

**OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
APRIL 19, 2016 @ 4:00 p.m.
LAKE OZARK CITY HALL**

1. CALL TO ORDER

2. ROLL CALL

Mayor, Osage Beach, Penny Lyons
Mayor, Lake Ozark, Johnnie Franzekos
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

Page Numbers

Regular Meeting; March 15, 2016

3- 4

4. REPORTS

Bill List
Revenue Budget Analysis
Expenditure Budget Analysis
Income & Expense Summary
Check Registers & Bank Statements

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24-27**

Alliance Report of Operations

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5. OLD BUSINESS

A. Magruder litigation

6. NEW BUSINESS: None

7. ADDITIONAL DISCUSSION ITEMS

8. ADJOURNMENT

THE NEXT MEETING WILL BE MAY 17, 2016, 4:00 PM @ LAKE OZARK CITY HALL

**LAKE OZARK-OSAGE BEACH
JOINT SEWER BOARD
Meeting Minutes-March 15, 2016**

Call to Order:

Mayor Penny Lyons called the meeting to order at 4:00p.m. on Tuesday, March 15, 2016 at Osage Beach City Hall.

Roll Call:

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

Others Present:

Mike Welty for Jeana Woods
Eric Hibdon for Nick Edelman
Kari Bell, Osage Beach Treasurer
Gary Hutchcraft-Alliance

Minutes of Past Meeting:

Kari Bell, made mention of corrections needed regarding the meeting minutes of February 16, 2016. Notably the 2 operating accounts **are nearing FDIC limits** instead of exceeding the FDIC limits for insurance. In addition, it is the Bank of St. Elizabeth and not Bank of Elizabeth. Mayor Franzeskos made a motion to approve the corrections and approve the minutes, seconded by Alderman Gerry Murawski. The motion passed unanimously.

Public Comment: None at this time.

Bills List February 2016:

Mayor Franzeskos requested a motion to approve the February 2016 Bills List, seconded by Alderman Gerry Murawski. Motion passed unanimously.

New Business:

Corporate Resolution Bank of St. Elizabeth. A motion was made by Mr. Hammer regarding the CD's, seconded by Mayor Franzeskos, motion passed unanimously.

Additional Discussion Items:

Mr. Hamner handed updated charts from last year, noting the growth over time was under 2 percent. Last year there was a 10 percent in growth and he indicated we were back to the status in 2008 before the recession. The page 3 chart showed the growth/capacity projection.

Adjournment:

With nothing further to discuss, Mayor Lyons declared the meeting adjourned at 4:26p.m. The next scheduled meeting is April 19, 2016, 4:00p.m. at Lake Ozark City Hall.

Penny Lyons
Osage Beach Mayor

Kimberly Baker
Lake Ozark City Clerk

JOINT SEWER BOARD
BILL LIST
APRIL 19, 2016

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ 24,785.43
OPERATING FUND BILLS TO BE PAID:	\$ 31,384.32
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ -
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$ -
TOTAL	\$ 56,169.75

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:	Amount:
4185	3507	Ameren MO	February Service	\$ 3,613.18
4185	3511	Ameren MO	March Service	\$ 4,195.25
4140	3510	Naught-Naught Insurance	4/10/16-4/10/17	\$ 16,977.00
TOTAL				\$ 24,785.43

OPERATING FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
				\$ -
4000	3512	Equipment Replacement Fund	Payment into ER Fund	\$ 3,467.17
4170	3513	Alliance Water Resources, Inc.	Management Fee	\$ 25,303.24
4160	3514	Alliance Water Resources, Inc.	Hauled Wasted	\$ 2,200.00
4020	3515	Alliance Water Resources, Inc.	50% Reimb. M&R	\$ 413.91
TOTAL				\$ 31,384.32

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				\$ -



Please Return This Portion With Your Payment.

☐ Pure Power

\$210.95	Apr 21, 2016
\$214.11	55800-05920

Amount Enclosed \$

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

Ameren Missouri
P.O. Box 88068
Chicago, IL 60680-1068



50633000 0055800059200 000000210950 000000210950

Keep This Portion For Your Records

55800-05920
ALLIANCE WATER RESOURCES INC
3 ANDERSON RD
LAKE OZARK, MO 65049

Apr 11, 2016

Apr 21, 2016	\$210.95
May 2, 2016	\$214.11

Payment Received on Mar 21, 2016

1521.85

Total kWh	98041275	03/08-04/07	30	10618.0000	10880.0000	262.0000	10.0000	2620.0000A
Peak kW	98041275	03/08-04/07	30	0.0000	6.3470	6.3470	10.0000	53.4700A

Service To		SUMMARY		Service To	
Total kWh	04/07/2016	2620.0000	Winter Base kWh	04/07/2016	1810.0000
Current Base kWh	04/07/2016	1810.0000	Seasonal kWh	04/07/2016	810.0000

METERED ELECTRIC SERVICE BILLING

Rate 2M 5m Gen Svc - 3 Ph w/Dmd
Threshold - Peak Demand

Service From 03/08/2016 To 04/07/2016

Base Energy Charge	1,810.00 kWh	@ \$.08060000	\$145.89
Seasonal Energy Charge	810.00 kWh	@ \$.04650000	\$37.67
Customer Charge			\$20.43
Fuel Adjustment Charge	2,620.00 kWh	@ \$.00191000	\$5.00
Energy Efficiency Pgm Charge	2,620.00 kWh	@ \$.00020000	\$0.52
Energy Efficiency Invest Chg	2,620.00 kWh	@ \$.00054900	\$1.44
Total Service Amount			\$210.95

Current Amount Due	\$210.95
Prior Amount Due	\$0.00
Total Amount Due	\$210.95

A late payment charge of 1.5% will be added for any unpaid balance on all accounts after the delinquent date.

Direct Pay Makes Paying Bills Easier. To enroll, go to AmerenMissouri.com, or call 1.800.552.7583 to request an enrollment form.

Pure Power lets your home or business support wind power and other forms of renewable energy in Missouri and the Midwest. Learn more at: AmerenMissouri.com/purepower.



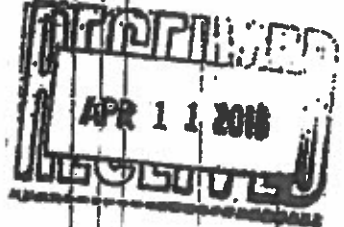
Please Return This Portion With Your Payment.

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

Ameren Missouri
P.O. Box 88068
Chicago, IL 60680-1068

\$3,984.30	Apr 21, 2016
\$4,044.06	45800-05832

Amount
Enclosed \$



10600000 0045800058302 000003984300 000003984300

Keep This Portion For Your Records

45800-05832
ALLIANCE WATER RESOURCES INC
3 ANDERSON RD, - LAKE OZARK, MO 65049

Apr 21, 2016	\$3,984.30
May 2, 2016	\$4,044.06

Payment Received on Mar 21, 2016

\$3,091.53

Total kWh	11673321 03/08-04/07 30	33408.0000	33823.0000	415.0000	160.0000	66400.0000A
Peak kW	11673321 03/08-04/07 30	0.0000	0.9210	0.9210	160.0000	147.3600A

Service To		SUMMARY		Service To	
Total kWh	04/07/2016	66400.0000	Peak kW	04/07/2016	147.4000
Total Billing Demand	04/07/2016	147.3000	October Winter Base kW	04/07/2016	145.1000
Winter Base Demand	04/07/2016	145.1000	Base kWh Ratio	04/07/2016	0.9843
Base kWh (HUD)	04/07/2016	65358.0000	Seasonal kWh (HUD)	04/07/2016	1042.0000

METERED ELECTRIC SERVICE BILLING

Rate 3M Large General Service		Service From 03/08/2016 To 04/07/2016	
Seasonal Energy Charge	1,047.00 kWh	@ \$0.03800000	\$39.60
Demand Charge	147.40 kW	@ \$1.79000000	\$263.85
Base Energy Chg / Hours Used	21,763.00 kWh	@ \$0.06510000	\$1,416.90
Base Energy Chg / Hours Used	29,026.00 kWh	@ \$0.04830000	\$1,401.67
Base Energy Chg / Hours Used	14,573.00 kWh	@ \$0.03800000	\$553.77
Customer Charge			\$92.85
Fuel Adjustment Charge	66,400.00 kWh	@ \$0.00191000	\$126.82
Energy Efficiency Pgm Charge	66,400.00 kWh	@ \$0.00040000	\$26.56
Energy Efficiency Invest Chg	66,400.00 kWh	@ \$0.00093800	\$62.28
Total Service Amount			\$3,984.30

Current Amount Due	\$3,984.30
Prior Amount Due	\$0.00
Total Amount Due	\$3,984.30

A late payment charge of 1.5% will be added for any unpaid balance on all accounts after the delinquent date.

Direct Pay Makes Paying Bills Easier. To enroll, go to AmerenMissouri.com, or call 1.800.552.7583 to request an enrollment form.



Please Return This Portion With Your Payment.

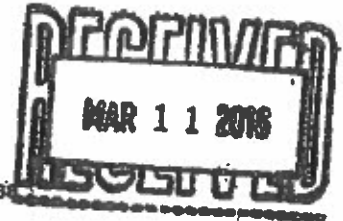
☐ Pure Power

\$521.65	Mar 23, 2016
\$529.47	55800-05920

Amount Enclosed \$

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

Ameren Missouri
P.O. Box 88068
Chicago, IL 60680-1068



50633000 0055800059200 000000521650 000000521650

Keep This Portion For Your Records

55800-05920
ALLIANCE WATER RESOURCES INC
3 ANDERSON RD LAKE OZARK, MO 65049

Mar 11, 2016

Mar 23, 2016	\$521.65
Apr 4, 2016	\$529.47

Payment Received on Feb 25, 2016 \$124.61

Total kWh	98041275	02/08-03/08	29	9724.0000	10618.0000	894.0000	10.0000	8940.0000A
Peak kW	98041275	02/08-03/08	29	0.0000	5.9780	5.9780	10.0000	59.7800A

	Service To		SUMMARY	Service To	
Total kWh	03/08/2016	8940.0000	Winter Base kWh	03/08/2016	1810.0000
Current Base kWh	03/08/2016	1810.0000	Seasonal kWh	03/08/2016	7130.0000

METERED ELECTRIC SERVICE BILLING

Rate 2M Sm Gen Svc - 3 Ph w/Dmd	Service From	02/08/2016	To	03/08/2016
Threshold - Peak Demand				
Base Energy Charge	1,810.00 kWh	@ \$.00060000		\$145.89
Seasonal Energy Charge	7,130.00 kWh	@ \$.04650000		\$331.55
Customer Charge				\$20.43
Fuel Adjustment Charge	8,940.00 kWh	@ \$.00191000		\$17.08
Energy Efficiency Pgm Charge	8,940.00 kWh	@ \$.00020000		\$1.79
Energy Efficiency Invest Chg	8,940.00 kWh	@ \$.00054900		\$4.91
Total Service Amount				\$521.65

Current Amount Due	\$521.65
Prior Amount Due	\$0.00
Total Amount Due	\$521.65

Sign up for Pure Power to support clean renewable energy in Missouri and the Midwest. By checking the box, a 1 cent per kilowatt hour charge will apply. You may cancel at any time.

A late payment charge of 1.5% will be added for any unpaid balance on all accounts after the delinquent date.



