulated by the Public Service Commission must have, as a minimum, a level D certificate of competency. Failure to provide operators certified at the proper level is a violation of Missouri Clean Water Law Section 644.076.1, RSMo and Missouri Clean Water Commission Regulation 10 CSR 20-9.020(2)(B) and (D).

A competent, well-trained, effective operator is essential to the proper operation and maintenance of any wastewater treatment facility. While certification at the proper level does not ensure that the operator will have all of these qualities, it is a step in the right direction.

REQUIRED ACTION: On September 1, 2017, the Department received a notification from Mr. Hutchcraft reporting that the non-certified operator has registered for a 12 day operator training class starting September 12 and ending October 18, 2017. Please notify the Department when the operator receives a certification.

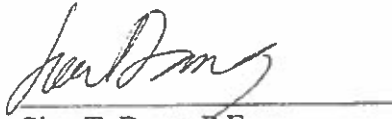
Recommendations

1. Consider installing a backup power system at this facility to ensure continued treatment during a power outage.
2. Review the Special Condition 8 of the MSOP to ensure non-detecting and monthly average calculation requirements are being met.
3. Continue with the QA/QC program and ensure applicable laboratory equipment is calibrated and certified.

Report of Inspection
Lake of the Ozarks Regional WWTP 1
September 20, 2017
Page 5

Signature

SUBMITTED BY:

A handwritten signature in dark ink, appearing to read 'Sieu T. Dang', is written over a horizontal line.

