

**OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
June 21, 2016 @ 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, Open
Public Works Director, Osage Beach, Nick Edelman
Public Works Director, Lake Ozark, Matt Michalik
Resident Member, Mr. Gary Hamner

3. MINUTES

Regular Meeting; May 17, 2016

PAGE NUMBERS

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4. REPORTS

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5. OLD BUSINESS

A. Magruder litigation

6. NEW BUSINESS:

A. Approve Issuing New Certificate of Deposit(s)

7. ADDITIONAL DISCUSSION ITEMS

8. ADJOURNMENT

**THE NEXT MEETING WILL BE JULY 19, 2016, 4:00 PM @ LAKE OZARK
CITY HALL**

LAKE OZARK-OSAGE BEACH
JOINT SEWER BOARD
Meeting Minutes-May 17, 2016

CALL TO ORDER:

Mayor Johnnie Franzeskos called the meeting to order at 4:00pm on Tuesday, May 16, 2016 at Lake Ozark City Hall.

ROLL CALL:

Mayor, City of Lake Ozark, Johnnie Franzeskos-Present
Mayor, Osage Beach, John Olivarri-Present
City Administrator, Osage Beach-Jenna Woods-Present
City Administrator, City of Lake Ozark-Dave Van Dee-Present
Alderman, Lake Ozark-Gerry Murawski-Present
Public Works Director, Osage Beach, Nick Edelman-Present
Public Works Director, City of Lake Ozark-Matt Michalik-Present
Resident Member, Mr. Gary Hamner-Present

MINUTES:

Gary Hamner made a motion to approve the meeting minutes of April 19, 2016, seconded by Alderman Murawski. Motion passed unanimously.

REPORTS:

Matt Michalik made a motion to approve the Bills List, seconded by Gary Hamner, motion passed unanimously.

Mayor Olivarri noted corrections to be made as to the dates on the Expenditure/Budget Analysis, Karri Bell acknowledge the corrections to be made to the dates. Under Maintenance and Repair, there was discussion to remove the \$5,000 amount for the Window Unit Air-Conditioner.

Alliance Report of Operations report noted the average daily incoming flow for April was 1.343 mgd. 5.3 inches of precipitation measured at the WWTP in April.

The plants discharge had a monthly average BOD of 1.9mg/l and TSS of 1.3mg/l.

The MLSS average for both aeration basins was 4,128 mg/l in April. The total dry weight sludge inventory for April totaled 286,515 pounds. There were 86 tanker loads or 318,200 gallons of biosolids land applied in April. In addition 6 tanker loads or 15,000 gallons of septage were received.

Motion was made by Mayor Franzeskis to approve the Flow Chart, seconded by Matt Michalik, motion passed unanimously.

OLD BUSINESS:

No updates on the Magruder litigation.

NEW BUSINESS:

Update Corporate Resolutions and Signature Cards. Motion was made by City Administrator Van Dee to accept updating the Resolutions and Signature Cards, seconded by Gary Hamner. Motion passed unanimously. Mayor Franzeskis announced to the Commission the Thank You card received from St. Elizabeth Bank.

ADDITIONAL DISCUSSION ITEMS:

Osage Beach Treasurer, Karri Bell noted that the auditors would be at Osage Beach on the 27th of May. Additionally, that she and the City of Lake Ozark, City Clerk are working together to provide the requested documentation.

ADJOURNMENT:

At 4:13pm Osage Beach Mayor John Olivari made a motion to adjourn, seconded by Gary Hamner, motioned passed unanimously.

Mayor, Johnnie Franzeskis

City Clerk, Kimberly Baker

JOINT SEWER BOARD
BILL LIST
JUNE 21, 2016

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ 8,445.86
OPERATING FUND BILLS TO BE PAID:	\$ 30,827.91
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ -
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$ -
TOTAL	\$ 39,273.77

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:	Amount:
4185	3524	Ameren MO	April Service	\$ 8,445.86
				\$ -
				\$ -
			TOTAL	\$ 8,445.86

OPERATING FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4000	3526	Equipment Replacement Fund	Payment into ER Fund	\$ 3,467.17
4170	3526	Alliance Water Resources, Inc.	Management Fee	\$ 25,303.24
4160	3527	Alliance Water Resources, Inc.	Hauled Wasted	\$ 2,000.00
4150	3528	Alliance Water Resources, Inc.	50% Reimb. Vehicle	\$ 57.50
				\$ -
				\$ -
				\$ -
			TOTAL	\$ 30,827.91

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	\$ -



AmerenMissouri.com
1.877.426.3738
PO Box 790362 St. Louis, MO 63179-0362
for correspondence only

FOCUSED ENERGY. For life.

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

AMOUNT DUE \$8,381.15

Due Date 06/21/2016

Delinquent After 06/30/2016

Amount After Delinquent Date \$8,506.87

Previous Statement \$4,876.56

Total Payments \$4,876.56

Payment Received, Thank You.

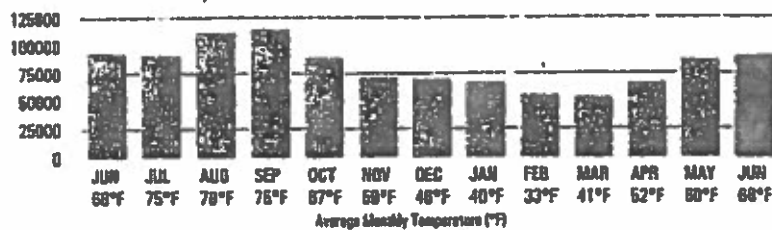
Current Detail for Statement 06/09/2016

Total Electric Charges \$8,381.15

Total Amount Due \$8,381.15

Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using 5.7% less than last year.

2015 443,846 kWh

2016 418,400 kWh

Usage from Jan-Jun for 2015 & 2016

13073 00094 2206764 000168 000335 00010002

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* See next page for service details.

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Amount Due	Due Date:
\$8,381.15	June 21, 2016
Amount After Delinquent Date 06/30/2016	Account Number
\$8,506.87	4580005832
Amount Enclosed \$	

>000098 2206764 0001 092139 102

ALLIANCE WATER RESOURCES INC
PO BOX 1885
LAKE OZARK, MO 65049-1885

AMEREN MISSOURI
PO BOX 86068
CHICAGO IL 60680-1068

80600000 0045800058302 000008381150 000008381150



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 1.877.426.3738
 PO Box 790352 St. Louis, MO 63179-0352
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FOCUSED ENERGY. For life.

Electric Service Details

Service from 05/06/2016 - 06/07/2016 (30 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
11073321	05/06 - 06/07	30	Total kWh	Actual	34035.0000	34371.0000	336.0000	180.0000	90240.0000
11073321	05/06 - 06/07	30	Peak kW	Actual	185.4000	185.4000	0.0000	180.0000	185.4000

Usage Summary

Total kWh	90240.0000	Peak kW	185.4000
Billing Demand	185.4000	Total Billing Demand	185.4000

Rate JM Large General Service

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Demand Charge	185.40	kW	@ \$ 4.83000000	\$895.48
Energy Charge/Hours Used	27,810.00	kWh	@ \$ 0.10340000	\$2,875.55
Energy Charge/Hours Used	37,080.00	kWh	@ \$ 0.07780000	\$2,884.82
Energy Charge/Hours Used	25,350.00	kWh	@ \$ 0.05230000	\$1,325.81
Customer Charge				\$82.88
Fuel Adjustment Charge	90,240.00	kWh	@ \$ 0.00002000	\$1.80
Energy Efficiency Program Charge	90,240.00	kWh	@ \$ 0.00080000	\$72.19
Energy Efficiency Investment Charge	90,240.00	kWh	@ \$ 0.00281800	\$258.25
Total Service Amount				\$8,381.15
Total Electric Charges				\$8,381.15

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
May 18, 2016	\$4,878.58

Questions? Contact Ameren Missouri at 1.877.426.3738 or visit AmerenMissouri.com.

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Address Changes or Corrections

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

AmerenMissouri.com/WaysToPay



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■ PO Box 790352 St. Louis, MO 63179-0352
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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 06/10/2016

Total Electric Charges \$64.71
Total Amount Due \$64.71

AMOUNT DUE \$64.71

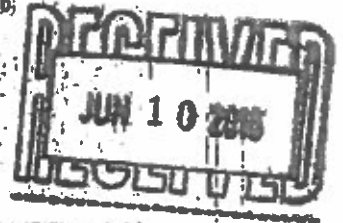
Due Date 06/22/2016

Delinquent After 07/01/2016
Amount After Delinquent Date \$65.88

Previous Statement \$358.82

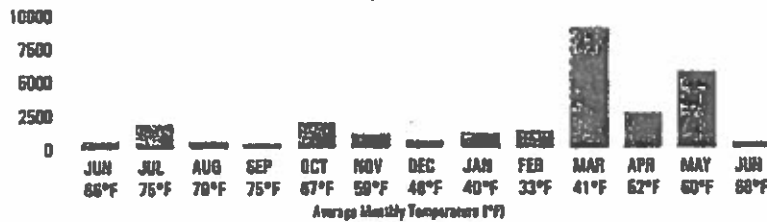
Total Payments \$358.82

Payment Received. Thank You.



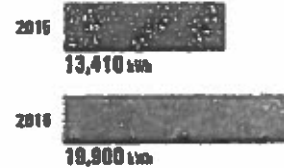
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using 48.4% more than last year.



Usage from Jan-Jun for 2015 & 2016

13073 00208 2206967 000361 000781 00010002

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Amount Due	Due Date
\$64.71	June 22, 2016
Amount After Delinquent Date 07/01/2016	Account Number
\$65.88	5580005920
Amount Enclosed \$	

>000209 2206967 0001 092139 102

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

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

50633000 0055800059200 000000064710 000000064710



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FOCUSED ENERGY. For life.