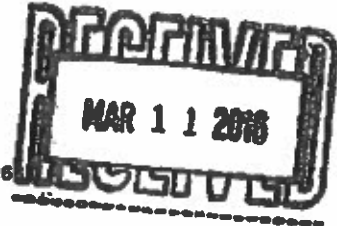
Please Return This Portion With Your Payment.

\$3,091.53	Mar 22, 2016
\$3,137.90	45800-05832

Amount
Enclosed \$ _____

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

Ameren Missouri
P.O. Box 88068
Chicago, IL 60680-1068



80600000 0045800058302 000003091530 000003091530

Keep This Portion For Your Records

45800-05832
ALLIANCE WATER RESOURCES INC
3 ANDERSON RD, -
LAKE OZARK, MO 65049

Mar 10, 2016

Mar 22, 2016	\$3,091.53
Apr 1, 2016	\$3,137.90

Payment Received on Feb 26, 2016

\$3,098.91

Total kWh	11673321	02/08/08	29	33078.0000	33408.0000	330.0000	160.0000	52800.0000A
Peak kW	11673321	02/08/08	29	0.0000	0.6480	0.6480	160.0000	103.6800A
Service To				SUMMARY				Service To
Total kWh		03/08/2016		52800.0000	Peak kW		03/08/2016	103.7000
Total Billing Demand		03/08/2016		103.7000	October Winter Base kW		03/08/2016	145.1000
Winter Base Demand		03/08/2016		103.7000	Base kWh Ratio		03/08/2016	1.0000
Base kWh (HUD)		03/08/2016		52800.0000	Seasonal kWh (HUD)		03/08/2016	0.0000

METERED ELECTRIC SERVICE BILLING

Rate 3M Large General Service		Service From 02/08/2016 To 03/08/2016	
Seasonal Energy Charge	0.00 kWh	@ \$0.03000000	\$0.00
Demand Charge	103.70 kW	@ \$1.79000000	\$185.62
Base Energy Chg / Hours Used	15,555.00 kWh	@ \$0.06510000	\$1,012.63
Base Energy Chg / Hours Used	20,740.00 kWh	@ \$0.04830000	\$1,001.74
Base Energy Chg / Hours Used	16,505.00 kWh	@ \$0.03800000	\$627.19
Customer Charge			\$92.85
Fuel Adjustment Charge	52,800.00 kWh	@ \$0.00191000	\$100.85
Energy Efficiency Pgm Charge	52,800.00 kWh	@ \$0.00040000	\$21.12
Energy Efficiency Invest Chg	52,800.00 kWh	@ \$0.00093800	\$49.53
Total Service Amount			\$3,091.53

Current Amount Due	\$3,091.53
Prior Amount Due	\$0.00
Total Amount Due	\$3,091.53

A late payment charge of 1.5% will be added for any unpaid balance on all accounts after the delinquent date.



Naught-Naught Ins/Osage Beach

P O Box 187
Osage Beach, MO 65065
Phone: 573-348-2794 Fax: 866-779-8102

STATEMENT

Page 1

ACCOUNT NO.	CSR	STATEMENT AS OF
LAKE-33	15	03/30/2016

PRODUCER

Steve Naught

AMOUNT DUE

\$16,977.00

AMOUNT PAID

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

Item #	Trn	Eff Date	Description	Amount	Payments/Credits	Balance Due
9C3HRJ	REN	04/10/16	16/17 Package	\$13,887.00	\$0.00	\$13,887.00
9C3HRK	REN	04/10/16	16/17 Aut	\$2,832.00	\$0.00	\$2,832.00
9C3HRL	REN	04/10/16	Inc Pl p Values Eff 4	\$1,558.00	\$0.00	\$1,558.00
Total Balance Due:						\$16,977.00

PA # 3510

Due upon receipt. See prior invoices for full detail.

**2016 Lake Ozark-Osage Beach
Joint Sewer Treatment Plant
Statement of Values**

ITEM #	BLDG #	LOCATION ADDRESS	DESCRIPTION	BUILDING LIMIT	CONTENTS LIMIT	BUILT	AREA	CONSTR.
1	1	#3 Anderson Rd, Lake Ozark	Lab Building	96,870	32,474	1985	1,790	Masonry
1	1	#3 Anderson Rd, Lake Ozark	Box Culvert	55,257				
1	1	#3 Anderson Rd, Lake Ozark	Paving	20,510				
1	1	#3 Anderson Rd, Lake Ozark	Exterior Lights	158,665				
1	1	#3 Anderson Rd, Lake Ozark	Lab Piping	158,665				
1	1	#3 Anderson Rd, Lake Ozark	Lab Meters	42,088				
1	1	#3 Anderson Rd, Lake Ozark	Head Works Incl Controllers	133,931	348,670		1,855	
1	1	#3 Anderson Rd, Lake Ozark	RAS Pit Incl Controllers	41,057			96	
1	1	#3 Anderson Rd, Lake Ozark	Gate	61,530				
1	1	#3 Anderson Rd, Lake Ozark	Headworks Piping	157,454				
1	1	#3 Anderson Rd, Lake Ozark	Meters	42,088				
1	1	#3 Anderson Rd, Lake Ozark	Aeration Tank	2,760,612				
1	1	#3 Anderson Rd, Lake Ozark	Meters	42,088				
1	1	#3 Anderson Rd, Lake Ozark	Non-Portable Wet Well	36,628				
1	1	#3 Anderson Rd, Lake Ozark	Cascade	142,586				
1	1	#3 Anderson Rd, Lake Ozark	Sludge Basin	451,441				
1	1	#3 Anderson Rd, Lake Ozark	Blower Building	64,947			676	
1	1	#3 Anderson Rd, Lake Ozark	Blower	56,403				
1	1	#3 Anderson Rd, Lake Ozark	Blower	15,361				
1	1	#3 Anderson Rd, Lake Ozark	Well House	102,551	25,637		285	
1	1	#3 Anderson Rd, Lake Ozark	Clarifier	320,676				
1	1	#3 Anderson Rd, Lake Ozark	Well Piping	157,454				
1	1	#3 Anderson Rd, Lake Ozark	Meters	42,088				
1	1	#3 Anderson Rd, Lake Ozark	Clarifier 3	812,694				
1	1	#3 Anderson Rd, Lake Ozark	UV Disinfection System	678,539			877	
1	1	#3 Anderson Rd, Lake Ozark	Fencing	65,112				
1	1	#3 Anderson Rd, Lake Ozark	Storage Building	4,445		2014	240	Frame
		Totals		6,721,760	406,781			
COMBINED TOTALS								7,128,541

THE CINCINNATI INSURANCE COMPANY
A STOCK INSURANCE COMPANY
COMMERCIAL GENERAL LIABILITY COVERAGE
PART DECLARATIONS

Attached to and forming part of POLICY NUMBER: <u>UPP 000 70 60</u> Effective Date: <u>06-10-2015</u>							
Named Insured: IS THE SAME AS IT APPEARS ON THE COMMON POLICY DECLARATIONS							
LIMITS OF INSURANCE							
EACH OCCURRENCE LIMIT				\$ <u>2,727,689</u>			
GENERAL AGGREGATE LIMIT				\$ <u>2,727,689</u>			
PRODUCTS-COMPLETED OPERATIONS AGGREGATE LIMIT				\$ <u>2,727,689</u>			
PERSONAL & ADVERTISING INJURY LIMIT				\$ <u>2,727,689</u>			
DAMAGE TO PREMISES RENTED TO YOU LIMIT				ANY ONE PERSON OR ORGANIZATION			
\$100,000 limit unless otherwise indicated herein:				\$ <u>REFER TO GA233</u> ANY ONE PREMISES			
MEDICAL EXPENSE LIMIT				ANYONE PERSON			
\$5,000 limit unless otherwise indicated herein:				\$ <u>REFER TO GA233</u>			
CLASSIFICATION	CODE NO.	PREMIUM BASE A - Area B - Payroll C - Gross Sales D - Units E - Other	RATE		ADVANCE PREMIUM		
			Products / Completed Operations	All Other	Products / Completed Operations	All Other	
AUTOMATIC ADD. INSURED-CONTRACTORS OPERATIONS	29970			0.025		55	
CONTRACTORS BROADENED COVERAGE	29975			0.025		55	
CONT.-REPAIR NOT BLDG.	91581	E 388,500 TOTAL COST	3.64	1.703	1,414	662	
SEWAGE DISPOSAL-PLANT	98810	B 19,500		6.23		141	
The General Liability Coverage Part is subject to an annual minimum premium.						TOTAL ANNUAL PREMIUM \$ 2,327	
FORMS AND / OR ENDORSEMENTS APPLICABLE TO THIS COVERAGE PART:							
GA101	12/04	C62625	04/09	C62650	12/98	GA4150H0	02/02
GA4287H0	08/08	C62505	10/93	GA255	09/10	C62233	07/98
GA233	02/07	GA3005	09/10	GA3006	09/10	GA3024	05/14
GA323	10/01	GA340	10/01	GA369	11/02	GA382	03/02

THE CINCINNATI INSURANCE COMPANY
COMMERCIAL UMBRELLA LIABILITY COVERAGE
PART DECLARATIONS

RENEWAL OF UPP 000 70 40

Attached to and forming part of POLICY NUMBER <u>UPP 000 70 40</u>		Effective Date: <u>06-10-2015</u>
NAMED INSURED is the same as it appears in the Common Policy Declarations unless another entry is made here.		
LIMITS OF INSURANCE		
\$ <u>2</u> ,000,000 Each Occurrence Limit		\$ <u>2</u> ,000,000 Aggregate Limit
ADVANCE PREMIUM \$ <u>1,619</u>		
Applicable to Premium, if box is checked:		
☐ Subject to Annual Adjustment		
☐ Subject to Audit (see Premium Computation Endorsement for Rating Basis)		
SCHEDULE OF UNDERLYING INSURANCE		
Insurer, Policy Number & Period:	Underlying Insurance:	Underlying Limits:
(a)	Employer's Liability	Bodily Injury by Accident: \$ _____ Each Accident Bodily Injury by Disease: \$ _____ Each Employee Bodily Injury by Disease: \$ _____ Policy Limit
(b) CINCINNATI INS CO UPP 000 70 40 04-10-2015 TO 2016	☒ Commercial General Liability Including: ☒ Products-Completed Operations Coverage ☐ Cemetery Professional ☐ Druggist Professional ☐ Funeral Service Provider ☐ Podiatrists Professional or ☐ Business Liability Including: ☐ Funeral Service Provider ☐ Druggist Professional	Bodily Injury and Property Damage Liability: \$ <u>2,727,489</u> Each Occurrence Limit \$ <u>2,727,489</u> General Aggregate Limit \$ <u>2,727,489</u> Products-Completed Operations Aggregate Limit Personal and Advertising Injury Limit: \$ <u>2,727,489</u> Any One Person or Organization
(c) SAME AS (b)	Automobile Liability Including: ☐ Owned Autos ☐ Non-Owned Autos ☐ Hired Autos ☒ Any Auto	Bodily Injury Liability Limit: \$ _____ Each Person \$ _____ Each Occurrence Property Damage Liability Limit: \$ _____ Each Occurrence or Bodily Injury Liability and / or Property Damage Liability or Both Combined Limit: \$ <u>1,000,000</u> Each Occurrence
FORMS AND / OR ENDORSEMENTS APPLICABLE TO THIS COVERAGE PART: REFER TO 1A450F		