Sieu T. Dang, P.E.
Environmental Engineer
Southwest Regional Office

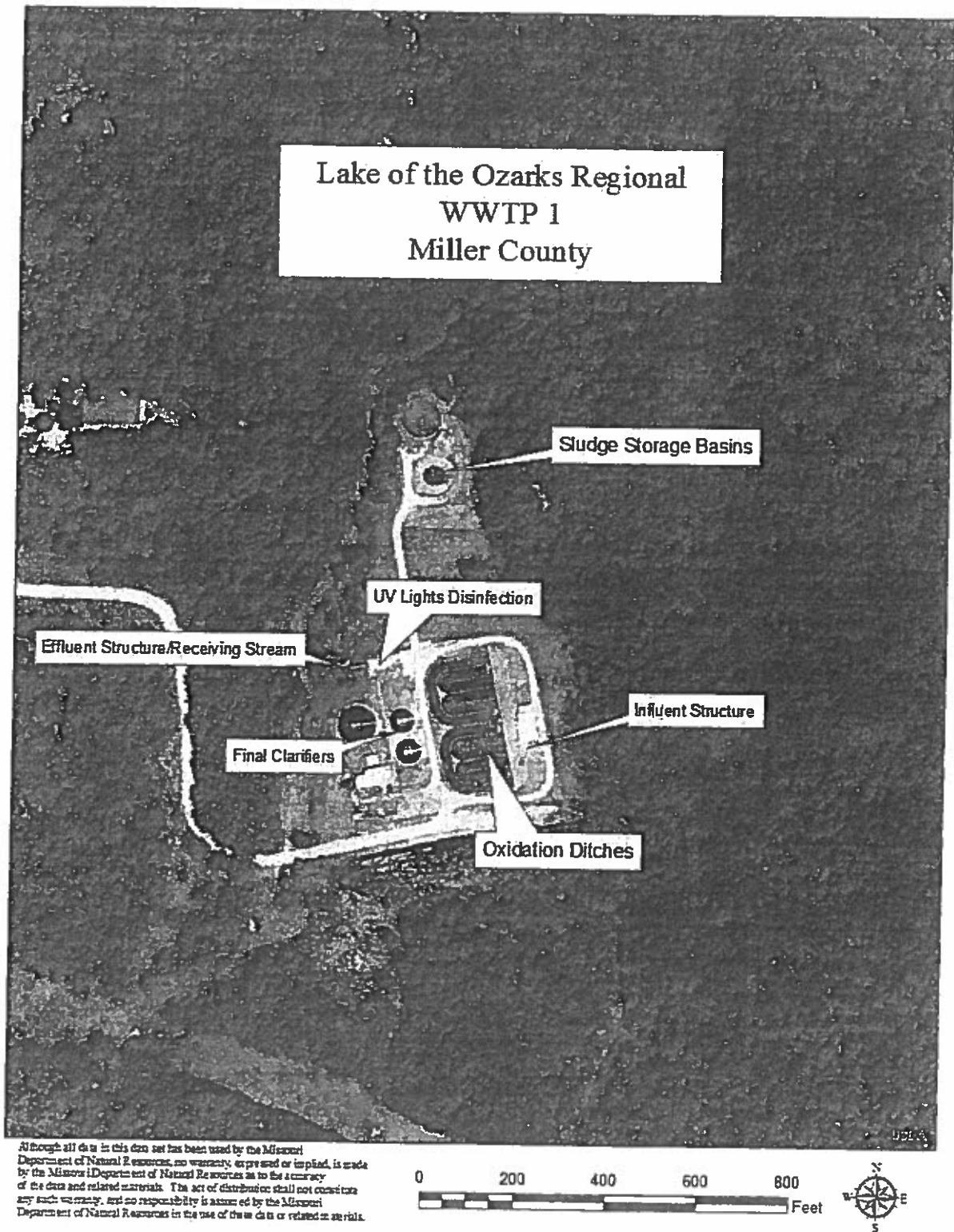
Attachments

Attachment # 1 – Aerial Map

Attachment # 2 – Photographs (1 through 12)

Attachment # 3 – Letter from EPA dated February 4, 2011

Attachment # 4 – Ammonia Sample Results Study from April 2011 to May 2012



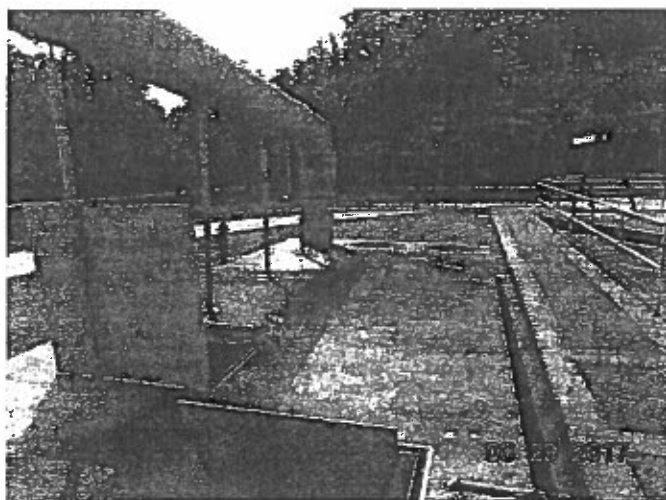
Sludge handling checklist for wastewater treatment facilities

Facility Name: Lake of the Ozarks Regional WWTP 1	MSOP #: mo0103241		
Issue to be addressed	Options		Not Inspected
What method (land application, incineration, landfill, etc) is used for sludge management?	Land application		☐
	Date		
How often is sludge removed from the facility?	As needed		☐
When was the last time sludge was removed?	August 2017		☐
	Yes	No	Not Inspected
Has the Form S annual report been submitted?	☒	☐	☐
Have the applicable additional sections been submitted? (If not, please describe deficiencies below in the comments field)	☒	☐	☐
Is the form filled out correctly? (If not, please describe deficiencies below in the comments field)	☒	☐	☐
Is the monitoring frequency for metals, pathogens and vectors (WQ 423) being met?	☒	☐	☐
Are the requirements for pathogens and vector attraction (WQ 424) being met?	☒	☐	☐
Are land applied biosolids below the ceiling concentration for metals (WQ 425)?	☒	☐	☐
Are the nitrogen, soil pH and soil phosphorus limitations (WQ426) being met?	☒	☐	☐
Other Comments:			