Electric Service Details Service from 05/08/2016 - 06/07/2016 (30 days)

Electric Meter Read

METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READING DIFFERENCE	MULTIPLIER	USAGE
98041272	05/08 - 06/07	30	Total kWh	Actual	11443.0000	11443.0000	40.0000	10.0000	400.0000
98041228	05/08 - 06/07	30	Peak kW	Actual	0.6000	0.0000	0.6000	10.0000	6.0000

Usage Summary

Total kWh 400.0000

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

Threshold - Peak Demand

DESCRIPTION	USAGE	UNIT	RATE	CHARGE
Total Energy Charge	400.00	kWh	@ \$ 0.10810000	\$43.24
Customer Charge				\$20.43
Fuel Adjustment Charge	400.00	kWh	@ \$-0.00002000	\$-0.01
Energy Efficiency Program Charge	400.00	kWh	@ \$ 0.00040000	\$0.16
Energy Efficiency Investment Charge	400.00	kWh	@ \$ 0.00221200	\$0.88
Total Service Amount				\$64.71
Total Electric Charges				\$64.71

Payments Since Previous Statement

DATE RECEIVED	AMOUNT
May 18, 2016	\$368.92

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

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MAIL
STUB & CHECK

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

INVOICE

Invoice No: 6934

SOLD TO:

01-Jun-16

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

Customer No: 20220

Terms: 30 days

REFERENCE	DESCRIPTION	AMOUNT
	Wastewater Plant operating service for month of: Jun-16	
	Base Fee	\$25,303.24
TOTAL DUE		\$25,303.24

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 65065

INVOICE

Invoice No: 6971

Invoice Date: 31-May-16

Customer No: 20220

Terms: 30 days

REFERENCE	DESCRIPTION	AMOUNT
	Hauled waste payments for the month of May-16 40 Hauled Waste Loads @ \$50.00 each	\$2,000.00
TOTAL DUE		\$2,000.00

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 65065

INVOICE

Invoice No: 8935
Invoice Date: 01-Jun-16
Customer No: 20220
Terms: 30 days

REFERENCE	DESCRIPTION	AMOUNT
	Purcell Tire and Service Center - 50%	\$57.50
TOTAL DUE		\$57.50



purcelltire.com

FILE AT REPT
ONLY TO

PURCELL TIRE CO.
P.O. BOX 500540
ST. LOUIS, MO 63151-0540

PURCELL TIRE AND SERVICE CENTER
990 VIRGINIA AVE

INVOICE #: 2094809

OSAGE BEACH, MO
65065

PAGE: 1

TIME STARTED: 11:02:40
TIME CLOSED: 09:03:33

573/348-4010

NONSIG #: 000163267

CUSTOMER: ALLIANCE WATER RESOURCE
D/B/A LO/OB JOINT
#3 ANDERSON RD
P O BOX 1985
LAKE OZARKS MO

2000441

ALLIANCE WATER RESOURCES

PO BOX 1985

LAKE OZARK, MO

65049

65049

BUSINESS: 573/365-0455

0

PRIMARY: 573/365-0455

0 VEHICLE: 2016 SERVICE CALL

SALESMAN: 02009

LICENSE: XX

MILEAGE:

INVOICE DATE: 04/28/16

TERMS: NET 10TH

PICKUP AT STORE: Y

VENDOR REQ: CUSTOMER: 2000441 VENDOR: 001 DOC#: 2094809 TRANS CODE: B
ALLIANCE WATER RESOU GOODYEAR
VENDOR CUSTOMER: 0009960 NONSIG: GOVERNMENT AND LOCAL
VEHICLE TYPE: TK TRUCK

PRODUCT	MECHANIC	QUANTITY	PRICE	F.E.T.	EXTENSION
A2 LARGE FLAT PORT TO PORT 046131	2017	1	90.00		90.00
FUEL SURCHARGE FUEL1		1.00	25.00		25.00

INSTALLED SPARE TIRE AND WILL SEND DAMAGED TIRE IN FOR SECTION REPAIR

LABOR: 115.00

INVOICE TOTAL: 115.00

*****THIS IS A REPRINTED INVOICE*****

GOVERNMENT

115.00

F/S/E FED/STATE/INDIAN

S

ULTIMATE TAX CERTIFICAT

Y

P.O. NUMBER

SLIG TRK

GS/AN # 1

69999999

GL Acct#: 16702-20 \$57.50 1220-20 \$57.50

Signature: *Ray Hultberg*

Date: 5/5/16

Customer Signature : _____

Printed Name: _____

1

SERVICE CHARGES: 1 1/2% PER MONTH (18% ANNUAL RATE) ON ALL PAST DUE AMOUNTS.

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

Account Number	Account Name	5/31/2016				2016 Actual as of 5/31/2016	2016 May Revenue	Percent YTD
		2014 Actual	2015 Actual	2016 Budget				
3020	Osage Beach	464,343.06	477,172.03	473,000.00		196,795.60	39,935.60	42%
3010	Lake Ozark	85,716.93	72,827.98	77,000.00		32,371.06	5,897.73	42%
3100	Interest	31.18	54.79	45.00		31.20	5.93	69%
3060	Waste Haulers' Fee	34,340.00	32,400.00	35,000.00		11,800.00	4,000.00	34%
Total Operating Fund		584,431.17	582,454.80	585,045.00		240,997.86	49,839.26	41%
E/R Fund Income		1,025.06	2,188.83	1,000.00		274.13	49.66	27%
TOTAL INCOME		585,456.23	584,643.63	586,045.00		241,271.99	49,888.92	41%

**MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
5/31/2016**

Account Number	Account Name	2014 Actual	2015 Actual	2016 Budget	2016 Actual as of 5/31/2016	2016 May Expenses	Percent YTD
4000	Equipment Replace Fund	41,606.04	41,606.04	41,606.04	17,335.85	3,467.17	42%
4010	ERF Repayment	0.00	0.00	0.00	0.00	0.00	
4020	*Maintenance & Repair	58,873.44	33,878.90	114,500.00	10,783.30	8,264.17	9%
4140	Insurance	16,502.00	16,306.00	17,000.00	16,977.00	0.00	100%
4150	***Vehicle Repair/Maint	9,186.16	1,508.78	8,000.00	101.64	0.00	1%
4160	Haulers Fees to Contractor	8,000.00	8,000.00	8,000.00	3,900.00	300.00	49%
4170	Contract Management	288,445.08	296,233.08	305,120.00	126,516.20	25,303.24	41%
4185	Electric	70,366.40	76,751.19	77,000.00	20,680.16	5,235.48	27%
4190	Bank Charges	0.00	0.00	0.00	0.00	3.00	0%
4200	Audit	1,900.00	2,000.00	2,100.00	0.00	0.00	0%
4220	Professional Service	43,038.41	2,369.99	15,000.00	0.00	0.00	0%
4240	Capital Purchases	0.00	0.00	82,000.00	0.00	0.00	0%
	Totals	537,917.53	478,653.98	670,326.04	196,294.15	42,573.06	41%
	**E/R Expenses	9,429.93	1,869.72	25,500.00	1,830.00	0.00	7%
	TOTAL EXPENSES	547,347.46	480,523.70	695,826.04	198,124.15	42,573.06	28%
**Equipment & Replacement							
Normal E/R							
	Replace impellers for RAS pumps	10,000.00					500.00
	Rebuild Arm Support Clarifier #2	8,500.00					5,000.00
	Replace doors	5,000.00					8,000.00
		<u>2,000.00</u>	X				8,000.00
		25,500.00					2,000.00
***Vehicle Repair/Maint							
Vehicle Maintenance							
	Tires for Sludge Truck	3,000.00					1,000.00
		<u>5,000.00</u>					90,000.00
		8,000.00					114,500.00

***Maintenance & Repair**

Auto Dialer Yrly Software Fee	500.00
To be determined.	5,000.00
Normal Maintenance	8,000.00
UV Spare Parts	8,000.00
Rock for Road	2,000.00
Strip and refinish tile in Admin Bldg	1,000.00
#1 Aeration Basin grit removal	90,000.00
	<u>114,500.00</u>

OPERATING FUND INCOME AND EXPENSE SUMMARY
5/31/2016

Beginning Balance	216,632.79
Income - Osage Beach	39,935.60
Income - Lake Ozark	5,897.73
Income - Other	0.00
Income - Waste Haulers' Fees	4,000.00
Interest - Checking	5.93
Income - CD Interest	0.00
Transfers From E/R Fund	0.00
Transfers to E/R fund	-3,467.17
Expenses	-39,099.89
Ending Fund Balance	223,904.99
NOW Account - Central Bank	174,972.41
CD St. Elizabeth, 3/17 #400886	50,000.00
Outstanding Checks:	-1,067.42
Deposit in Transit:	0.00
	223,904.99

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
5/31/2016

Beginning Balance	463,047.38
Interest - Checking	49.66
Income - CD Interest	0.00
Transfers From E/R Fund	0.00
Transfers to E/R Fund	3,467.17
Income - Miscellaneous	0.00
Expenses	0.00
Ending Fund Balance	466,564.21
NOW Account - First Bank	115,496.83
CD Providence Bank, 10/16 #1268880	200,355.15
CD First Bank of the Lake, 01/17 #101318429	100,712.23
CD St. Elizabeth, 3/17 #485431	50,000.00
Deposit in Transit	0.00
Outstanding Checks:	0.00
	466,564.21