THE CINCINNATI INSURANCE COMPANY

CINCINNATI, OHIO

BUSINESS AUTO COVERAGE PART DECLARATIONS

ITEM ONE			
Attached to and forming part of POLICY NUMBER <u>HPA 000 70 40</u>		Effective Date: <u>04-10-2016</u>	
Named Insured: <u>IS THE SAME AS IT APPEARS ON THE COMMON POLICY DECLARATIONS</u>			
ITEM TWO SCHEDULE OF COVERAGES AND COVERED AUTOS			
This coverage part provides only those coverages where a premium or "Incl" is shown in the premium column below. The limit of insurance for each coverage listed is subject to all applicable policy provisions. Each of these coverages will apply only to those "autos" shown as covered "autos". "Autos" are shown as covered "autos" for a particular coverage by the entry of one or more of the symbols from the COVERED AUTO Section of the Business Auto Coverage Form next to the name of the coverage.			
COVERAGES	COVERED AUTOS (Entry of one or more of the symbols from the COVERED AUTOS Section of the Business Auto Coverage Form shows which autos are covered autos)	LIMIT THE MOST WE WILL PAY FOR ANY ONE ACCIDENT OR LOSS	PREMIUM
LIABILITY	1	\$ 1,000,000	INCL
PERSONAL INJURY PROTECTION (or equivalent No-fault coverage)		Separately stated in each P.I.P. endorsement minus \$ Ded.	
ADDED PERSONAL INJURY PROTECTION (or equivalent added No-fault coverage)		Separately stated in each added P.I.P. endorsement	
PROPERTY PROTECTION INSURANCE (Michigan only)		Separately stated in each P. P.I. endorsement minus \$ Ded	
AUTO. MEDICAL PAYMENTS	2	\$ 5,000	INCL
UNINSURED MOTORISTS	2	\$ 1,000,000	INCL
UNDERINSURED MOTORISTS (When not included in Uninsured Motorists Coverage)	2	\$ 1,000,000	INCL
PHYSICAL DAMAGE COMPREHENSIVE COVERAGE	7	Actual cash value or cost of repair, whichever is less minus \$888 AA218 Ded. For each covered auto. But no Deductible applies to loss caused by Fire or lightning. See Item Three for hired or borrowed "autos"	INCL
PHYSICAL DAMAGE SPECIFIED CAUSES OF LOSS COVERAGE		Actual cash value or cost of repair, whichever is less minus \$ Ded. For Each covered auto. For loss caused by mischief or vandalism. See Item Three for hired or borrowed "autos"	
PHYSICAL DAMAGE COLLISION COVERAGE	7	Actual cash value or cost of repair, whichever is less minus \$888 AA218 Ded for each covered auto. See Item Three for hired or borrowed "autos".	INCL
PHYSICAL DAMAGE INSURANCE TOWING AND LABOR		\$ for each disablement of a private passenger auto	
PREMIUM FOR ENDORSEMENTS			
*ESTIMATED TOTAL PREMIUM			INCL
FORMS AND ENDORSEMENTS CONTAINED IN THIS COVERAGE PART AT ITS INCEPTION:			
AA218	03/06	AA101	03/06
AA4228MO	08/08	CA0165	10/06
AA4093MO	06/13	AA4111MO	06/13
		AA296	07/12
		CA0219	03/03
		AA265	04/09
		AP401MO	11/13
		AA261MO	07/14
		AA4263	04/10

* This policy may be subject to final audit

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

INVOICE

Invoice No: 6859

SOLD TO

1-Apr-16

Lake Ozark/Osage Beach Joint Utility Board
c/o Karri 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: Apr-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) 443-0633

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: 6896

Invoice Date: 31-Mar-16

Customer No 20220

Terms: 30 days

REFERENCE	DESCRIPTION	AMOUNT
	Hauled Waste payment for the month of: Mar-16	
	44 Hauled Waste Load @ \$50.00 each	\$2,200.00
TOTAL DUE		\$2,200.00

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

Osage Beach, MO 65065

Terms: 30 days

REFERENCE	DESCRIPTION	AMOUNT
	Cole-Parmer Invoice - 50%	\$117.43
	GLW - 50%	\$208.50
	Raven Environmental Products, Inc. - 50%	\$89.98
TOTAL DUE		\$413.91



Invoice

Phone: 1-847-549-7600
Fax: 1-847-247-2929
Web: WWW.COLEPARMER.COM

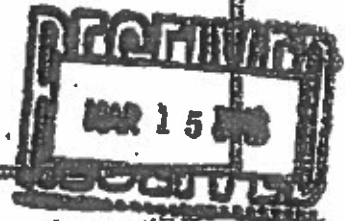
Page 1 of 2

Remittance Address	
13927 Collections Center Drive Chicago, IL 60693-0139	
Federal Tax ID	DUNS #
36-2360953	00-885-2253

Billing Address 645024-02
ALLIANCE WATER RESOURCES ACCOUNTS PAYABLE PO BOX 1985 LAKE OZARK, MO 65049-1985

Invoice #	PO #
9537356	GHUTCHCRAFT03072016
Invoice Date	Invoice Amount
03/07/2016	\$234.87
Reference #	Terms
7831848-00	Net 30 Days

Shipping Address 645024-01
ALLIANCE WATER RESOURCES GARY HUTCHCRAFT 3 ANDERSON RD LAKE OZARK, MO 65049 U.S.A.



Shipping Info: SHIPPED 03/07/2016, FDX.GND, 1 CARTON(S), 2 lbs TOTAL WEIGHT, TRACKING NUMBER(S): 9613019060055585739403

Invoice Comments: Service Return: 602120139

Line	Qty Ord	UOM	Item#	Description	Shipped	Back- Ordered	Unit Price	Extended Price
1.	1	EA	99999-82	THERMOMETER 20-110C Serial Number(s): J90733 NIST TRACEABLE CALIBRATION 1 YR INTERVAL CAL: 0, 4, 20, 37, 44.5, 103C SERIAL#: J90733	1			N/C
2	1	EA	17006-05	NIST CERT GLASS THERM 5-9PTS NON-CANCELABLE/NON-RETURNABLE	1		221.000	221.00

GL Acct#:	6705-20 117.44	1220-20 117.43	SUB-TOTAL	221.00
Signature:	<i>Gary Hutchcraft</i>		FREIGHT AMOUNT	13.87
Date:	3/15/16		TAX AMOUNT	.00
			OTHER CHARGES	.00
			PLEASE PAY THIS TOTAL AMOUNT	\$234.87
			DUE DATE	04/06/2016

NOTES:

ORDER PLACED BY GARY HUTCHCRAFT, PHONE # 573-365-0455

Would you like to receive your invoices via email or fax rather than a hard copy through the mail? If so, just contact Kevin Reese by phone 888-358-4714 x490217 or by email at kevin.reese@coleparmer.com with your preferred fax number or email address.

FOR COMPLETE LIST OF APPLICABLE TERMS PLEASE VISIT US AT
WWW.COLEPARMER.COM/TERMS



GLW
536 Co. Rd. 501
Jefferson City, MO 65101
Telephone 573-680-3957

REPAIR ORDER

QTY	PART NO.	DESCRIPTION	LIST	SALE AMOUNT
		Sand & Seal Blasting		45.00
		Roll Pin		7.00
		Roll Pin		1.00
RECEIVED APR 16 1968				
GL Acct# 10205-21700-10 1800-00 300650				
Signature: <i>Paul A. ...</i>				
Date: 3/16/68				
ADDITIONAL PARTS SEE LIST ON BACK: →				
PARTS TOTAL → 53.00				
OUTSIDE WORK PRICE				
OUTSIDE WORK TOTAL →				
NAME: <i>Alvin ...</i>				
ADDRESS: <i>...</i>				
CITY: <i>...</i> PHONE: <i>...</i> TRUCK NO.: <i>...</i>				
MAKE: <i>...</i> MODEL: <i>...</i> YEAR: <i>...</i> SER. NO.: <i>...</i> MTR. NO.: <i>...</i>				
OPER. NO. <i>...</i> REPAIR ORDER INSTRUCTIONS: <i>Repair Work on Motor, Valve, Gear Box</i>				
LABOR CHARGE				
F.S. PHONE WHEN READY YES ☐ NO ☐				
TOTAL LABOR 320.00				
TOTAL PARTS 53.00				
MACHINE EARNINGS 40.00				
OIL & GREASE				
GEAR LUBE @				
OIL @				
TAX 3.17				
TOTAL AMOUNT 416.17				

Raven Environmental Products, Inc.

FED ID 43-1553812

Invoice

448 E. Clinton Place
Suite B
St. Louis, MO 63122 USA
Sales 800-545-6953 Fax (314) 822-9968

Date Invoice #

3/8/2016 25119

Terms Net 30

Bill To

Ship To

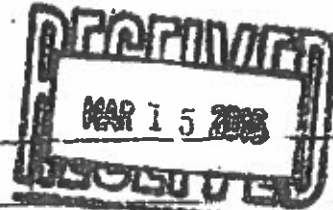
Alliance Water Resources
Lake of the Ozarks Regional WWTP #1
PO Box 1985
Lake Ozark, MO 65049

Alliance Water Resources
Lake of the Ozarks Regional WWTP #1
#3 Anderson Rd.
Lake Ozark, MO 65049

Customer Phone 573-365-0455

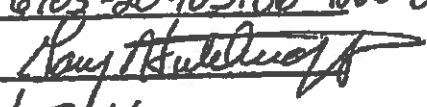
Customer Fax

Customer E-mail ghutchcraft@alliancewater.com



Sales Order #	P.O. Number	Buyer	Ship Date	Ship Via	FOB
12450	Gary Verbal	G. Hutchcraft	3/7/2016	UPS	Ship Dock

Part #	Description	Line	Ship Date	Ordered	Prev. Invoiced	Invoiced	Rate	Amount
B-10104-24	CORETAKER 24 foot core sampler			1	0	1	152.00	152.00T
	Subtotal							152.00
Shipping	Shipping			1	0	1	27.95	27.95

GL Acct#: 6705-20[#]103.06 1220-20[#]89.98Signature: 

4020

Date: 3/15/16

Subtotal \$179.95

We now accept

VISA
Mastercard
American
Express

Sales Tax (8.613%) \$13.09

Total \$193.04

Payments/Credits \$0.00

Balance Due \$193.04

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

Account Number	Account Name	3/31/2016				2015 March Revenue	Percent YTD
		2014 Actual	2015 Actual	2016 Budget	2016 Actual as of 3/31/2016		
3020	Osage Beach	464,343.06	477,172.03	473,000.00	117,454.39	39,841.53	25%
3010	Lake Ozark	85,716.93	72,827.98	77,000.00	20,045.61	5,991.80	28%
3100	Interest	31.18	54.79	45.00	20.09	6.89	37%
3060	Waste Haulers' Fee	34,340.00	32,400.00	35,000.00	7,200.00	4,400.00	22%
Total Operating Fund		584,431.17	582,454.80	585,045.00	144,720.09	50,240.22	25%
E/R Fund Income		1,025.06	884.81	1,000.00	181.14	57.10	20%
TOTAL INCOME		585,456.23	583,339.61	586,045.00	144,901.23	50,297.32	25%

**MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
3/31/2016**

Account Number	Account Name	2014 Actual	2015 Actual	2016 Budget	2015 Actual as of 3/31/2016	2015 March Expenses	Percent YTD
4000	Equipment Replace Fund	41,606.04	41,606.04	41,606.04	10,401.51	3,467.17	25%
4010	ERF Repayment	0.00	0.00	0.00	0.00	0.00	
4020	*Maintenance & Repair	58,873.44	31,014.36	114,500.00	2,105.22	1,553.27	7%
4140	Insurance	16,502.00	16,306.00	17,000.00	0.00	0.00	0%
4150	***Vehicle Repair/Maint	9,186.16	1,508.78	8,000.00	101.64	0.00	7%
4160	Haulers Fees to Contractor	8,000.00	8,000.00	8,000.00	1,400.00	300.00	18%
4170	Contract Management	288,445.08	296,233.08	305,120.00	75,909.72	25,303.24	26%
4185	Electric	70,366.40	76,751.19	77,000.00	11,249.43	3,613.18	15%
4200	Audit	1,900.00	2,000.00	2,100.00	0.00	0.00	0%
4220	Professional Service	43,038.41	2,359.99	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	475,789.44	670,326.04	101,167.52	34,236.86	21%
	**E/R Expenses	9,429.93	1,869.72	25,500.00	1,830.00	1,830.00	98%
	TOTAL EXPENSES	547,347.46	477,659.16	695,826.04	102,997.52	36,066.86	22%
**Equipment & Replacement							
Normal E/R		10,000.00					500.00
Replace impellers for RAS pumps		8,500.00					5,000.00
Rebuild Arm Support Clarifier #2		5,000.00					8,000.00
Replace doors		2,000.00	X				8,000.00
		<u>25,500.00</u>					2,000.00
***Vehicle Repair/Maint							
Vehicle Maintenance		3,000.00					1,000.00
Tires for Sludge Truck		5,000.00					80,000.00
		<u>8,000.00</u>					<u>114,500.00</u>
*Maintenance & Repair							
Auto Dialer Yrly Software Fee							
Hazardous Location Cooling Unit for UV Rm							
Normal Maintenance							
UV Spare Parts							
Rock for Road							
Strip and refinish tile in Admin Bldg							
#1 Aeration Basin grit removal							

OPERATING FUND INCOME AND EXPENSE SUMMARY
3/31/2016

Beginning Balance	206,750.49
Income - Osage Beach	39,841.53
Income - Lake Ozark	5,991.80
Income - Other	0.00
Income - Waste Haulers' Fees	4,400.00
Interest - Checking	6.89
Income - CD Interest	0.00
Transfers From E/R Fund	0.00
Transfers to E/R fund	-3,467.17
Expenses	-30,769.69
Ending Fund Balance	222,753.85
NOW Account - Central Bank	172,753.85
CD St. Elizabeth, 3/17 #400886	50,000.00
Outstanding Checks:	0.00
Deposit in Transit:	0.00
	222,753.85

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
3/31/2016

Beginning Balance	455,946.49
Interest - Checking	57.10
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	459,470.76
NOW Account - First Bank	108,469.50
CD Providence Bank, 10/16 #1268880	200,047.87
CD First Bank of the Lake, 01/17 #101318429	100,953.39
CD St. Elizabeth, 3/17 #485431	50,000.00
Deposit in Transit	0.00
Outstanding Checks:	0.00
	459,470.76



Central Bank
of Lake of the Ozarks

MEMBER FDIC

P.O. Box 4500, Jefferson City, MO 65102
(314) 348-2761

Fee changes effective April 1, 2016
Account Activity/Instant Stmt \$4.00
Collection of Draft or Check \$25.00
Paper Statement fee \$3.00

RETURN SERVICE REQUESTED

AV 01 005378 16402B 15 A**5DGT

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

Period 03/01/2016 - 03/31/2016 Page 1 of 3

Web Address
www.cbolobank.com

M

Your Financial Summary on March 31, 2016

	Bank Deposits		Totals
Bank Deposit Accounts:			
Checking	\$ 172,753.85		
Bank Deposit Total		\$	172,753.85
Total Assets:	\$ 172,753.85	\$	172,753.85

Detailed Explanation of Account Balances and Other Assets

Basic Plus Interest Checking

No. 000007297	Beginning Balance February 29, 2016	\$	210,217.66
Deposits			
Mar 02	Deposit		2,100.00
Mar 18	Deposit		700.00
Mar 18	Deposit		5,991.80
Mar 18	Deposit		39,841.51
Mar 24	Deposit		1,600.00
Mar 31	Interest Earned		6.09
	Total	+\$	50,240.22
Checks			
Check No.	Date Paid	Amount	Check No. Date Paid Amount
3497	Mar. 24	3,467.17	3506 Mar. 21 381.29
3502	Mar. 24	3,467.17	3507 Mar. 22 3,613.18
3503	Mar. 21	25,303.24	3508 Mar. 24 1,171.98
3505	Mar. 21	300.00	3509 Mar. 21 50,000.00
	Total		\$ 87,704.03
	Ending Balance March 31, 2016	\$	172,753.85

Number of days since last statement/interest cycle 31
Beginning and ending dates for calculation of statement/interest cycle are 03/01/2016 through 03/31/2016
Average collected balance 203,280.00
Interest rate 0.04%
Annual percentage yield earned 0.04%

Operating Fund

CHECK REGISTER - JOINT SEWER BOARD OPERATION FUND

	reconciled balance 12/31/15				179,201.28
3492	Ameren MO	X	4,412.83		174,788.45
3493	Equipment Replacement Fund	X	3,467.17		171,321.28
3494	Alliance Water Resources, Inc.	X	25,303.24		146,018.04
3495	Alliance Water Resources, Inc.	X	591.09		145,426.95
	Deposit LO	X	-	6,613.41	152,040.36
	Deposit OB	X		39,219.93	191,260.29
	Deposit	X		2,200.00	193,460.29
	Interest	X		6.72	193,467.01
	reconciled balance 1/31/16				193,467.01
3496	Ameren MO	X	3,223.42		190,243.59
3497	Equipment Replacement Fund	X	3,467.17		186,776.42
3498	Alliance Water Resources, Inc.	X	25,303.24		161,473.18
3499	Alliance Water Resources, Inc.	X	1,100.00		160,373.18
3500	VOID	X			160,373.18
3501	Alliance Water Resources, Inc.	X	62.50		160,310.68
	Deposit LO	X	-	7,440.40	167,751.08
	Deposit OB	X		38,392.93	206,144.01
	Deposit	X		600.00	206,744.01
	Interest	X		6.48	206,750.49
	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	-	173,685.61
3508	Equipment Replacement Fund	X	1,171.98	-	172,513.63
3509	Bank of St. Elizabeth	X	50,000.00	-	122,513.63
	Deposit LO	X	-	5,991.80	128,505.43
	Deposit OB	X		39,841.53	168,346.96
	Deposit	X		2,100.00	170,446.96
	Deposit	X		700.00	171,146.96
	Deposit	X		1,600.00	172,746.96
	Interest	X		6.89	172,753.85
	reconciled balance 3/31/16				172,753.85



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

536 00010 26
ACCOUNT:
DOCUMENTS:

101318411
5

PAGE: 1
03/31/2016

61

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

The following service charge increases will be effective February 1, 2016
Money Market monthly fee & excessive withdrawal fee increases to \$10 ea.,
Savings monthly fee increases to \$2ea and excessive withdrawals to \$1 ea.
and Foreign ATM fee increases to \$2.

BUSINESS MMDA ACCOUNT

LAST STATEMENT 02/29/16 151,478.06
4 CREDITS 8,163.42
2 DEBITS 51,171.98
THIS STATEMENT 03/31/16 108,469.50

DEPOSITS
REF #.....DATE.....AMOUNT REF #.....DATE.....AMOUNT REF #.....DATE.....AMOUNT
03/23 1,171.98 03/23 3,467.17 03/23 3,467.17

OTHER CREDITS
DESCRIPTION DATE AMOUNT
INTEREST 03/31 57.10

CHECKS
CHECK #..DATE.....AMOUNT CHECK #..DATE.....AMOUNT CHECK #..DATE.....AMOUNT
1014 03/03 1,171.98 1015 03/21 50,000.00

INTEREST
AVERAGE LEDGER BALANCE: 134,993.20 INTEREST EARNED: 57.10
AVERAGE AVAILABLE BALANCE: 134,470.21 DAYS IN PERIOD: 31
INTEREST PAID THIS PERIOD: 57.10 ANNUAL PERCENTAGE YIELD EARNED: .50%
INTEREST PAID 2016: 181.14

*** CONTINUED ***

JSB - CHECK REGISTERS 2016

CHECK REGISTER - JOINT SEWER BOARD EQUIPMENT REPLACEMENT FUND

				reconciled balance 12/31/15	149,716.85
	Interest	X		59.62	149,776.47
	Deposit	X		3,467.17	153,243.64
	reconciled balance 1/31/16				153,243.64
	Interest	X		64.42	153,308.06
1013	Check	X	1,830.00		151,478.06
	Deposit	0		3,467.17	154,945.23
	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		1,171.98	155,002.33
	Deposit	X		3,467.17	158,469.50
1015	Bank of St. Elizabeth	X	50,000.00		108,469.50
	reconciled balance 3/31/16				108,469.50



**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

IOWA

Maquoketa
Tipton

KENTUCKY

South Fulton

REPORT OF OPERATIONS

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

Month of March 2016

Submitted by Alliance Water Resources, Inc. for the

April 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	2.1	1.9	NA	0		0.04	<5.0	0
Peak Day	2.4	3.0	8.0	0		0.06	<5.0	0
Percent Removal	99.0	99.1	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		2.7	10	4.0
Weekly Average	45	45		630				
Daily Max						10.6	15	8.1

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.066 MGD or 36% 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 60063 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 0 tanker loads of bio-solids during the month equivalent to a total of 0 gallons and 0 pounds dry weight solids.

0 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 589,375 gallons with a level of 6.0 feet in Tank 1 and 5.5 feet in Tank 2.

WASTEHAULERS

The plant received 44 loads of septage during the month totaling 110,000 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.
- We installed the UV banks back in the effluent channel on the 14th in preparation for the April 1st disinfection season. We ran a process control E-coli test on the 24th of March and the results were a 0 count/100mls or <20, which is what we would report.

WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Antero Maintenance Data Management schedule. (New version of Operator 10 Software)
- We took clarifier #2 offline on the 2nd of March for annual inspection/maintenance and put it back online on the 4th.
- We took clarifier #1 offline on the 7th of March to take the head pressure off the #2 inlet RAS valve so we could pull the actuator off and had it back online that afternoon. We didn't have the proper tools to do the work, so we called in a machinist to assist us. We figured out what was needed and contacted the factory rep and ordered the parts on the 11th but didn't get the parts until April 1st.
- We noticed that the automatic part of the ducking skimmer arm wasn't working properly on the 13th of March, so we called the electrician that had worked on it before to come out and assist us with troubleshooting it. He found that a control transformer and contactor in the actuators cover had gone bad. He ordered the parts and came back on the 1st of April and got it back in service.
- We noticed over the weekend of the 20th of March that the furnace was not working properly so we called Controlled Heating and Cooling and they sent a tech out on the 21st. He found that the exhaust pipe fitting on the top of the furnace was leaking water that ran down the inside causing the HI/LO pressure switch to go bad. They ordered the parts and got them installed the next day.
- We took the Kubota zero turn mower in for annual service on the 18th of March and received it back on the 23rd.
- We changed out 2 UV bulbs on the 22nd, one original Wedeco that had over 18,000 hours and one UV Doctor bulb that had over 10,000 hours, which is the warranty limit.

SAFETY

- We conducted our monthly routine Safety Meeting on Back/Lifting Safety on the 2nd of March.

REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the EDMR on MDNR website on the 6th of April.
- We received the first quarter 503 regs lab results on the 4th of April. (see attachment)

MISCELLANEOUS AND RECOMMENDATIONS

- We solicited 3 bids for some UV spare parts. (see attachment)



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

Bidder	Budget	Price each	Purchase Amount & Total
John Henry Foster	\$8,000.00	Parker Origa Cylinder OSP	6 - \$3,837.54
		Misc. Compressor parts	\$621.00
		Quartz Sleeves	No Bid
			Total - \$4,458.54
Xylem Inc. (Wedeco)	"	Parker Origa Cylinder OSP	6 - \$9,300.00
		Misc. parts/brushes	\$1,000.00
		Quartz Sleeves - \$135.00 ea	12 - \$1,620.00
			Total - \$1,000.00
UV Doctor	"	Parker Origa Cylinder OSP	No Bid
		Misc. parts/brushes	No Bid
		Quartz Sleeves - \$120.00 ea	12 - \$1,440.00
			Total - \$1,440.00
Total from JHF, Xylem & UV Doctor			\$6,898.54

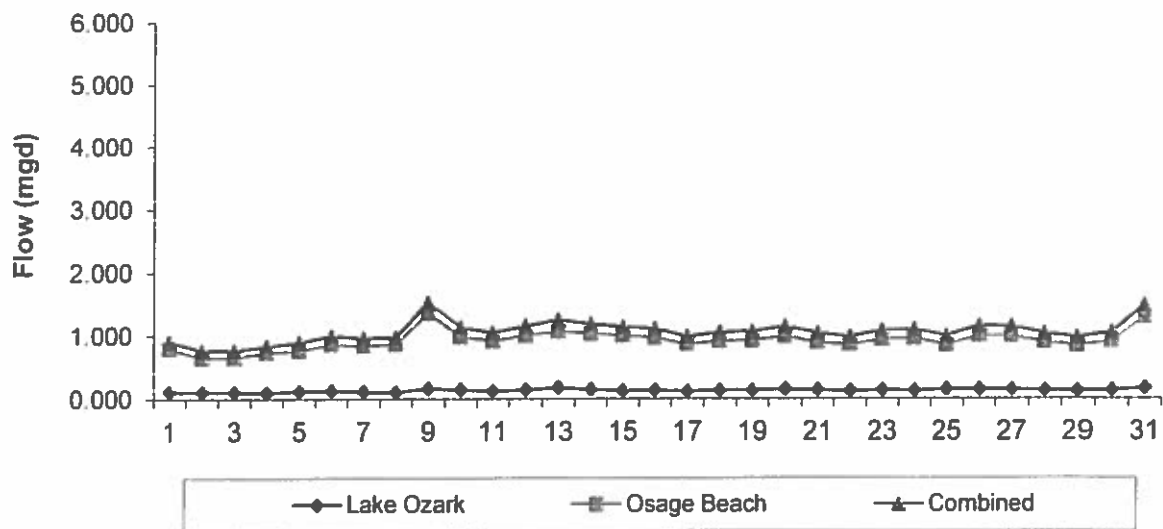
Freight is not included

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF March 2016

DATE		FLOW					BOD 5 MG/L			TSS MG/L		
	RAIN FALL IN.	LO mgd	OB mgd	COMB mgd	% LO	% OB	LO mg/l	OB mg/l	COMB mg/l	LO mg/l	OB mg/l	COMB mg/l
1-Mar	0	0.117	0.797	0.914	12.8	87.2						
2-Mar	0	0.111	0.658	0.769	14.4	85.6						
3-Mar	0	0.112	0.658	0.770	14.5	85.5						
4-Mar	0	0.106	0.733	0.839	12.6	87.4	193	275	218	160	214	184
5-Mar	0	0.127	0.774	0.901	14.1	85.9						
6-Mar	0	0.135	0.869	1.004	13.4	86.6						
7-Mar	0	0.119	0.846	0.965	12.3	87.7						
8-Mar	0	0.113	0.871	0.984	11.5	88.5						
9-Mar	1	0.171	1.359	1.530	11.2	88.8						
10-Mar	0	0.148	0.992	1.140	13.0	87.0						
11-Mar	0	0.129	0.923	1.052	12.3	87.7	195	243	223	136	254	208
12-Mar	0.2	0.145	1.009	1.154	12.6	87.4						
13-Mar	0.25	0.182	1.073	1.255	14.5	85.5						
14-Mar	0.1	0.154	1.038	1.192	12.9	87.1						
15-Mar	0	0.130	1.010	1.140	11.4	88.6						
16-Mar	0	0.139	0.975	1.114	12.5	87.5						
17-Mar	0	0.123	0.864	0.987	12.5	87.5						
18-Mar	0	0.136	0.921	1.057	12.9	87.1	265	203	183	180	144	170
19-Mar	0.1	0.142	0.929	1.071	13.3	86.7						
20-Mar	0	0.153	0.994	1.147	13.3	86.7						
21-Mar	0	0.143	0.896	1.039	13.8	86.2						
22-Mar	0	0.124	0.860	0.984	12.6	87.4						
23-Mar	0	0.140	0.944	1.084	12.9	87.1						
24-Mar	0	0.131	0.964	1.095	12.0	88.0						
25-Mar	0	0.153	0.849	1.002	15.3	84.7	225	290	248	152	234	260
26-Mar	0	0.150	1.005	1.155	13.0	87.0						
27-Mar	0	0.146	1.002	1.148	12.7	87.3						
28-Mar	0.25	0.137	0.900	1.037	13.2	86.8						
29-Mar	0	0.127	0.846	0.973	13.1	86.9						
30-Mar	0	0.137	0.917	1.054	13.0	87.0						
31-Mar	1.2	0.171	1.309	1.480	11.6	88.4						
SUM	3.1	4.251	28.785	33.036								
AVG		0.137	0.929	1.066	13	87	220	253	218	157	212	206
NOTE: BOLD PRINT INDICATES WEEKEND DAYS												

**Daily Flow
Figure 1**



**Effect of Rainfall on Flow
Figure 2**

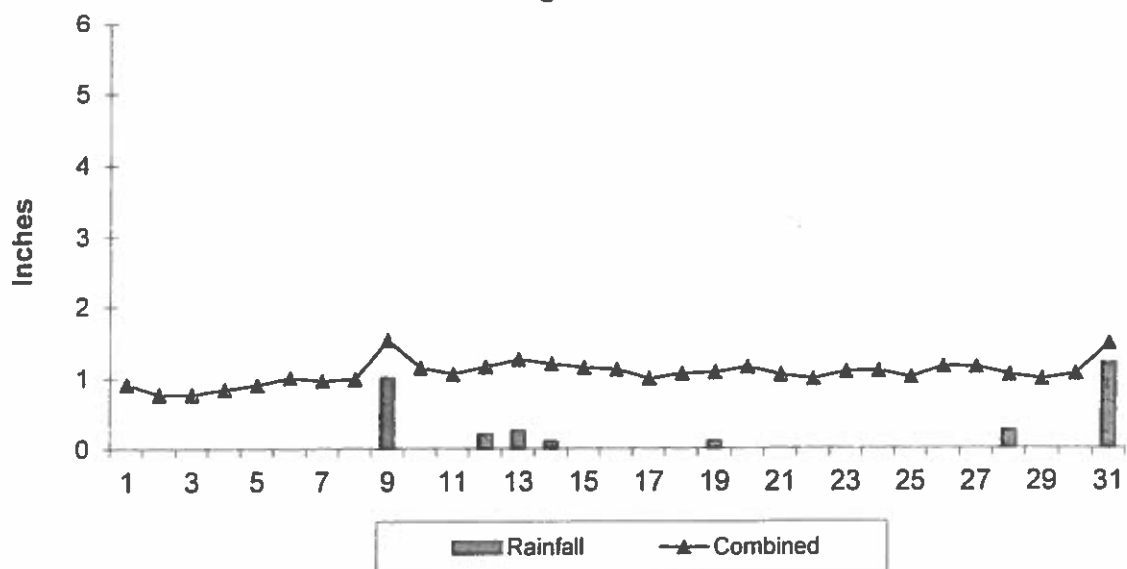


TABLE B
JOINT SEWER BOARD
Monthly Flows

<u>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%
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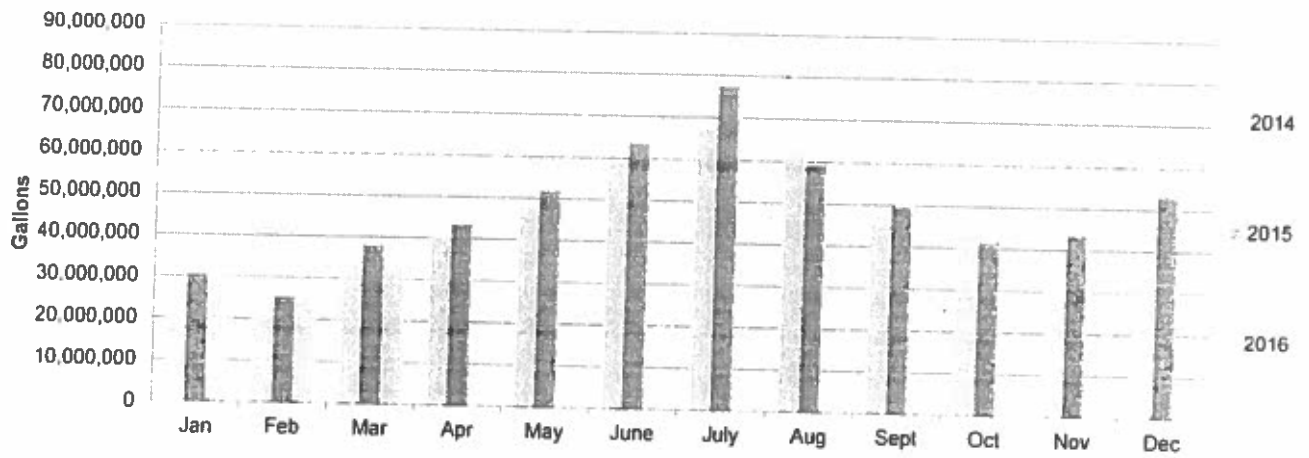
<u>2015</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	0.9	26,319,000	87%	4,085,000	13%	30,404,000	100%
February	1.4	21,892,000	86%	3,465,000	14%	25,357,000	100%
March	4.5	32,996,000	87%	4,920,000	13%	37,916,000	100%
April	4.0	37,220,000	86%	5,945,000	14%	43,165,000	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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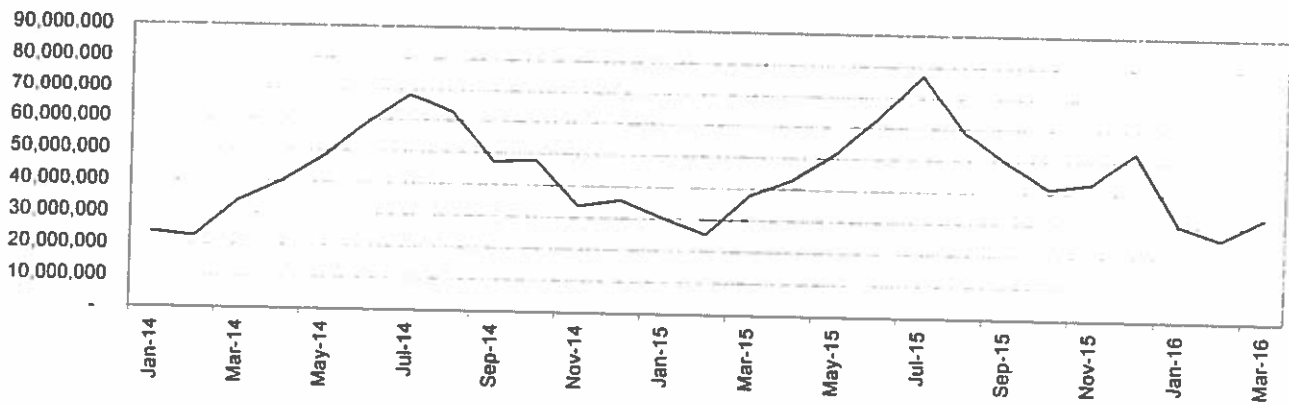
<u>2016</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	0.8	26,604,000	87%	4,001,000	13%	30,605,000	100%
February	0.8	22,444,000	86%	3,661,000	14%	26,105,000	100%
March	3.1	28,785,000	87%	4,251,000	13%	33,036,000	100%
April							
May							
June							
July							
August							
September							
October							
November							
December							