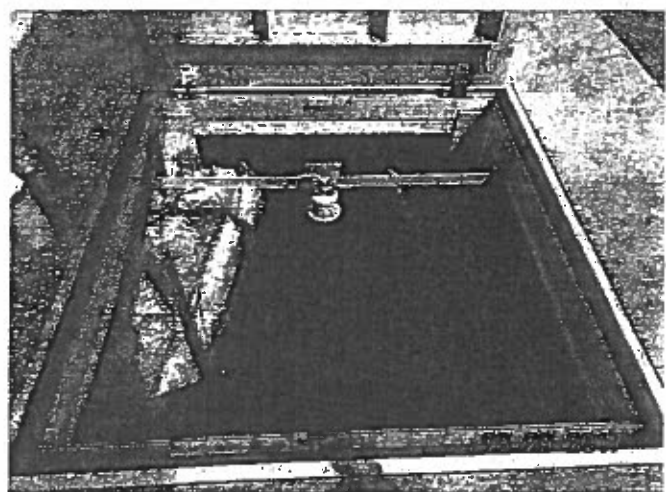
MISSOURI DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY
PHOTOGRAPH ADDENDUM

REGIONAL OFFICE
Southwest



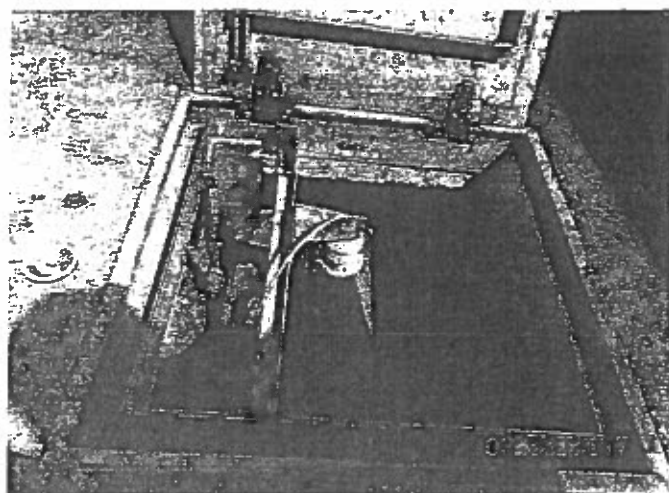
PHOTOGRAPH# 1

Taken by: Sieu T. Dang
Entity: Lake Ozark & Osage Beach Joint Sewer Board
Permit Number: MO0103241
Location: Lake of the Ozarks Regional WWTP 1
Description: Influent structure
Date Taken: August 29, 2017
Program: WPP



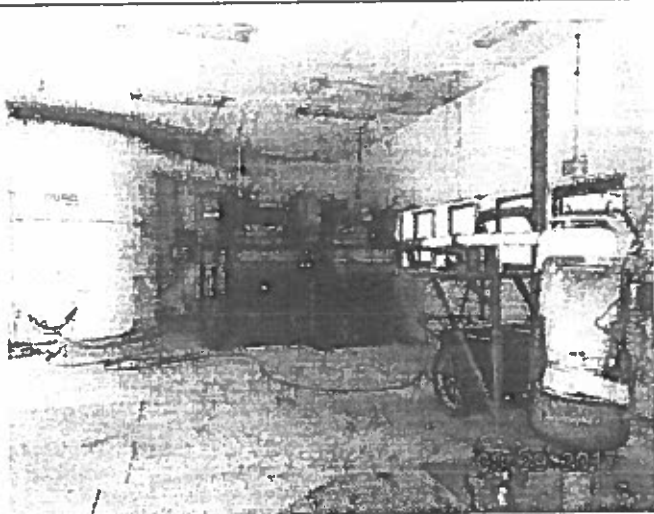
PHOTOGRAPH# 2

Taken by: Sieu T. Dang
Entity: Lake Ozark & Osage Beach Joint Sewer Board
Permit Number: MO0103241
Location: Lake of the Ozarks Regional WWTP 1
Description: Osage Beach's influent flow meter
Date Taken: August 29, 2017
Program: WPP