Operating Fund

CHECK REGISTER - JOINT SEWER BOARD OPERATION FUND

reconciled balance 2/29/16				206,750.49
3502	Equipment Replacement Fund	X	3,467.17	203,283.32
3503	Alliance Water Resources, Inc.	X	25,303.24	177,980.08
3504	VOID	X		177,980.08
3505	Alliance Water Resources, Inc.	X	300.00	177,680.08
3506	Alliance Water Resources, Inc.	X	381.29	177,298.79
3507	Ameren MO	X	3,613.18	-
3508	Equipment Replacement Fund	X	1,171.98	-
3509	Bank of St. Elizabeth	X	50,000.00	-
	Deposit LO	X	-	5,991.80
	Deposit OB	X		39,841.53
	Deposit	X		2,100.00
	Deposit	X		700.00
	Deposit	X		1,600.00
	Interest	X		6.89
reconciled balance 3/31/16				172,753.85
3510	Naught Naught	X	16,977.00	155,776.85
3511	Ameren MO	X	4,195.25	-
3512	Equipment Replacement Fund	X	3,467.17	148,114.43
3513	Alliance Water Resources, Inc.	X	25,303.24	122,811.19
3514	Alliance Water Resources, Inc.	X	2,200.00	120,611.19
3515	Alliance Water Resources, Inc.	X	413.91	120,197.28
	Bank Charge	X	3.00	120,194.28
	Deposit LO	X	-	6,427.72
	Deposit OB	X		39,405.61
	Deposit	X		600.00
	Interest	X		5.18
reconciled balance 4/30/16				166,632.79
3516	Ameren MO	X	5,235.48	-
3517	Equipment Replacement Fund	X	3,467.17	161,397.31
3518	Alliance Water Resources, Inc.	X	25,303.24	157,930.14
3519	Alliance Water Resources, Inc.	X	300.00	132,626.90
3520	Alliance Water Resources, Inc.	X	1,031.57	132,326.90
3521	UV Doctor Lamps LLC	X	1,560.18	131,295.33
3522	Xylem Water Solutions, Inc.		1,067.42	129,735.15
3523	John Henry Foster	X	4,605.00	128,667.73
	Bank Charge	X	-	3.00
	Deposit LO	X	-	5,897.73
	Deposit OB	X		39,935.60
	Deposit	X		4,000.00
	Interest	X		5.93
reconciled balance 5/31/16				173,904.99
				173,904.99

L/N


Central Bank
 of Lake of the Ozarks

MEMBER FDIC

 P.O. Box 45000, Jefferson City, MO 65102
 (573) 348-2761

RETURN SERVICE REQUESTED

 LAKE OZARK OSAGE BEACH JOINT SEWER
 TREATMENT PLANT BOARD
 1800 CITY PKWY
 OSAGE BEACH MO 65065-3058

Period 05/01/2016 - 05/31/2016 Page 1 of 3

 Web Address
 www.cbolobank.com

M

Your Financial Summary on May 31, 2016

	Bank Deposits	Totals
Bank Deposit Accounts:		
Checking	\$ 174,972.41	
Bank Deposit Total		\$ 174,972.41
Total Assets:	\$ 174,972.41	\$ 174,972.41

Detailed Explanation of Account Balances and Other Assets

Basic Plus Interest Checking

No. 000007297		Beginning Balance April 29, 2016		\$	186,632.79
Deposits					
May04	IMAGE/TRNC STMT FEE REFUND				3.00
May06	Deposit				1,400.00
May17	Deposit				5,897.73
May17	Deposit				39,935.60
May18	Deposit				800.00
May27	Deposit				1,800.00
May31	Interest Earned				5.93
Total				+\$	49,842.26
Checks					
Check No.	Date Paid	Amount	Check No.	Date Paid	Amount
3516	May20	5,235.48	3520	May20	1,031.57
3517	May19	3,467.17	3521	May24	1,560.18
3518	May20	25,303.24	3523	May24	4,605.00
3519	May20	300.00			
Total				-\$	41,502.64
Ending Balance May 31, 2016				\$	174,972.41

 Number of days since last statement/interest cycle 31
 Beginning and ending dates for calculation of statement/interest cycle are 05/01/2016 through 05/31/2016
 Average collected balance 174,882.00
 Interest rate 0.04%
 Annual percentage yield earned 0.04%

JSB - CHECK REGISTERS 2016

CHECK REGISTER - JOINT SEWER BOARD EQUIPMENT REPLACEMENT FUND				
	reconciled balance 2/29/16			154,945.23
	Interest	X	57.10	155,002.33
1014	G&L Welding	X	1,171.98	153,830.35
	TRANS FROM BOLO	X		155,002.33
	Deposit	X	1,171.98	158,469.50
1015	Bank of St. Elizabeth	X	3,467.17	108,469.50
	reconciled balance 3/31/16		50,000.00	108,469.50
	Interest	X		108,512.83
	Deposit	X	43.33	111,980.00
	reconciled balance 4/30/16		3,467.17	111,980.00
	Interest	X		112,029.66
	Deposit	X	49.66	115,496.83
	reconciled balance 5/31/16		3,467.17	115,496.83



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

536 00010 01
ACCOUNT:
DOCUMENTS:

PAGE: 1
05/31/2016

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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

BUSINESS MONEY MARKET)

LAST STATEMENT 04/29/16 111,980.00
2 CREDITS 3,516.83
DEBITS .00
THIS STATEMENT 05/31/16 115,496.83

REF #.....DATE.....AMOUNT REF #.....DATE.....AMOUNT REF #.....DATE.....AMOUNT
05/18 3,467.17

DESCRIPTION DATE AMOUNT
INTEREST 05/31 49.66

AVERAGE LEDGER BALANCE: 113,496.88 INTEREST EARNED: 49.66
AVERAGE AVAILABLE BALANCE: 113,280.18 DAYS IN PERIOD: 32
INTEREST PAID THIS PERIOD: 49.66 ANNUAL PERCENTAGE YIELD EARNED: .50%
INTEREST PAID 2016: 274.13

*** CONTINUED ***



NOTICE: SEE REVERSE SIDE FOR IMPORTANT INFORMATION





**OPERATING
DIVISIONS**

MISSOURI

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

OWA

Maquoketa
 Tipton

TENNESSEE

South Fulton

REPORT OF OPERATIONS

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

Month of May 2016

Submitted by Alliance Water Resources, Inc. for the

June 2016

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-01013241. 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	2.7	2.1	NA	< 20		0.07	<5.0	0
Peak Day	5.7	4.0	7.9	< 20		0.10	<5.0	0
Percent Removal	98.5	99.2	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						5.6	15	8.1

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.575 MGD or 53% of Permitted flow with Lake Ozark contributing 14% of the total flow and Osage Beach contributing 86%. 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 75442 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 77 tanker loads of bio-solids during the month equivalent to a total of 284,900 gallons and 91,185 pounds dry weight solids.

194,837 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 435,625 gallons with a level of 5.5 feet in Tank 1 and 3.0 feet in Tank 2.

WASTEHAULERS

The plant received 40 loads of septage during the month totaling 100,000 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 had to replace one of the wiper cylinders on one of the UV modules on the 5th of May.
- We had to take the big sludge truck in to Roemer's and have the PTO carrier bearing and motor mount bolts replaced on the 20th of May.

SAFETY

- We conducted our monthly routine Safety Meeting on Electrical Safety on the 11th of May.

REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the EDMR on MDNR's website on the 3rd of June.
- We received the results for our 2nd quarter 503 regs sludge sample results on the 20th of May. (see attachment)

MISCELLANEOUS AND RECOMMENDATIONS

- We solicited 3 quotes for the purchase of a replacement benchtop HACH pH meter and probe. We received one from HACH, USA Bluebook and HD Supply Waterworks. We are going to recommend HD Supply, due to it being a local business. (see attachment)
- We would like to Thank Matt and the City of Lake Ozark for hauling and spreading some rock on one of our sludge application sites driveway and also for brush hogging around the plant. Many Thanks!

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF May 2016

DATE		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-May	0	0.339	1.889	2.228	15.2	84.8						
2-May	0	0.189	1.186	1.375	13.7	86.3						
3-May	0	0.187	1.097	1.284	14.6	85.4						
4-May	0	0.126	1.030	1.156	10.9	89.1						
5-May	0	0.163	1.047	1.210	13.5	86.5						
6-May	0	0.168	1.082	1.250	13.4	86.6	215	175	155	188	152	186
7-May	0	0.197	1.138	1.335	14.8	85.2						
8-May	0	0.225	1.264	1.489	15.1	84.9						
9-May	0	0.187	1.121	1.308	14.3	85.7						
10-May	0.2	0.167	1.071	1.238	13.5	86.5						
11-May	0	0.164	1.043	1.207	13.6	86.4						
12-May	0	0.155	1.119	1.274	12.2	87.8						
13-May	0	0.178	1.142	1.320	13.5	86.5	205	288	175	124	220	186
14-May	0	0.165	1.158	1.323	12.5	87.5						
15-May	0	0.187	1.185	1.372	13.6	86.4						
16-May	0	0.152	0.847	0.999	15.2	84.8						
17-May	1.3	0.165	1.744	1.909	8.6	91.4						
18-May	0.35	0.224	1.401	1.625	13.8	86.2						
19-May	0	0.176	1.074	1.250	14.1	85.9						
20-May	0.1	0.170	1.111	1.281	13.3	86.7	248	155	148	172	152	180
21-May	0	0.182	1.268	1.450	12.6	87.4						
22-May	0	0.216	1.400	1.616	13.4	86.6						
23-May	0	0.199	1.267	1.466	13.6	86.4						
24-May	0	0.178	1.295	1.473	12.1	87.9						
25-May	0.7	0.215	1.350	1.565	13.7	86.3						
26-May	0.35	0.192	1.261	1.453	13.2	86.8						
27-May	3.35	0.496	2.775	3.271	15.2	84.8	208	170	263	138	166	458
28-May	0	0.341	1.940	2.281	14.9	85.1						
29-May	0	0.399	1.909	2.308	17.3	82.7						
30-May	0	0.306	1.810	2.116	14.5	85.5						
31-May	0.6	0.296	2.102	2.398	12.3	87.7						
SUM	7.0	6.704	42.126	48.830								
AVG		0.216	1.359	1.575	14	86	219	197	185	156	173	253
NOTE: BOLD PRINT INDICATES WEEKEND DAYS												