4.7	77,833,000	87%	11,913,000	13%	89,746,000	100%
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Monthly Influent Flow
Figure 3A

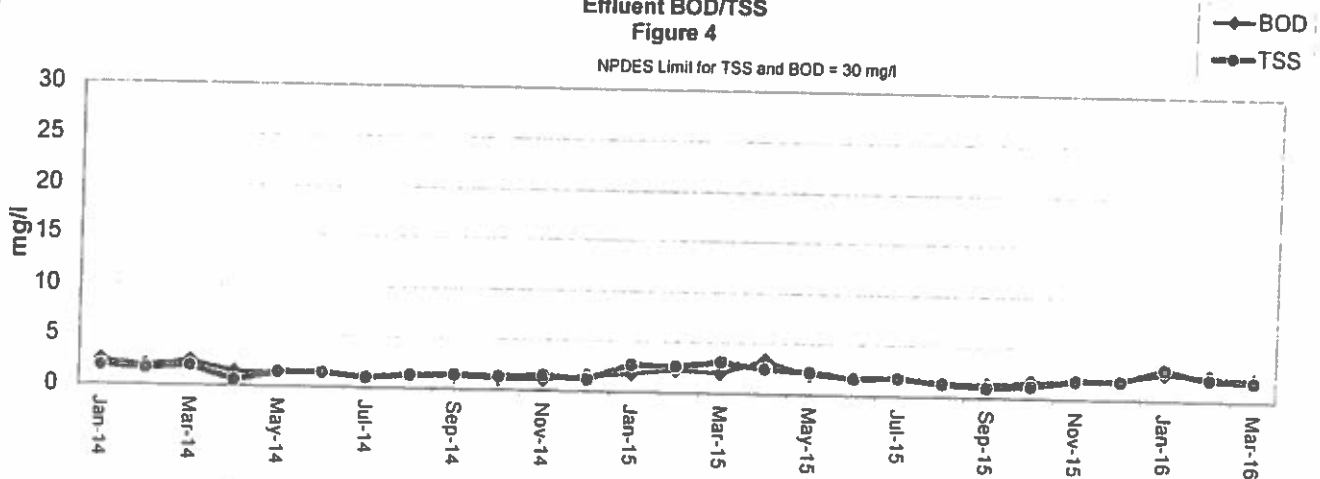


Monthly Influent Flow
Figure 3B

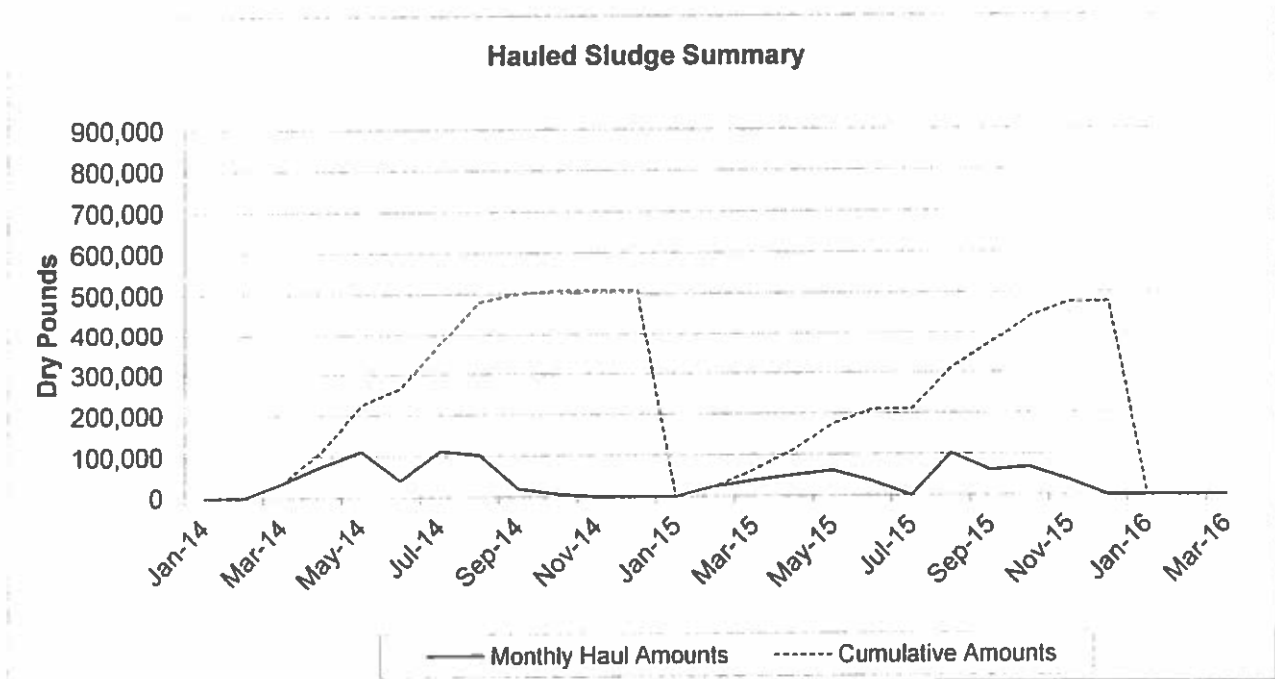
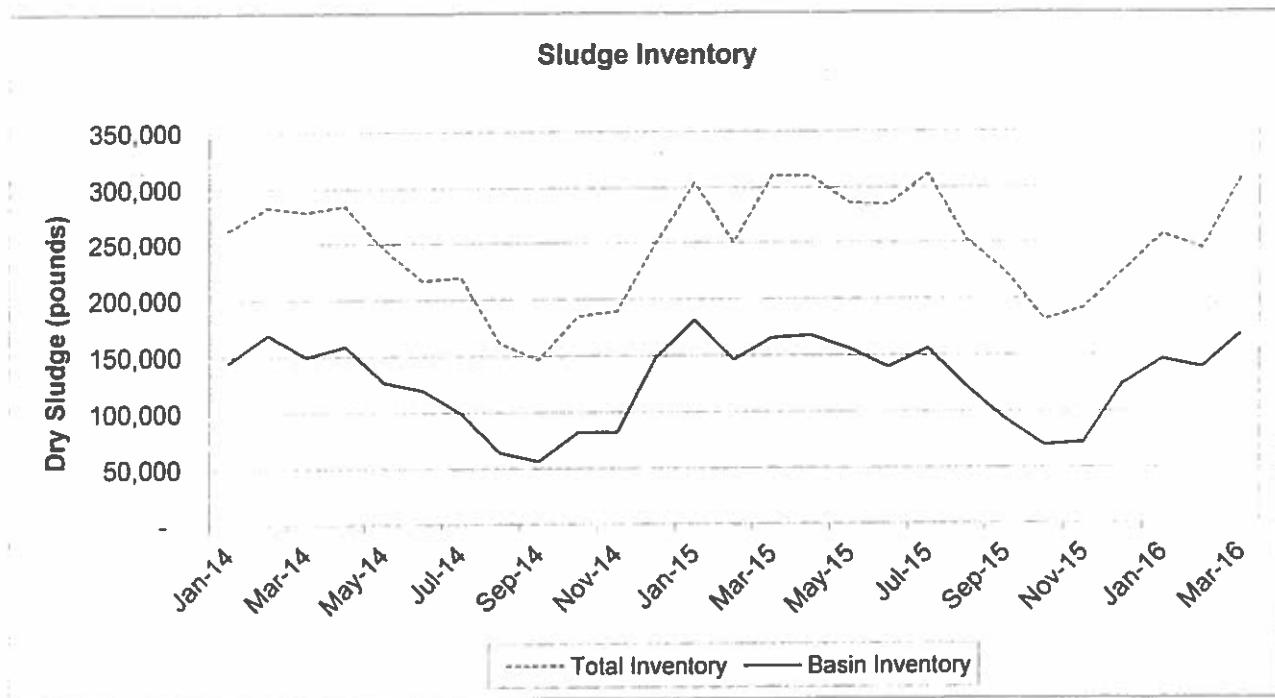