PHOTOGRAPH# 3

Taken by: Sieu T. Dang
Entity: Lake Ozark & Osage Beach Joint Sewer Board
Permit Number: MO0103241
Location: Lake of the Ozarks Regional WWTP 1
Description: Lake Ozark's influent flow meter
Date Taken: August 29, 2017
Program: WPP



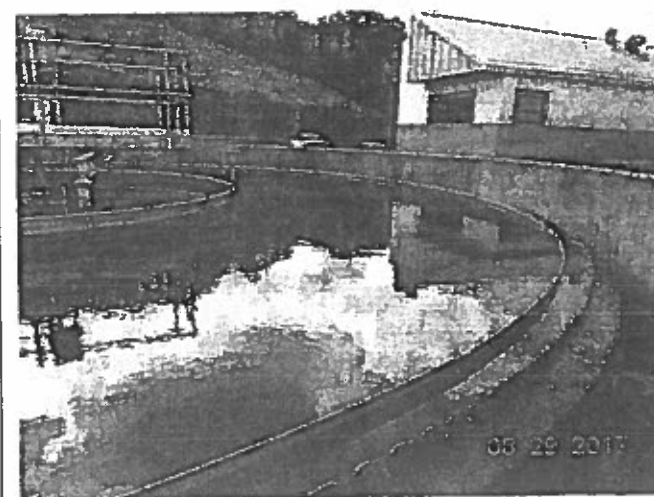
PHOTOGRAPH# 4

Taken by: Sieu T. Dang
Entity: Lake Ozark & Osage Beach Joint Sewer Board
Permit Number: MO0103241
Location: Lake of the Ozarks Regional WWTP 1
Description: Bar screens and grit removal
Date Taken: August 29, 2017
Program: WPP



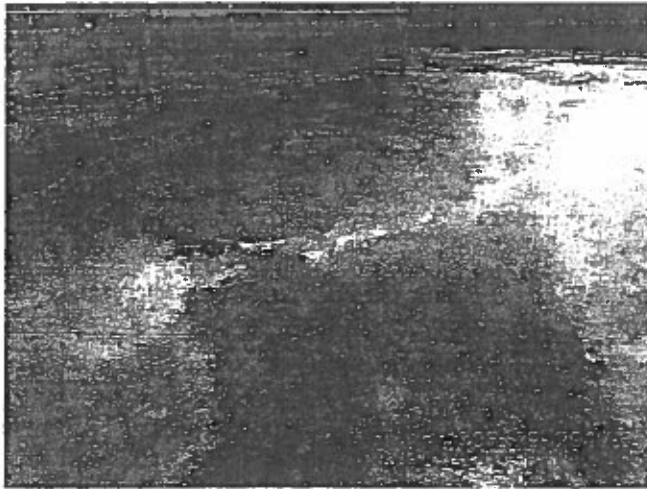
PHOTOGRAPH# 5

Taken by: Sieu T. Dang
Entity: Lake Ozark & Osage Beach Joint Sewer Board
Permit Number: MO0103241
Location: Lake of the Ozarks Regional WWTP 1
Description: Oxidation ditches
Date Taken: August 29, 2017
Program: WPP



PHOTOGRAPH# 6

Taken by: Sieu T. Dang
Entity: Lake Ozark & Osage Beach Joint Sewer Board
Permit Number: MO0103241
Location: Lake of the Ozarks Regional WWTP 1
Description: Final clarifier
Date Taken: August 29, 2017
Program: WPP