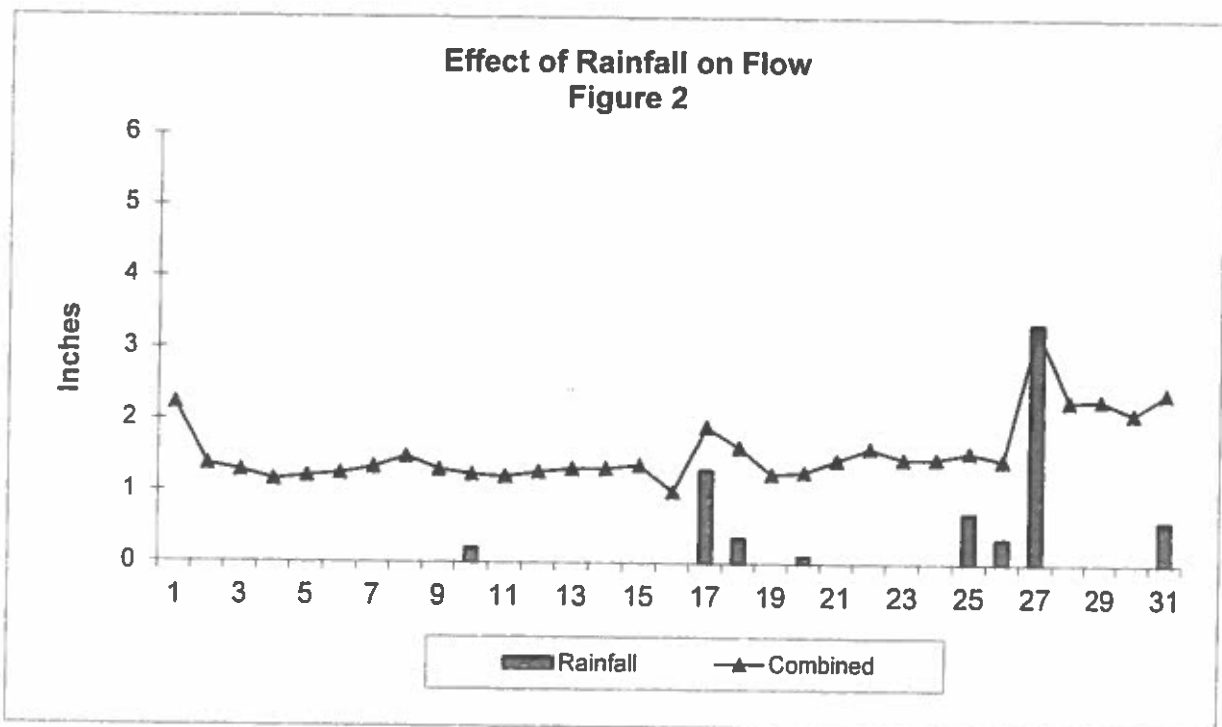
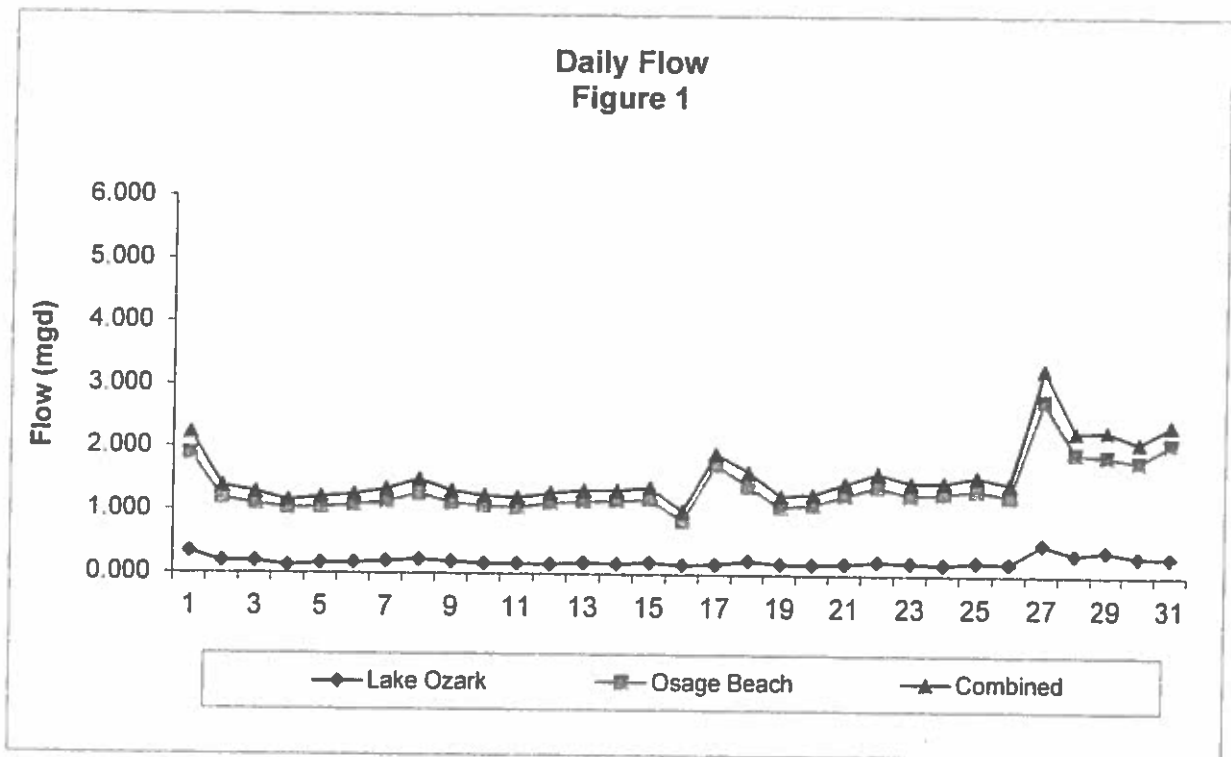
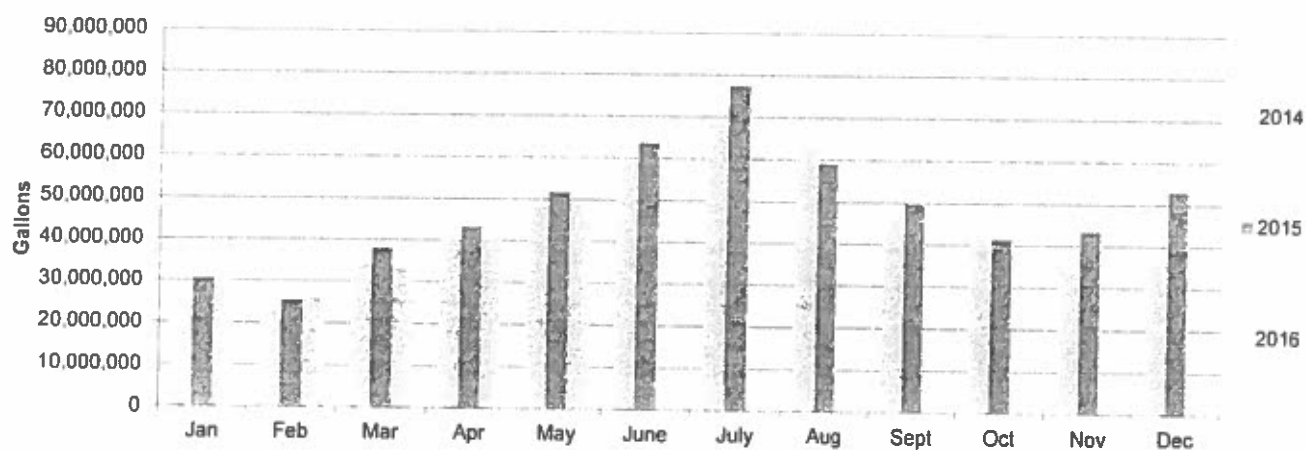