Effluent BOD/TSS
Figure 4

NPDES Limit for TSS and BOD = 30 mg/l



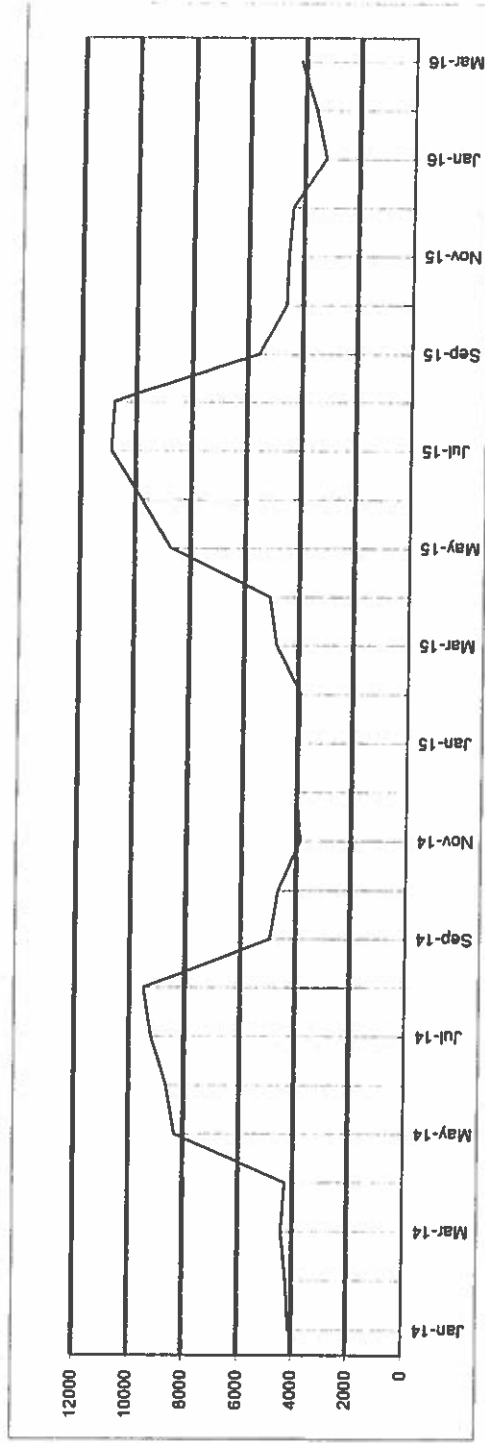
Loads	Gallons	Hauled Sludge		Basin Depths				Blanket Depths				Blanket and MLSS Inventory				Accepted Septage			
		# Dry	% Solids	Tank #1	Tank #2	AB #1	AB #2	# Dry	Gallons	MLSS AB #1	MLSS AB #2	# Dry	% Solids	MLSS	Sludge Inventory	Loads	Gallons		
Jan-14	0	-	0	4.0	5.0	0.0	405,000	145,241	2.0	2.5	0.0	3,690	3,679,929	117,392	0.00383	262,833	22	54,500	
Feb-14	0	-	0	5.0	5.5	0.0	472,500	169,448	1.5	2.5	0.0	3,410	4,030	113,894	0.00372	283,341	6	15,000	
Mar-14	29	107,300	35,703	5.0	5.0	0.0	450,000	149,733	0.5	0.5	0.5	4,270	3,639,476	129,001	0.00425	278,734	35	90,500	
Apr-14	65	240,500	77,176	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	30	75,000
May-14	96	355,200	111,613	5.5	3.5	0.0	405,000	127,261	1.0	2.0	2.0	3,550	4,040	3,740,142	118,377	0.0038	245,638	24	60,000
Jun-14	41	151,700	40,455	4.5	5.5	0.0	450,000	120,005	3.0	2.0	2.0	3,530	3,775,666	96,986	0.00308	216,991	26	61,000	
Jul-14	117	432,900	112,292	6.5	3.1	0.0	382,500	99,219	5.0	1.5	1.5	4,030	3,610	3,780,595	120,445	0.00382	219,864	44	111,500
Aug-14	107	395,900	102,973	5.5	0.0	0.0	247,500	64,374	1.0	1.0	1.0	3,690	3,678,952	97,110	0.00317	161,484	55	129,000	
Sep-14	17	82,900	19,811	3.8	3.1	0.0	180,000	56,893	0.0	1.5	1.0	2,670	3,210	3,670,071	89,989	0.00294	146,682	37	92,500
Oct-14	5	18,500	6,769	4.4	4.4	0.0	225,000	82,566	0.0	1.5	2.0	2,990	3,620	3,713,499	102,358	0.00331	184,927	33	78,500
Nov-14	0	-	0	4.0	1.0	0.0	405,000	148,619	0.0	2.0	2.0	3,630	3,678,952	106,775	0.00348	189,341	20	50,000	
Dec-14	0	-	0	5.5	5.5	0.0	495,000	181,645	0.0	2.0	2.0	3,900	3,671,048	101,516	0.00327	250,135	18	40,000	
Jan-15	20	74,000	24,069	6.0	4.0	0.0	450,000	146,365	1.0	1.0	0.0	3,590	3,635,524	104,150	0.00403	305,030	22	55,000	
Feb-15	34	125,800	38,603	5.5	6.5	0.0	540,000	165,704	2.0	2.0	2.0	4,250	3,740,142	144,890	0.00465	310,595	11	27,500	
Mar-15	44	182,800	50,607	6.0	6.0	0.0	540,000	167,861	2.5	2.0	1.0	5,040	3,723,357	142,532	0.00459	310,393	23	57,500	
Apr-15	55	203,500	61,264	5.5	6.0	0.0	517,500	155,845	1.5	2.0	4.0	4,030	3,635,678	130,204	0.00407	286,049	26	65,000	
May-15	35	126,500	35,024	8.0	3.5	0.0	517,500	139,861	2.0	1.0	3.0	4,530	3,783,570	144,837	0.00459	284,798	37	92,500	
Jun-15	0	-	0	6.5	6.5	0.0	585,000	156,125	1.0	2.0	1.0	4,680	3,696,714	156,157	0.00507	312,282	42	104,000	
Jul-15	107	395,900	102,356	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	44	110,000
Sep-15	55	203,500	60,420	5.5	1.5	0.0	315,000	93,525	1.0	1.0	1.0	4,480	3,678,952	130,400	0.00425	223,925	32	80,000	
Oct-15	59	218,300	67,849	4.0	3.7	0.0	225,000	70,034	1.0	1.0	1.0	3,310	3,920	3,678,952	110,917	0.00362	180,952	22	55,000
Nov-15	30	111,000	47,606	3.0	2.0	0.0	225,000	72,434	1.0	3.0	1.0	3,440	4,430	3,714,476	118,803	0.00364	191,237	19	47,500
Dec-15	0	-	0	4.5	4.0	0.0	382,500	124,412	2.0	0.5	1.5	4,460	1,940	3,709,547	99,000	0.0032	223,412	21	52,500
Jan-16	0	-	0	5.0	5.0	0.0	450,000	146,367	0.5	0.5	0.0	3,760	3,617,762	111,184	0.00369	257,551	22	55,000	
Feb-16	0	-	-	6.0	3.5	0.0	427,500	139,049	1.0	1.0	0.0	3,210	3,730	3,635,524	105,211	0.00347	244,260	6	15,000
Mar-16	0	-	0	6.0	5.5	0.0	517,500	168,322	2.0	2.0	1.0	4,570	4,320	3,714,476	139,249	0.0045	307,571	44	110,000



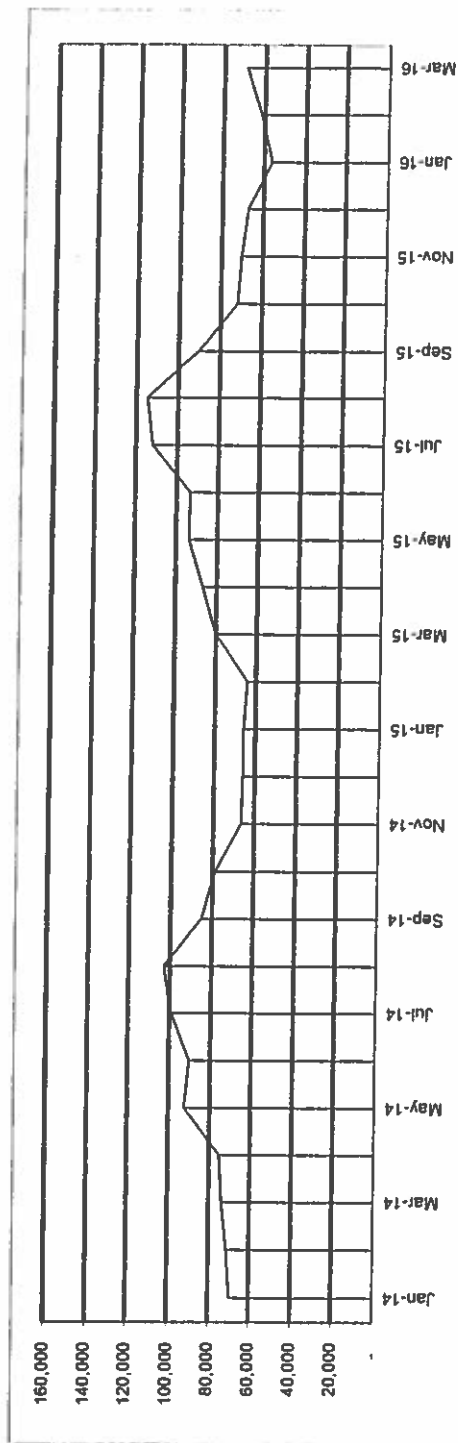
Electric Cost Kilowatts Used

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

Electric Cost



Kilowatts Used





**MISSOURI DEPARTMENT OF NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL QUALITY**

Discharge Monitoring Report For Municipal Wastewater Treatment Plants

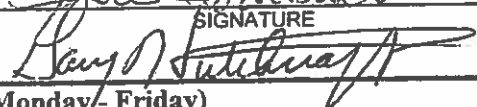
NAME OF FACILITY						LOCATION ADDRESS & CITY							COUNTY/REGION	
Lake of the Ozarks Regional WWTP #1						#3 Anderson Road							Miller/SWRO	
MONTH/YEAR		PERMIT NUMBER				OUTFALL NUMBER		TYPE TREATMENT FACILITY						
Mar-16		MO-0103241				#001		Oxidation Ditch/UV/Sludge Holding-sludge is land applied						
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	7.3			11.0	1.394	7.9				5.9		10.5		
2	7.3			10.9	1.309	7.8				7.5		10.1		
3	7.3			11.1	1.444	7.8			0.02	6.6		10.8		
4	7.4	218	184	11.2	1.595	7.8	2.4	2.4		7.0		10.0	98.9	98.7
5	7.5			11.5	1.104	7.9				7.2		10.2		
6	7.3			11.8	1.441	7.9				7.2		10.9		
7	7.3			13.6	1.358	7.8				7.4		13.2		
8	7.4			14.5	1.372	8.0				6.7		14.8		
9	7.3			13.5	1.877	7.8				6.0		13.8		
10	7.2			13.8	1.595	7.9			0.05	6.2		13.7		
11	7.4	195	208	13.1	1.580	7.8	2.2	3.0		6.0		13.4	98.9	98.6
12	7.4			12.6	1.528	7.8				6.3		13.3		
13	7.3			13.7	1.729	7.9				6.2		13.7		
14	7.4			13.6	1.633	7.9				5.8		14.1		
15	7.3			14.5	1.584	7.9				5.9		15.1		
16	7.4			13.0	1.432	7.9				6.0		14.3		
17	7.4			13.2	1.459	7.9			0.03	6.3		13.4		
18	7.4	183	170	13.7	1.538	7.9	1.6	0.8		6.0		13.2	99.1	99.5
19	7.4			13.1	1.582	7.9				6.3		12.9		
20	7.5			12.8	1.770	7.9				6.5		12.7		
21	7.4			11.7	1.617	7.9				6.4		11.3		
22	7.4			13.3	1.472	7.9				6.3		11.6		
23	7.4			14.0	1.407	7.9				6.2		13.0		
24	7.4			13.2	1.480	7.9			0.02	6.4		13.7		
25	7.4	248	260	12.2	1.556	7.8	2.0	1.2		6.1		12.6	99.2	99.5
26	7.4			13.3	1.576	7.9				6.2		12.5		
27	7.2			12.8	1.588	7.8				6.3		12.8		
28	7.2			12.4	1.619	7.8				6.3		12.3		
29	7.4			13.1	1.479	7.8				6.3		12.1		
30	7.4			13.9	1.392	7.9				6.1		12.8		
31	7.3			14.5	1.902	7.8			0.06	5.2		14.5		
Total					47.412									
Avg		211	206	12.9	1.529		2.1	1.9	0.04	6.3	0.0	12.7	99.0	99.1
Min	7.2	183	170	10.9	1.104	7.8	1.6	0.8	0.02	5.2	0.0	10.0	98.9	98.6
Max	7.5	248	260	14.5	1.902	8.0	2.4	3.0	0.06	7.5	0.0	15.1	99.2	99.5