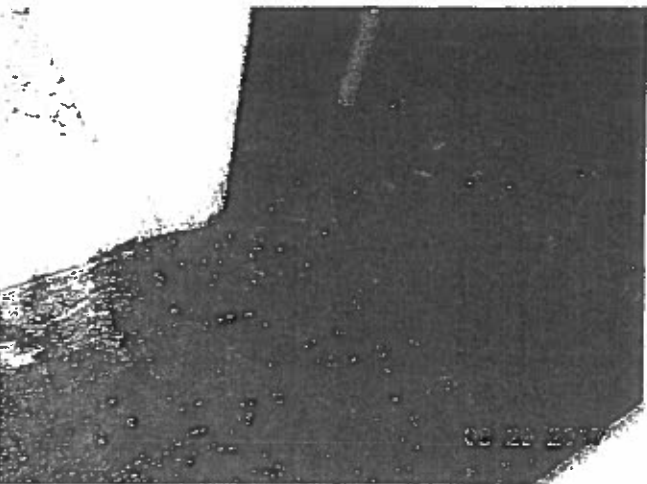
PHOTOGRAPH# 7

Taken by: Sieu T. Dang
Entity: Lake Ozark & Osage Beach Joint Sewer Board
Permit Number: MO0103241
Location: Lake of the Ozarks Regional WWTP 1
Description: Sludge holding tank
Date Taken: August 29, 2017
Program: WPP



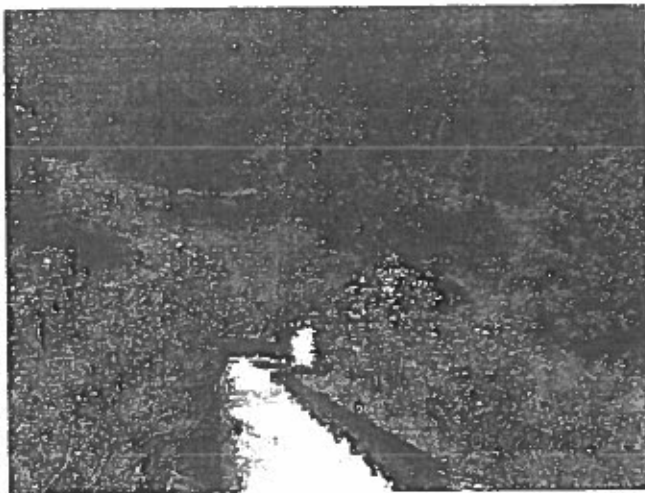
PHOTOGRAPH# 8

Taken by: Sieu T. Dang
Entity: Lake Ozark & Osage Beach Joint Sewer Board
Permit Number: MO0103241
Location: Lake of the Ozarks Regional WWTP 1
Description: UV lights disinfection
Date Taken: August 29, 2017
Program: WPP



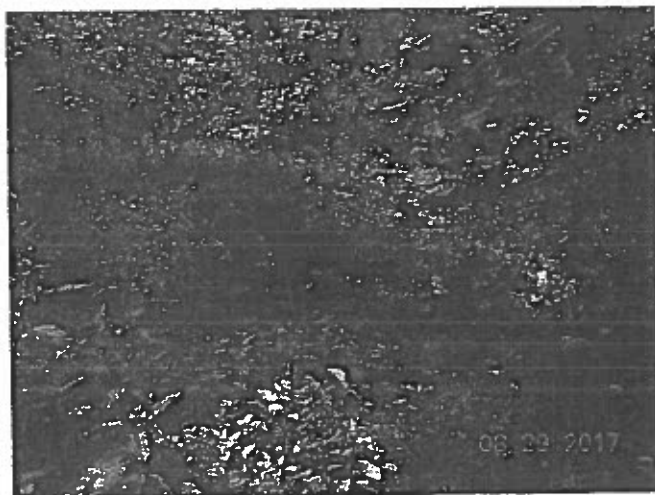
PHOTOGRAPH# 9

Taken by: Sieu T. Dang
Entity: Lake Ozark & Osage Beach Joint Sewer Board
Permit Number: MO0103241
Location: Lake of the Ozarks Regional WWTP 1
Description: Effluent from UV lights disinfection
Date Taken: August 29, 2017
Program: WPP