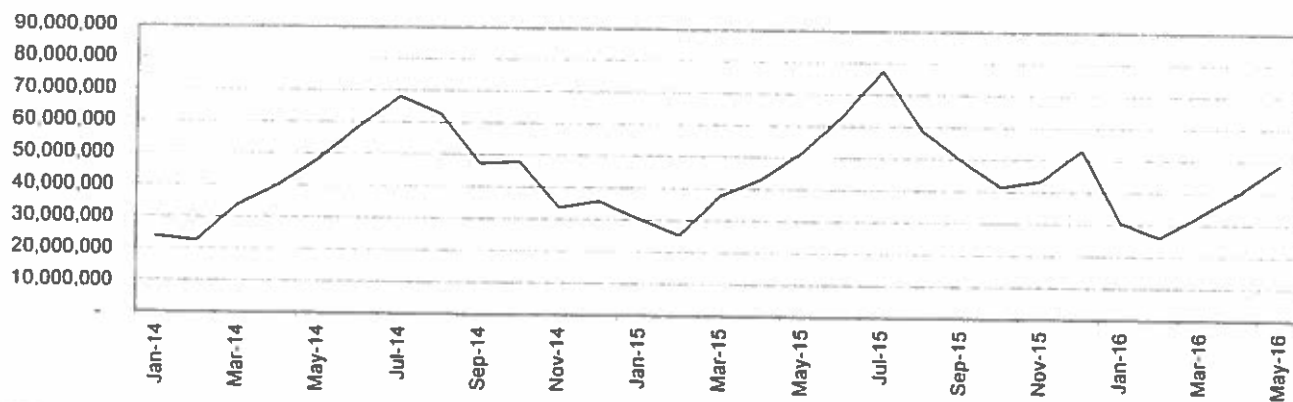
TABLE B
JOINT SEWER BOARD
Monthly Flows

<u>2014</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	3.0	19,229,000	81%	4,634,000	19%	23,863,000	100%
February	1.3	18,444,000	82%	4,114,000	18%	22,558,000	100%
March	1.2	28,731,000	85%	5,061,000	15%	33,792,000	100%
April	5.1	33,479,000	84%	6,515,000	16%	39,994,000	100%
May	4.7	41,054,000	85%	7,129,000	15%	48,183,000	100%
June	5.1	50,416,000	86%	8,342,000	14%	58,758,000	100%
July	3.1	59,089,000	87%	9,059,000	13%	68,148,000	100%
August	2.9	54,624,000	87%	8,228,000	13%	62,852,000	100%
September	3.4	40,316,000	86%	6,735,000	14%	47,051,000	100%
October	7.9	41,322,000	86%	6,659,000	14%	47,981,000	100%
November	1.6	29,315,000	87%	4,506,000	13%	33,821,000	100%
December	2.6	31,534,000	88%	4,204,000	12%	35,738,000	100%
	41.7	447,553,000	85%	75,186,000	15%	522,739,000	100%
<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%
<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							
July							
August							
September							
October							
November							
December							
	17.0	155,012,000	87%	23,848,000	13%	178,860,000	100%

Monthly Influent Flow
Figure 3A

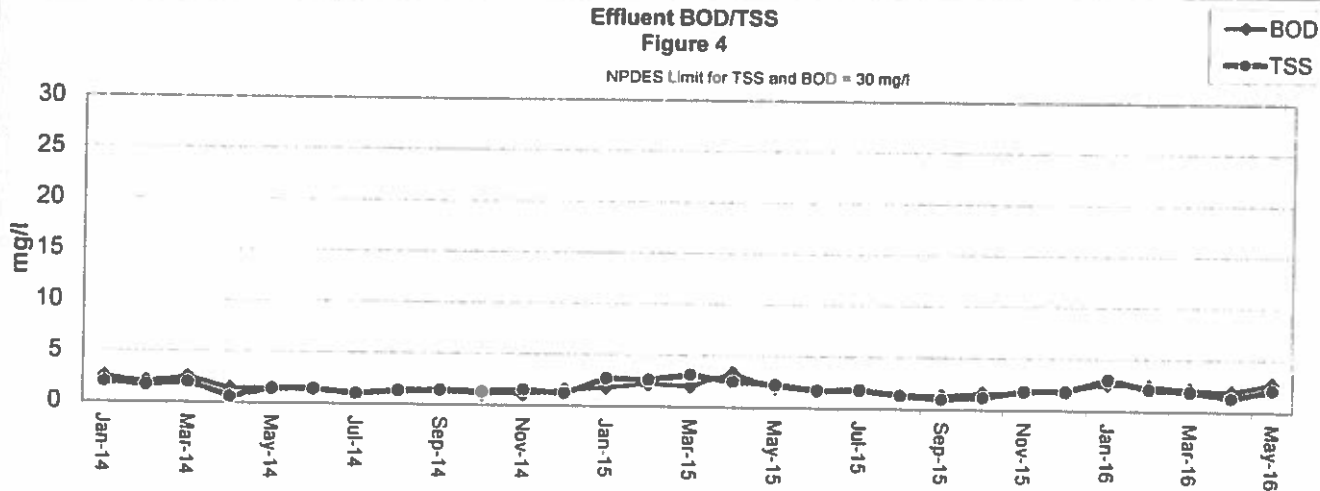


Monthly Influent Flow
Figure 3B

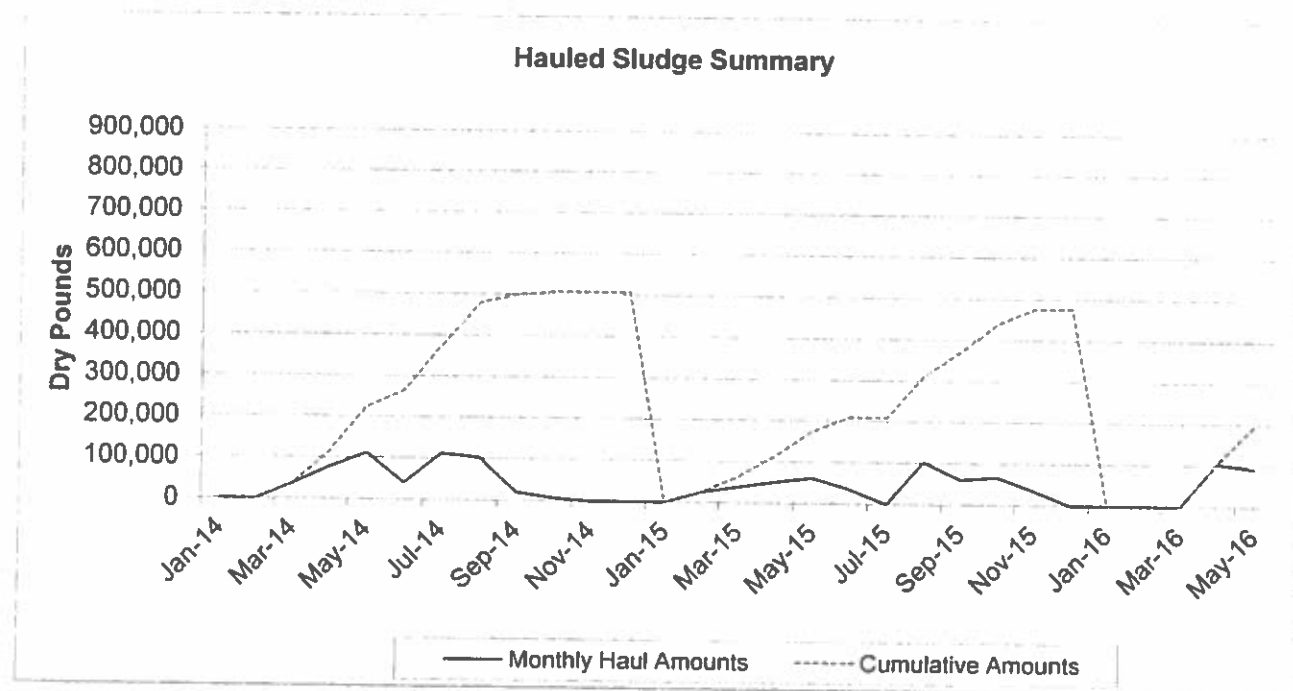
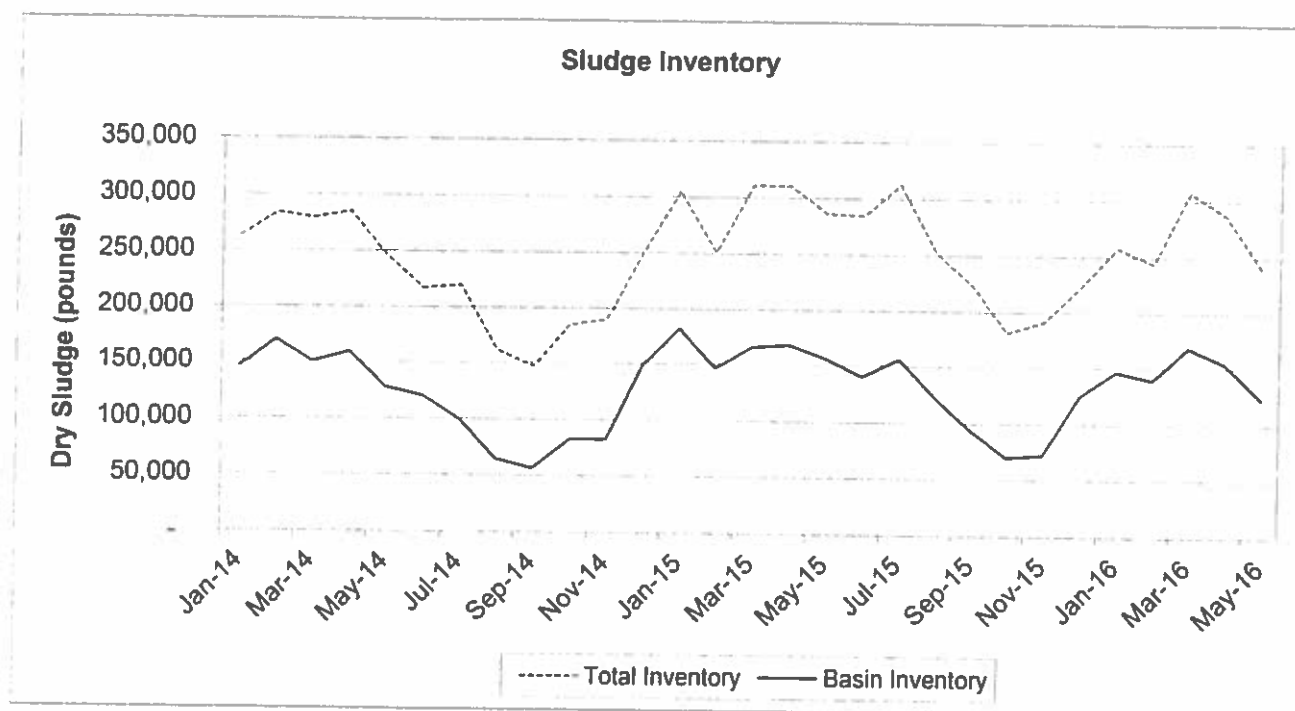