MONTHLY EFFLUENT MONITORING		QUARTERLY EFFLUENT MONITORING	
DATE	Oil & Grease mg/L	Selenium µg/L	Zinc µg/L
1	< 5.0		
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
31			
Total			
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		1.3	3,270	360	10.3	1.5	3,380	430	10.2	40	0	7:30
2		1.2	3,330	490	9.5	2.5	3,330	490	9.6	32	0	7:30
3		1.5	3,430	380	10.5	2.4	3,030	350	10.4	45	0	7:30
4		1.4	2,700	300	10.3	1.6	3,920	450	10.2	43	0	7:30
5		1.8	3,590	440	10.7	2.4	3,120	370	10.6	41	0	7:30
6		1.4	4,050	450	10.7	1.8	3,090	350	10.8	41	0	7:30
7		1.4	3,390	440	13.3	1.5	3,900	530	12.8	60	0	7:30
8		1.2	3,080	300	14.8	1.3	4,230	500	14.8	63	0	7:30
9		0.9	3,310	400	14.1	1.1	3,550	400	13.8	55	1	7:30
10		2.2	5,180	650	13.8	3.4	3,480	400	13.6	54	0	7:30
11		1.1	4,180	530	13.6	1.4	4,280	470	13.3	42	0	7:30
12		1.4	3,220	470	13.4	1.4	4,070	530	13.4	53	0.2	7:30
13		1.3	4,660	600	14.2	1.3	3,550	400	14.1	58	0.25	7:30
14		1.0	4,650	600	14.5	1.4	3,720	400	14.3	56	0.1	7:30
15		1.7	4,590	550	15	1.4	3,580	440	14.8	52	0	7:30
16		1.0	4,530	590	14.2	1.3	3,500	420	14.1	47	0	7:30
17		1.4	4,840	510	12.8	1.8	3,660	480	13.3	38	0	7:30
18		1.5	4,630	600	12.9	2.8	3,460	400	13	43	0	7:30
19		1.7	4,270	600	11.1	2.6	3,560	580	11.3	33	0.1	7:30
20		1.9	4,420	640	10.4	2.8	3,720	520	10.3	36	0	7:30
21		1.5	4,330	600	11.1	1.7	3,870	590	11.3	31	0	7:30
22		2.1	3,770	470	11.8	2.4	4,590	730	11.8	51	0	7:30
23		1.4	3,250	380	13.4	1.5	4,790	740	13.2	59	0	7:30
24		1.6	3,590	440	13.4	1.7	4,440	690	13.5	50	0	7:30
25		1.4	4,460	650	12.1	1.5	3,360	520	11.9	41	0	7:30
26		1.6	4,730	700	12.4	1.9	3,480	400	12.3	40	0	7:30
27		1.6	4,250	710	13	1.7	3,340	420	12.9	47	0	7:30
28		1.6	3,960	560	12.8	1.6	3,920	610	11.9	33	0.25	7:30
29		2.2	4,150	530	11.9	2.3	4,000	570	12	38	0	7:30
30		2.0	4,090	540	12.3	2.1	3,930	590	12.4	59	0	7:30
31		1.3	4,670	600	15	1.3	4,320	550	14.8	57	1.2	7:30

COMMENTS:

TESTS PERFORMED BY (PRINT)	(SIGNATURE)	PHONE #	DATE
John Hornback		(573)365-0455	4/6/2016
REPORT APPROVED BY (PRINT)	(SIGNATURE)	PHONE #	DATE
Gary Hutchcraft		(573)365-0455	4/6/2016

*Required Daily (Monday- Friday)

**Required 1/week

DATE **MARCH** 2016

Use following abbreviations: K-yr, 5-years (5-yr), C-clear PC, newly clear

Prepared by: GIL FRIED

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

2015 - 2016

	October	November	December	January	February	March
L.O. Total MG	5.216	6.247	8.603	4.001	3.661	4.251
L.O. Peak MG	0.199	1.064	1.620	0.229	0.179	0.182
Avg. Daily MG	0.168	0.208	0.278	0.129	0.126	0.137
% Diff.	18%	412%	483%	78%	42%	33%
Rainfall Inches	1.8	10.8	11.7	0.8	0.8	3.0

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

2015 - 2016

	October	November	December	January	February	March
O.B. Total MG	36.230	37.047	44.392	26.604	22.444	28.785
O.B. Peak MG	1.313	4.154	6.489	1.119	1.052	1.359
Avg. Daily MG	1.169	1.235	1.432	0.858	0.774	0.929
% Diff.	12%	236%	353%	30%	36%	46%
Rainfall Inches	1.8	10.8	11.7	0.8	0.8	3.0

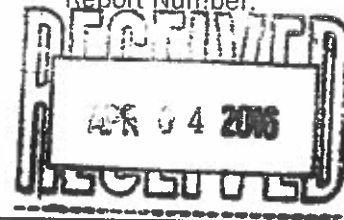
Environmental Analysis South, Inc

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:

135049



Report of Analysis

Reference:

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

Log Number:
1913924

Sample Description:
Quarterly Sludge

Sample Date:
3/1/2016

Sample Received Date:
3/2/2016

Coli S

Test Description	Result	Units	Method	Comment Code	Analysis Date	Analyst
Fecal Coliform in Sludge	121,000	CFU/g	SM-9222 D-97		03/02/16	102
Total Solids Average	4.02	% w/w	SM-2540 G-97		03/02/16	102

Nutrients

Test Description	Result	Units	Method	Comment Code	Analysis Date	Analyst
Phosphorus	30000	mg/Kg	SM-20 4500-P E-99		03/07/16	133

PAN Group

Test Description	Result	Units	Method	Comment Code	Analysis Date	Analyst
Ammonia Nitrogen, Distilled	10,200	mg/Kg	Lachat-10-107-06-1-K		03/08/16	102
Kjeldahl Nitrogen	48,200	mg/Kg	Lachat-10-107-06-2-K		03/08/16	102
Nitrate as Nitrogen	< 52	mg/Kg	EPA-300.0 Rev. 2		03/07/16	133
Nitrite as Nitrogen	< 52	mg/Kg	EPA-300.0 Rev. 2		03/07/16	133
Organic Nitrogen	38,000	mg/Kg	Lachat-10-107-06-2-K		03/08/16	102
PAN - Subsurface Application	17800	ppm	Calculation		03/10/16	127
PAN - Surface Application	14740	ppm	Calculation		03/10/16	127

Preparation Methods

Test Description	Result	Units	Method	Comment Code	Analysis Date	Analyst
Anions IC Sample Preparation	1	Prep	SM-4110B-00		03/02/16	133
Metals ICP Sample Digestion	1	Prep	EPA-200.7 Rev. 4.4	PDC	03/21/16	
Total Metals Flame-AA Digestion	1	Prep	EPA-200.2		03/07/16	133

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: 135049

Report of Analysis

Log Number: 1913924 Sample Description: Quarterly Sludge Sample Date: 3/1/2016 Sample Received Date: 3/2/2016

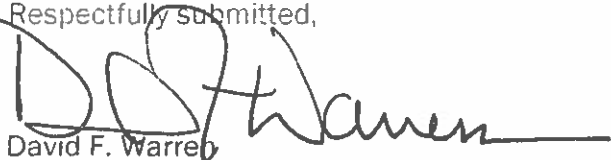
Solids

Test Description	Result	Units	Method	Comment Code	Analysis Date	Analyst
Total Solids	3.85	% w/w	SM-2540 G-97		03/04/16	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	03/21/16	
Cadmium	0.94	mg/Kg	SM-3111 B-99		03/17/16	133
Chromium	45.8	mg/Kg	SM-3111 B-99		03/17/16	133
Copper	487	mg/Kg	SM-3111 B-99		03/17/16	133
Lead by ICP	25	mg/Kg	EPA-200.7 Rev. 4.4	PDC	03/21/16	
Mercury by Cold-Vapor Technique	< 0.10	mg/Kg	SM-3112 B-99		03/04/16	133
Molybdenum by ICP	7.9	mg/Kg	EPA-200.7 Rev. 4.4	PDC	03/21/16	
Nickel	15.0	mg/Kg	SM-3111 B-99		03/17/16	133
Potassium	2600	mg/Kg	SM-3111 B-99		03/15/16	133
Selenium by ICP	4.2	mg/Kg	EPA-200.7 Rev. 4.4	PDC	03/21/16	
Zinc	876	mg/Kg	SM-3111 B-99		03/17/16	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

Environmental Analysis South
4000 East Jackson Blvd. * Jackson, MO 63755
Telephone (573) 204-8817 * Fax (573) 204-8818
ALLIANCE-LAKE OZARK

CHAIN OF CUSTODY RECORD

Client:

Address: P.O. Box 1985 / #3 ANDERSON RD.
City/State/Zip: LAKE OZARK, MO 65049
PO Number: N/A ☐ Rush Requested (Due Date: N/A)

Sampler's Signature:

Date: 3/1/16 Time: 2:40 ☐ See Table

Additional Comments:

[illegible]

Revised June 70 1000

FECAL COLIFORM IN SLUDGE

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

Log #

1913924

Date:

3/2/2016

Analyst:

102

Total Solid calculation

Sample	Sample Size	Tare Weight	Tare Wt. + Res.	Residue Wt.	Final Result
Replicate	(grams)	(grams)	(grams)	(grams)	(%w/w)
A	35.5630	1.9119	3.3434	1.4315	4.03
B	29.9227	1.9245	3.1268	1.2023	4.02
C	26.6655	1.9127	2.9825	1.0698	4.01
D	30.6703	1.9202	3.1630	1.2428	4.05
E	27.8684	1.9443	3.0634	1.1191	4.02
F	27.7664	1.9296	3.0566	1.1270	4.06
G	28.6593	1.9267	3.0612	1.1345	3.96
				Average Total Solid	4.02

Colony Counts

Date:

Analyst:

Sample	Wt. Of Sample	Sample Size	Colony Count	Final Count
Replicate	(grams)	(mls - 0.1, 1.0, 10)	used	#/gram (dry)
A	0.3645	1	13	88,500
B	0.3417	1	24	175,000
C	0.3291	1	18	136,000
D	0.3617	1	10	68,300
E	0.3792	1	16	105,000
F	0.3527	1	19	133,000
G	0.3824	1	29	192,000
Geometric Average				121,000

Approved by:



Environmental Analysis South, Inc.
Clarification Coagulant Sludges
Sludge Analysis

3/23/2016

Submitted by: Alliance Lake Ozarks					
Log Number: 1913924					
pH					
Coliform					
Parameter	Wet %	Wet ppm	Dry %	Dry ppm	lbs/dry tons
Moisture			96.15		
Solids			3.85		
Volatile Solids					
Ash					
Nitrogen (TKN)	0.186%	1855.700	4.820%	48200.000	96.400
Nitrate N	0.000%	0.000	0.000%	ND	0.000
Nitrite N	0.000%	0.000	0.000%	ND	0.000
Ammonia N	0.039%	392.700	1.020%	10200.000	20.400
Organic N	0.146%	1463.000	3.800%	38000.000	76.000
PAN Surface Application	0.057%	567.490	1.474%	14740.000	29.480
PAN Subsurface Application	0.069%	685.300	1.780%	17800.000	35.600
Potassium (as K)	0.010%	100.100	0.260%	2600.000	5.200
Phosphorus (as P)	0.116%	1155.000	3.000%	30000.000	60.000
Arsenic (as As)	ND	ND	ND	ND	ND
Cadmium (as Cd)	0.000%	0.036	0.000%	0.940	0.002
Chromium (as Cr)	0.000%	1.763	0.005%	45.800	0.092
Copper (as Cu)	0.002%	18.750	0.049%	487.000	0.974
Molybdenum (as Mo)	0.000%	0.304	0.001%	7.900	0.016
Nickel (as Ni)	0.000%	0.578	0.002%	15.000	0.030
Lead (as Pb)	0.000%	0.963	0.003%	25.000	0.050
Selenium (as Se)	0.000%	0.162	0.000%	4.200	0.008
Zinc (as Zn)	0.003%	33.726	0.088%	876.000	1.752
Mercury (as Hg)	ND	ND	ND	ND	ND
code ND = none detected					
code NT = not tested					