PHOTOGRAPH# 10

Taken by: Sieu T. Dang
Entity: Lake Ozark & Osage Beach Joint Sewer Board
Permit Number: MO0103241
Location: Lake of the Ozarks Regional WWTP 1
Description: Cascade aeration structure
Date Taken: August 29, 2017
Program: WPP



PHOTOGRAPH# 11

Taken by: Sieu T. Dang
Entity: Lake Ozark & Osage Beach Joint Sewer Board
Permit Number: MO0103241
Location: Lake of the Ozarks Regional WWTP 1
Description: Downstream of the Receiving stream at SM2, UTM (535393, 4226437)
Date Taken: August 29, 2017
Program: WPP



PHOTOGRAPH# 12

Taken by: Sieu T. Dang
Entity: Lake Ozark & Osage Beach Joint Sewer Board
Permit Number: MO0103241
Location: Lake of the Ozarks Regional WWTP 1
Description: Upstream of the Receiving Stream at SM1, UTM (535310, 4226177)
Date Taken: August 29, 2017
Program: WPP

ESTIMATED FUND BALANCES

OPERATING FUND

BALANCE 1/1/17	289,117.00
TOTAL ESTIMATED REVENUE	584,924.04
TOTAL ESTIMATED EXPENSES/TRANSFERS	<u>(597,082.60)</u>
BALANCE 12/31/17	276,958.44
TOTAL ESTIMATED REVENUE	585,000.00
TOTAL ESTIMATED EXPENSES/TRANSFERS	<u>(741,270.84)</u>
BALANCE 12/31/18	<u><u>120,687.60</u></u>

EQUIPMENT REPLACEMENT FUND

BALANCE 1/1/17	487,257.00
TOTAL ESTIMATED REVENUE/TRANSFERS	40,240.71
TOTAL ESTIMATED EXPENSES	<u>(12,908.40)</u>
BALANCE 12/31/17	514,589.31
TOTAL ESTIMATED REVENUE/TRANSFERS	43,906.04
TOTAL ESTIMATED EXPENSES	<u>(34,500.00)</u>
BALANCE 12/31/18	<u><u>523,995.35</u></u>

LAKE OZARK - OSAGE BEACH JOINT SEWER TREATMENT PLANT
2018 BUDGET WORKSHEET
REVENUE

Operating Fund	2015 Actual	2016 Actual	2017 Budget	2017 9/30/2017	2017 Oct/Nov/Dec	2017 Total Est.	2018 Proposed	2018 Proposed
3020 Osage Beach	477,172.03	475,802.57	473,000.00	358,753.68	119,746.32	478,500.00	478,500.00	
3010 Lake Ozark	72,827.98	74,197.42	77,000.00	53,746.31	17,753.69	71,500.00	71,500.00	
3100 Interest	54.79	368.52	200.00	614.04	150.00	764.04	500.00	
3060 Waste Haulers' Fee	32,400.00	33,460.00	35,000.00	28,160.00	6,000.00	34,160.00	34,500.00	
Total Operating Fund	582,454.80	583,828.51	585,200.00	441,274.03	143,650.01	584,924.04	585,000.00	
Equipment Replace.								
Transfers-Operating	41,606.04	41,606.04	41,606.04	31,203.17	6,934.34	38,137.51	41,606.04	
Interest Revenue	2,188.83	2,847.67	1,500.00	1,103.20	1,000.00	2,103.20	2,300.00	
Total E.R. Revenue	43,794.87	44,453.71	43,106.04	32,306.37	7,934.34	40,240.71	43,906.04	