Effluent BOD/TSS
Figure 4

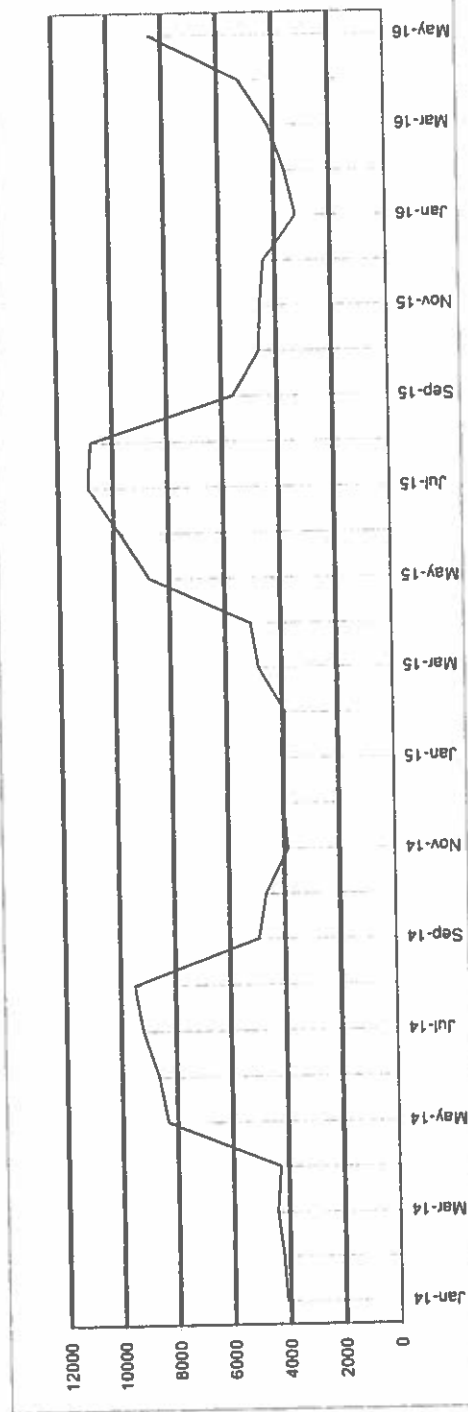
NPDES Limit for TSS and BOD = 30 mg/l



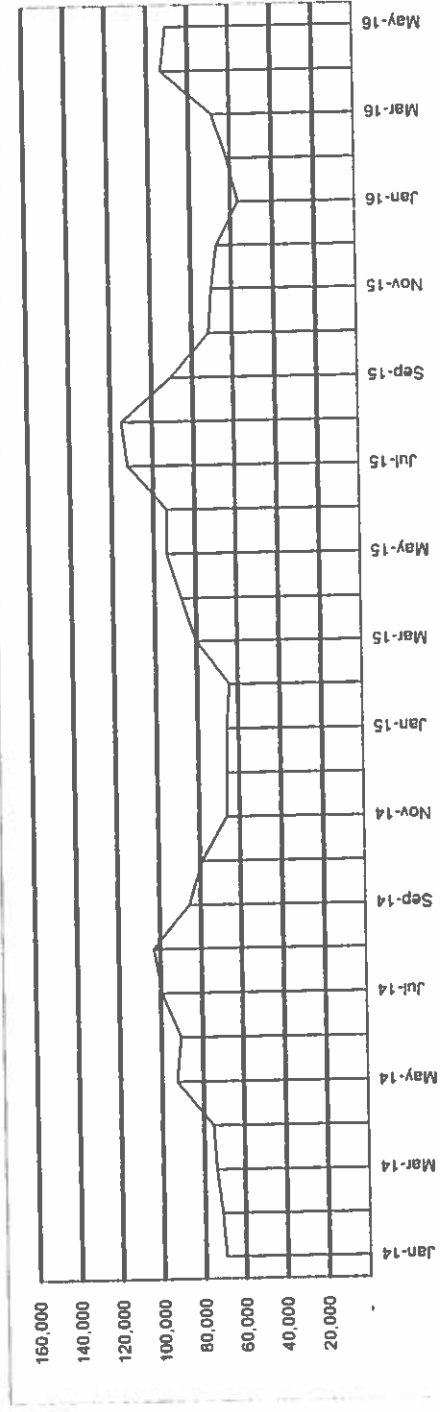
Loads	Gallons	Hauled Sludge		Annual Cumulative # Dry	Basin Depths			# Dry	Blanket Depths										MLSS Inventory				Blanket and MLSS Inventory		MLSS	% Solids	Sludge Inventory	Total Dry
		# Dry	% Solids		Tank #1	Tank #2	AB #1		Clart #1	Clart #2	Clart #3	MLSS AB #1	MLSS AB #2	Gallons	# Dry	% Solids	Gallons	# Dry										
0	-	0	4.3%	-	4.0	5.0	0.0	405,000	145,241	2.0	2.5	0.0	3,690	3,960	3,679,929	117,392	0.00393	262,633	22	54,500	6	15,000						
0	-	0	4.3%	-	5.0	5.5	0.0	472,500	169,448	1.5	2.5	0.0	3,410	4,030	3,671,048	113,894	0.00372	283,341	35	90,500								
29	107,300	35,703	4.0%	35,703	5.0	5.0	0.0	450,000	149,733	0.5	0.5	0.5	4,270	4,230	3,639,476	129,001	0.00425	278,734	30	75,000								
65	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	284,606	24	60,000								
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	4,040	3,740,142	118,377	0.0038	245,638	26	61,000								
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	96,988	0.00382	219,664	44	111,500								
117	432,900	112,292	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	0.00317	161,484	55	129,000								
107	395,900	102,873	3.1%	480,212	5.5	0.0	0.0	247,500	64,374	1.0	1.0	1.0	3,690	2,640	3,678,952	97,110	0.00317	146,682	33	79,500								
17	62,900	19,811	3.8%	500,023	2.5	1.5	0.0	180,000	56,593	0.0	1.5	2.0	2,990	3,620	3,713,499	102,358	0.00331	184,927	20	50,000								
5	18,500	6,769	4.4%	506,812	4.0	1.0	0.0	225,000	82,569	0.0	2.0	1.0	3,630	3,330	3,678,952	106,775	0.00327	189,341	22	55,000								
0	-	0	4.4%	506,812	5.0	4.0	0.0	405,000	148,619	0.0	2.0	2.0	3,480	3,060	3,722,380	101,516	0.00348	250,135	18	40,000								
0	-	0	4.4%	506,812	5.5	5.5	0.0	495,000	161,845	2.0	2.0	0.0	3,900	4,160	3,671,048	123,385	0.00403	305,030	21	52,500								
20	74,000	24,069	3.9%	24,069	6.0	4.0	0.0	450,000	146,366	1.0	1.0	0.0	3,580	3,290	3,635,524	104,150	0.00344	250,516	11	27,500								
34	125,800	38,603	3.7%	62,672	5.5	6.5	0.0	540,000	165,704	1.0	2.0	2.0	5,040	4,250	3,740,142	144,890	0.00465	310,595	23	57,500								
44	162,900	50,607	3.7%	113,278	6.0	6.0	0.0	540,000	167,861	2.5	2.0	1.0	5,180	4,000	3,723,357	142,532	0.00459	310,393	26	65,000								
55	203,500	61,284	3.6%	174,563	5.5	8.0	0.0	517,500	155,845	1.5	2.0	4.0	4,630	4,110	3,835,879	130,204	0.00407	286,049	37	92,500								
35	129,500	35,024	3.2%	209,587	8.0	3.5	0.0	517,500	139,981	2.0	1.0	3.0	4,630	4,550	3,783,570	144,837	0.00459	284,798	42	104,000								
0	-	0	3.2%	209,587	6.5	6.5	0.0	585,000	156,125	1.0	2.0	1.0	5,470	4,660	3,696,714	156,157	0.00507	312,282	44	110,000								
107	395,900	102,356	3.1%	311,943	6.5	4.0	0.0	472,500	122,160	0.5	1.0	0.5	4,170	4,400	3,648,357	130,533	0.00429	252,693	32	80,000								
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	4,480	3,570	3,678,952	130,400	0.00425	223,925	22	55,000								
59	218,300	67,949	3.7%	440,312	4.0	1.0	0.0	225,000	70,034	1.0	1.0	1.0	3,310	4,430	3,714,476	118,803	0.00384	181,237	21	52,500								
30	111,000	35,734	3.9%	476,046	3.0	2.0	0.0	225,000	72,434	1.0	3.0	1.0	3,440	3,709,547	3,617,762	99,000	0.00332	223,412	22	55,000								
0	-	0	3.9%	476,046	4.5	4.0	0.0	382,500	124,412	2.0	0.5	1.5	4,460	1,940	3,709,547	111,184	0.00369	257,551	19	47,500								
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	105,211	0.00347	244,260	21	52,500								
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	139,249	0.00445	307,571	6	15,000								
0	-	0	3.9%	-	5.5	5.0	0.0	517,500	168,322	2.0	2.0	1.0	4,670	4,320	3,714,476	132,600	0.00426	286,515	44	110,000								
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								
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								



Electric Cost



Kilowatts Used



Electric Cost Kilowatts Used

Jan-14	4116	69,690
Feb-14	4226	71,330
Mar-14	4427	73,840
Apr-14	4297	75,240
May-14	8325	92,580
Jun-14	8643	90,400
Jul-14	9200	99,540
Aug-14	9483	103,070
Sep-14	4953	85,380
Oct-14	4663	78,920
Nov-14	3864	66,400
Dec-14	4009	66,040
Jan-15	3947	65,860
Feb-15	3901	64,300
Mar-15	4821	80,190
Apr-15	5084	87,050
May-15	8707	93,810
Jun-15	9772	93,490
Jul-15	10912	112,040
Aug-15	10807	114,770
Sep-15	5585	90,520
Oct-15	4620	71,940
Nov-15	4556	70,170
Dec-15	4413	67,300
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



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

NAME OF FACILITY						LOCATION ADDRESS & CITY							COUNTY/REGION	
Lake of the Ozarks Regional WWTP #1						#3 Anderson Road							Miller/SWRO	
MONTH/YEAR		PERMIT NUMBER				OUTFALL NUMBER		TYPE TREATMENT FACILITY						
May-16		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	7.2			16.9	2.619	7.9				6.1		17.5		
2	7.4			17.0	2.017	7.9				6.9	< 20	17.4		
3	7.4			16.8	1.389	7.8				5.9		16.6		
4	7.4			17.2	1.493	7.8				6.7		17.2		
5	7.4			16.7	1.603	7.7			0.08	5.8		17.0		
6	7.3	155	186	16.8	1.537	7.8	1.3	1.2		6.3		16.7	99.2	99.4
7	7.3			16.9	1.575	7.8				6.5		16.7		
8	7.4			17.5	1.769	7.9				6.2		17.7		
9	7.3			18.4	1.595	7.8				5.6	< 20	18.9		
10	7.3			18.3	1.493	7.8				5.6		18.9		
11	7.3			18.4	1.484	7.8				5.4		19.6		
12	7.4			18.5	1.551	7.8			0.06	5.1		20.2		
13	7.5	175	186	18.5	1.610	7.8	2.0	1.8		5.6		19.8	98.9	99.0
14	7.3			17.4	1.556	7.8				5.6		17.8		
15	7.4			17.0	1.722	7.8				5.4		16.9		
16	7.4			17.6	1.628	7.8				5.2	< 20	17.2		
17	7.3			17.1	2.119	7.8				4.9		16.8		
18	7.3			17.0	2.037	7.8				5.7		16.6		
19	7.4			17.1	1.667	7.8			0.10	6.0		16.6		
20	7.4	148	180	17.8	1.715	7.8	1.6	1.5		6.0		17.3	98.9	99.2
21	7.3			17.5	1.736	7.8				5.6		17.0		
22	7.5			17.0	1.915	7.8				5.0		17.4		
23	7.4			18.6	1.789	7.8				5.2	< 20	19.1		
24	7.4			18.7	1.754	7.8				5.1		19.3		
25	7.4			19.0	1.927	7.8				5.6		19.4		
26	7.5			19.5	1.752	7.8			0.05	5.6		20.3		
27	7.3	263	458	20.0	3.650	7.7	5.7	4.0		4.2		21.1	97.8	99.1
28	7.4			20.8	2.584	7.7				4.6		21.3		
29	7.3			21.2	2.527	7.8				4.4		21.7		
30	7.4			21.1	2.381	7.8				4.6	< 20	21.9		
31	7.5			20.8	2.690	7.9				4.9		21.6		
Total					58.884									
Avg		185	253	18.2	1.899		2.7	2.1	0.07	5.5	< 20	18.5	98.7	99.2
Min	7.2	148	180	16.7	1.389	7.7	1.3	1.2	0.05	4.2	< 20	16.6	97.8	99.0
Max	7.5	263	458	21.2	3.650	7.9	5.7	4.0	0.10	6.9	< 20	21.9	99.2	99.4

MONTHLY EFFLUENT MONITORING		QUARTERLY EFFLUENT MONITORING	
DATE	Oil & Grease mg/L	Selenium µg/L	Zinc µg/L
1			
2			
3			
4			
5			
6			
7			
8			
9	< 5.0		
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
Total			
Avg	< 5.0	0.00	0.00
Min	< 5.0	0.00	0.00
Max	< 5.0	0.00	0.00

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		1.8	3,780	430	17.3	2.4	3,480	410	17.5	55	0	7:30
2		1.8	4,470	590	17.1	2.5	3,500	450	17	53	0	7:30
3	3,425	2.6	4,490	600	16.6	3.4	4,020	520	16.5	51	0	7:30
4	5,863	3.1	3,610	480	16.9	3.1	3,980	600	16.8	59	0	7:30
5		1.4	4,870	670	16.5	2.2	3,670	400	16.4	48	0	7:30
6		1.3	5,130	700	16.3	3.5	3,490	390	16.3	47	0	7:30
7		2.7	4,050	550	16.6	3.7	3,370	400	16.8	52	0	7:30
8		3.7	3,240	400	17.6	4.1	2,510	330	17.7	57	0	7:30
9	8,424	2.2	3,350	350	19	2.8	2,200	300	19	66	0	7:30
10	9,628	1.8	4,050	420	19.2	1.4	4,440	510	19.1	62	0.2	7:30
11	6,172	1.8	3,250	380	19.6	1.4	4,280	570	19.6	65	0	7:30
12	8,640	1.4	4,630	550	20.3	1.4	2,580	410	20.1	64	0	7:30
13	8,640	1.8	4,350	490	19.5	1.6	4,060	480	19.2	53	0	7:30
14	9,288	3.2	4,020	500	17.6	3.8	3,610	450	17.5	50	0	7:30
15	9,072	3.4	3,760	570	16.5	4.2	3,370	430	16.5	42	0	7:30
16		3.1	4,070	450	17	3.9	2,950	330	17.2	53	0	7:30
17	5,246	1.1	4,250	570	16.6	1.3	3,860	490	16.6	51	1.3	7:30
18	6,295	3.0	4,050	540	16.5	3.9	3,440	470	16.5	49	0.35	7:30
19	8,393	2.3	4,170	540	17	3.9	3,730	400	17.1	48	0	7:30
20	2,098	2.0	3,910	490	17.5	4.0	3,240	350	17.3	58	0.1	7:30
21		3.2	4,260	600	16.9	4.5	3,050	340	17	53	0	7:30
22		3.0	3,770	420	17.2	3.4	3,080	400	17.1	51	0	7:30
23		1.3	5,700	680	19	2.8	1,790	280	18.8	60	0	7:30
24		1.4	4,670	550	19.3	2.1	3,640	400	19.1	66	0	7:30
25		1.8	4,860	600	19.5	2.9	3,290	320	19.2	64	0.7	7:30
26		1.4	4,470	590	20.8	2.5	2,270	300	20.5	68	0.35	7:30
27		1.2	3,910	440	21.8	1.2	3,340	380	20.9	69	3.35	7:30
28		1.3	3,860	430	21.2	1.4	3,270	350	20.9	68	0	7:30
29		1.1	3,430	410	21.5	1.2	3,140	340	21.4	66	0	7:30
30		1.2	4,080	450	21.1	1.4	3,490	400	21.1	64	0	7:30
31		1.5	3,770	440	21.6	1.3	3,670	470	21.3	66	0.6	7:30

COMMENTS:

TESTS PERFORMED BY (PRINT)	SIGNATURE	PHONE #	DATE
John Hornback		(573)365-0455	6/3/2016
REPORT APPROVED BY (PRINT)	SIGNATURE	PHONE #	DATE
Gary Hutchcraft		(573)365-0455	6/3/2016

*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 #1 Anderson Road
LAKE OZARK MO 65049

MO0103241	001 A
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
YEAR MO DAY	YEAR MO DAY
2016 05 01	2016 05 31

FROM

TO

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	*****		5.7	2.7	*****	Weekly	24 Hour Composite
Stage Type: End of Pipe	REQRMNT	*****		Weekly Average 45	Monthly Average 30	*****	Weekly	24 Hour Composite
E. coli, colony forming units (CFU) (51041)	REPORTD	*****		*****	<20	<20	Weekly	Grab
Stage Type: End of Pipe	REQRMNT	*****		*****	Weekly Average 630	Monthly Average 126	Weekly	Grab
Flow, in conduit or thru treatment plant (50050)	REPORTD	3.650	1.899	*****	*****	*****	Daily	Record
Stage Type: End of Pipe	REQRMNT	Daily Maximum Monitoring Required	Monthly Average Monitoring Required	*****	*****	*****	Daily	Record
Nitrogen, ammonia total (as N) (00610)	REPORTD	*****		0.10	0.07	*****	Weekly	Grab
Stage Type: End of Pipe	REQRMNT	*****		Daily Maximum 5.6	Monthly Average 1.2	*****	Weekly	Grab
Oil and grease (swtlet extr) tot (00550)	REPORTD	*****		<5.0	<5.0	*****	Monthly	Grab
Stage Type: End of Pipe	REQRMNT	*****		Daily Maximum 15	Monthly Average 10	*****	Monthly	Grab
pH (00400)	REPORTD	*****		7.7	7.9	*****	Weekly	Grab
Stage Type: End of Pipe	REQRMNT	*****		Minimum 6	Maximum 9	*****	Weekly	Grab
Temperature, water deg centigrade (00010)	REPORTD	*****		21.9	18.5	*****	Weekly	Grab
Stage Type: End of Pipe	REQRMNT	*****		Daily Maximum Monitoring Required	Monthly Average Monitoring Required	*****	Weekly	Grab

GENERAL PERMIT REQUIREMENTS OR COMMENTS
ON THE ATTACHED COMMENTS
FOR AND THERAPEUTIC 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 fines and imprisonment for knowing violations.