LAKE OZARK - OSAGE BEACH JOINT SEWER TREATMENT PLANT
2018 BUDGET WORKSHEET
EXPENDITURES

	2015 Actual	2016 Actual	2017 Budget	2017 9/30/2017	2017 Oct/Nov/Dec	2017 Total Est.	2018 Proposed	2018 Proposed
4000 Equip. Replace Fund	41,606.04	41,606.04	41,604.00	31,203.17	10,401.00	41,604.17	41,604.00	
4020 Equip & Bldg. Repair/Main.	33,878.90	18,735.50	28,000.00	119,070.13	14,832.51	133,902.64	122,000.00	*
4140 Insurance	16,306.00	16,977.00	17,500.00	17,144.00	-	17,144.00	17,500.00	3% +
4150 Vehicle Repair/Main.	1,508.78	951.93	8,000.00	6,452.94	4,700.00	11,152.94	3,000.00	***
4160 Haulers Fees to Contractor	8,000.00	8,000.00	8,000.00	8,000.00	-	8,000.00	8,000.00	
4170 Contract Management	296,233.08	303,638.88	312,750.00	233,422.38	77,807.46	311,229.84	320,566.84	
4175 Electrc	76,751.19	72,637.17	77,000.00	55,402.73	15,246.28	70,649.01	75,000.00	3% +
4200 Audit	2,000.00	2,168.50	2,200.00	2,200.00	-	2,200.00	2,300.00	
4220 Professional Services	2,369.99	9,207.94	0.00	1,200.00	-	1,200.00	1,200.00	
4240 Equipment Purch-New Generator	0.00	0.00	150,000.00	-	-	-	-	
Total Operating Fund	478,653.98	473,912.96	645,054.00	474,095.35	122,987.25	597,082.60	741,270.84	
E/R Expenses per Alliance Disinfectin System	1,869.72	7,980.42	26,500.00	6,539.71	6,368.69	12,908.40	34,500.00	**
Total E.R. Fund	1,869.72	7,980.42	26,500.00	6,539.71	6,368.69	12,908.40	34,500.00	
TOTAL EXPENSES	480,523.70	481,893.38	671,554.00	480,635.06	129,355.94	609,991.00	775,770.84	
**Equipment & Replacement								
Replace Doors for elec panel	2,000.00	Tier 1					500.00	Tier 1
Replace ducking skimmer arm :	9,000.00	Tier 1					1,500.00	Tier 1
Replace ducking skimmer arm :	5,000.00	Tier 1					8,000.00	Tier 1
Replace wooden doors	2,000.00	Tier 1					8,000.00	Tier 1
Replace LED parking lot light	9,000.00	Tier 1					2,000.00	Tier 1
Replace impellers for RAS pum	7,500.00	Tier 1					7,000.00	Tier 1
34,500.00							95,000.00	Tier 1
***Vehicle Repair/Maint							122,000.00	
Vehicle Maintenance	3,000.00	Tier 1						
3,000.00								

CAPITAL IMPROVEMENT ITEM DESCRIPTIONS
For Consideration
BUDGET YEAR 2018

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	New
5. Replacement ducking skimmer arm actuator for Clarifier #1	(estimated)	\$9,000	New
6. Replacement LED parking lot/area lighting	(estimated)	\$8,000	New
7. Replacement impellers for RAS pumps, a couple per year	(estimated)	\$7,500	New - Carryover
8. Replacement doors for electrical panel in RAS building	(estimated)	\$2,000	New - Carryover
9. Rebuild Ducking Skimmer Arm & Arm Supports on Clarifier #2	(estimated)	\$5,000	if not purchased in 2017 New - Carryover
10. Expanded Effluent Testing for Permit Renewal for next renewal	(estimated)	\$1,500	New
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. Painting of RAS room/pipe gallery & valve pits at lift stations	(estimated)	\$7,000	New - Carryover
Estimated Tier 1 Total		\$158,500	if not complete in 2017

TIER 2

1. 350 kw Back-up diesel generator & 1000 amp transfer switch New	(estimated)	\$200,000	New - Carryover
Installed	Used (estimated)	\$100,000	
2. Take #2 Aeration Basin down, removal of grit by Contractor and repair valves and required lab testing on grit.	(estimated)	\$100,000	New
		\$190,000 to \$300,000	

Estimated Tier 2 Total

Informational TIER 3

1. New 4 wheel drive pickup w/ snow plow	(estimated)	\$35,000	New - Carryover
2. 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		\$200,000 to \$215,000	