OPERATOR IN RESPONSIBLE CHARGE		7305
TYPED OR PRINTED NAME		CERTIFICATE NUMBER
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		573-365-0455
TYPED OR PRINTED NAME	SIGNATURE	Date

Page 1

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 #1 Anderson Road
LAKE OZARK MO 65049

MO0103241	001 A
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
YEAR MO DAY	YEAR MO DAY
2016 05 01	2016 05 31

FROM

TO

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM

Parameter		MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Total Suspended Solids (TSS) (00530)	REPORTD	*****		4.0	2.1	*****	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
ON THE ATTACHED COMMENTS
FOR AND THERAPEUTIC 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 fines and imprisonment for knowing violations.

OPERATOR IN RESPONSIBLE CHARGE		7305
TYPED OR PRINTED NAME		CERTIFICATE NUMBER
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		573-365-0455
TYPED OR PRINTED NAME	SIGNATURE	Date

Page 2

for MAY 2016

6/3/2016

Approved by _____ CHD _____

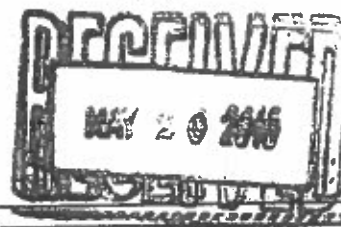
Prepared by GAL, F.H. JHPrepared by: GAH, FHL, JH

Environmental Analysis South, Inc

4000 East Jackson Blvd. - Jackson MO 63755 - 573-204-8817 - Fax 573-204-8818

Lake Ozark Regional WWTP
Alliance Lake of the Ozarks
P. O. Box 1985
Lake Ozarks, MO 65049

Report Number: 135618



Report of Analysis

Reference:

The analysis of biosolids from wastewater treatment facilities is conducted in accordance with 40 CFR Part 503.

Log Number:
1916532

Sample Description:
Quarterly Sludge

Sample Date:
4/11/2016

Sample Received Date:
4/12/2016

Coli S

Test Description	Result	Units	Method	Comment Code	Analysis Date	Analyst
Fecal Coliform in Sludge	128,000	CFU/g	SM-9222 D-97		04/12/16	102
Total Solids Average	4.08	% w/w	SM-2540 G-97		04/12/16	102

Nutrients

Test Description	Result	Units	Method	Comment Code	Analysis Date	Analyst
Phosphorus	20400	mg/Kg	SM-20 4500-P E-99		04/19/16	133

PAN Group

Test Description	Result	Units	Method	Comment Code	Analysis Date	Analyst
Ammonia Nitrogen, Distilled	9,950	mg/Kg	Lachat-10-107-06-1-K		04/19/16	102
Kjeldahl Nitrogen	44,200	mg/Kg	Lachat-10-107-06-2-K		05/10/16	102
Nitrate as Nitrogen	< 120	mg/Kg	EPA-300.0 Rev. 2	PDC	04/22/16	
Nitrite as Nitrogen	< 120	mg/Kg	EPA-300.0 Rev. 2	PDC	04/22/16	
Organic Nitrogen	34,200	mg/Kg	Lachat-10-107-06-2-K		05/10/16	102
PAN - Subsurface Application	16790	ppm	Calculation		05/12/16	127
PAN - Surface Application	13805	ppm	Calculation		05/12/16	127

Preparation Methods

Test Description	Result	Units	Method	Comment Code	Analysis Date	Analyst
Anions IC Sample Preparation	1	Prep	SM-4110B-00	PDC	04/19/16	
Metals ICP Sample Digestion	1	Prep	EPA-200.7 Rev. 4.4	PDC	04/21/16	
Total Metals Flame-AA Digestion	1	Prep	EPA-200.2		04/14/16	133

Thursday, May 12, 2016

Page 1 of 2

Environmental Analysis South, Inc

4000 East Jackson Blvd. - Jackson MO 63755 - 573-204-8817 - Fax 573-204-8818

Lake Ozark Regional WWTP
Alliance Lake of the Ozarks
P. O. Box 1985
Lake Ozarks, MO 65049

Report Number: 135618

Report of Analysis

Log Number: 1916532 Sample Description: Quarterly Sludge Sample Date: 4/11/2016 Sample Received Date: 4/12/2016

Solids

Test Description	Result	Units	Method	Comment Code	Analysis Date	Analyst
Total Solids	4.05	% w/w	SM-2540 G-97		04/15/16	133

Total (Total Recoverable) Trace Metals

Test Description	Result	Units	Method	Comment Code	Analysis Date	Analyst
Arsenic by ICP	< 3.0	mg/Kg	EPA-200.7 Rev. 4.4	PDC	04/21/16	
Cadmium	< 0.40	mg/Kg	SM-3111 B-99		04/15/16	133
Chromium	34.0	mg/Kg	SM-3111 B-99		04/15/16	133
Copper	420	mg/Kg	SM-3111 B-99		04/15/16	133
Lead by ICP	25	mg/Kg	EPA-200.7 Rev. 4.4	PDC	04/21/16	
Mercury by Cold-Vapor Technique	< 0.10	mg/Kg	SM-3112 B-99		04/20/16	133
Molybdenum by ICP	6.8	mg/Kg	EPA-200.7 Rev. 4.4	PDC	04/21/16	
Nickel	9.3	mg/Kg	SM-3111 B-99		04/15/16	133
Potassium	1850	mg/Kg	SM-3111 B-99		04/28/16	133
Selenium by ICP	2.4	mg/Kg	EPA-200.7 Rev. 4.4	PDC	04/21/16	
Zinc	704	mg/Kg	SM-3111 B-99		04/15/16	133

Respectfully submitted,


David F. Warren

Comments:

PDC This parameter or group of analytes was analyzed by the subcontracting lab - PDC Lab
Saint Louis, MO

135618

Address: P.O. Box 1985 / #3 ANDERSON RD.

City/State/Zip: LAKE OZARK MO 65049

PO Number: N/A ☐ Rush Requested (Due Date: _____)

CHAIN OF CUSTODY RECORD

Sampler's Signature:Date: 4/11/16 Time: 3:00 ☐ See Table

Additional Comments:

[illegible]

FECAL COLIFORM IN SLUDGE

Standard Methods 18th edition method 9222D/SW-846 method 9132

Log #

1916532

Date:

4/12/2016

Analyst:

133

Total Solid calculation

Sample	Sample Size	Tare Weight	Tare Wt + Res.	Residue Wt.	Final Result
Replicate	(grams)	(grams)	(grams)	(grams)	(%w/w)
A	29.4627	1.9016	3.1084	1.2068	4.1
B	32.6410	1.9164	3.2501	1.3337	4.09
C	34.6134	1.9341	3.3499	1.4158	4.09
D	32.8619	1.9107	3.2396	1.3289	4.04
E	34.0206	1.8978	3.2996	1.4018	4.12
F	32.7782	1.9056	3.2424	1.3368	4.08
G	32.6499	1.9258	3.2529	1.3271	4.06
				Average Total Solid	4.08

Colony Counts

Date:

4/12/2016

Analyst:

133

Sample	Wt. Of Sample	Sample Size	Colony Count	Final Count
Replicate	(grams)	(mls - 0.1, 1.0, 10)	used	#/gram (dry)
A	0.3192	1	19	145,000
B	0.3348	1	18	131,000
C	0.2818	1	8	69,400
D	0.3111	1	19	151,000
E	0.2961	1	20	164,000
F	0.3294	1	19	141,000
G	0.2893	1	14	119,000
Geometric Average				128,000

Approved by:



Environmental Analysis South, Inc.
Clarification Coagulant Sludges
Sludge Analysis

5/12/2016

Submitted by: Alliance Lake Ozarks					
Log Number: 1916532					
pH					
Coliform					
Parameter	Wet %	Wet ppm	Dry %	Dry ppm	lbs/dry Tons
Moisture			95.95		
Solids			4.05		
Volatile Solids					
Ash					
Nitrogen (TKN)	0.179%	1788.075	4.415%	44150.000	88.300
Nitrate N	0.000%	0.000	0.000%	ND	0.000
Nitrite N	0.000%	0.000	0.000%	ND	0.000
Ammonia N	0.040%	402.975	0.995%	9950.000	19.900
Organic N	0.139%	1385.100	3.420%	34200.000	68.400
PAN Surface Application	0.056%	559.103	1.381%	13805.000	27.610
PAN Subsurface Application	0.068%	679.995	1.679%	16790.000	33.580
Potassium (as K)	0.007%	74.925	0.185%	1850.000	3.700
Phosphorus (as P)	0.083%	826.200	2.040%	20400.000	40.800
Arsenic (as As)	ND	ND	ND	ND	ND
Cadmium (as Cd)	ND	ND	ND	ND	ND
Chromium (as Cr)	0.000%	1.377	0.003%	34.000	0.068
Copper (as Cu)	0.002%	17.010	0.042%	420.000	0.840
Molybdenum (as Mo)	0.000%	0.275	0.001%	6.800	0.014
Nickel (as Ni)	0.000%	0.377	0.001%	9.300	0.019
Lead (as Pb)	0.000%	1.013	0.003%	25.000	0.050
Selenium (as Se)	0.000%	0.097	0.000%	2.400	0.005
Zinc (as Zn)	0.003%	28.512	0.070%	704.000	1.408
Mercury (as Hg)	ND	ND	ND	ND	ND
code ND = none detected					
code NT = not tested					



Bids for a replacement benchtop pH Meter, Probe & Stand

Bidder	Budget	Price for 1 - HQ411d Meter, Intellical Gel Probe & Stand
HACH	\$2,000.00	\$1,193.09
USA Bluebook	"	\$1,150.42
HD Supply	"	\$1,150.42

Freight is included in all bids

