

**OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING AGENDA
April 18, 2017 @ 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, Ron Schmitt
Public Works Director, Osage Beach, Nick Edelman
Public Works Director, Lake Ozark, Matt Michalik
Resident Member, Mr. Gary Hamner

3. MINUTES

Regular Meeting; March 21, 2017

PAGE NUMBERS

3-4

4. REPORTS

Bill List	5-19
Revenue Budget Analysis	21
Expenditure Budget Analysis	23
Income & Expense Summary	25
Check Registers & Bank Statements	27-30
 Alliance Report of Operations	 31-48
Approval of Flow Chart	

5. OLD BUSINESS:

A. Discussion and possible action regarding Condition Analysis
and Seismic Monitoring.

6. NEW BUSINESS: None

7. ADDITIONAL DISCUSSION ITEMS

8. ADJOURNMENT

THE NEXT MEETING WILL BE MAY 16, 2017, 4:00 PM @ LAKE OZARK
CITY HALL

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LAKE OZARK-OSAGE BEACH
JOINT SEWER BOARD
Meeting Minutes-March 21, 2017

CALL TO ORDER:

Mayor Johnnie Franzeskos called the meeting to order at 4:00pm on Tuesday, March 21, 2017 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-Absent
Alderman, Osage Beach-Ron Schmitt-Arrived 4:08pm
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-Absent

MINUTES:

Alderman Murawski made a motion to approve the meeting minutes of February 21, 2017, seconded by Public Works Director Michalik. Motion passed unanimously with the exception of Alderman Schmitt who arrived after the vote was taken.

REPORTS:

City Administrator Woods made a motion to approve the Bills List, seconded by Alderman Murawski, motion passed unanimously with the exception of Alderman Schmitt who arrived after the vote was taken.

Alliance Report of Operations for February reported the average daily incoming flow for February was .970 mgd. There was 0.7 inches of precipitation measured at the WWTP in February.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD of 3.3 mg/l and TSS of 2.6 mg/l respectively for February, which represents a 98.5 +% or better removal.

The MLSS average for aeration basin #2 was 4,614 mg/l in February. The total dry weight sludge inventory for February totaled 258,991 pounds. There were 68

tanker loads of 251,600 gallons of biosolids land applied in February. The also received 5 tanker loads of 12,500 gallons of septage for the month of February.

APPROVAL OF FLOW CHART

Motion was made by Public Works Director Michalik to approve the Flow Chart, seconded by Alderman Murawski, motion passed unanimously with the exception of Alderman Schmitt who arrived after the vote was taken.

OLD BUSINESS:

None

NEW BUSINESS:

- A. Discussion and possible action on bids for a replacement Mud Valve and Accessories.

Gary Hutchcraft with Alliance reviewed the bids that were solicited for a replacement mud valve & accessories for Oxidation ditch #1 and for the UV channel dry pit valve. In addition a recommendation was made to use the same welder/fabricator/machinist (G & L Welding) to install and repair as was done on the last oxidation ditch project. After review a motion was made by Public Works Director Michalik to accept the bid from HD Supply for the Iron parts \$2,179.65 plus freight with the addition of stainless on the ditch stem for an additional \$300.00. Seconded by Alderman Murawski, motion passed unanimously with the exception of Alderman Schmitt who arrived after the vote was taken.

ADJOURNMENT:

At 4:10pm Public Works Director Michalik made a motion to adjourn, seconded by Alderman Murawski, motioned passed unanimously.

Approved On:

Mayor, Johnnie Franzekos

City Clerk, Kimberly Baker

JOINT SEWER BOARD
BILL LIST
APRIL 18, 2017

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ -
OPERATING FUND BILLS TO BE PAID:	\$ 37,770.65
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ -
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$ -
TOTAL	\$ 37,770.65

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

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

OPERATING FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4185	3582	Ameren MO	Mar. Service	\$ 4,233.30
4000	3583	Equipment Replacement Fund	Payment into ER Fund	\$ 3,467.00
4170	3584	Alliance Water Resources, Inc.	Management Fee	\$ 25,935.82
4160	3585	Alliance Water Resources, Inc.	Hauled Waste	\$ 2,050.00
4150	3586	Alliance Water Resources, Inc.	Service Mower & Tow	\$ 266.76
4020	3586	Alliance Water Resources, Inc.	Main & Repair	\$ 568.45
4150	3587	Roemer's Heavy Equip	Repair Sludge Truck	\$ 1,082.32
4140	3588	Naught-Naught	Increase values 2%	\$ 167.00
TOTAL				\$ 37,770.65

EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:

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

EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:

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



AmerenMissouri.com
1.877.428.3738
PO Box 780352 St. Louis, MO 63179-0352
for correspondence only

FOCUSED ENERGY. For life.

Account Number 4580065832
Customer Name ALLIANCE WATER RESOURCES INC
Service Address 3 ANDERSON RD.,
LAKE OZARK, MO 65049

Current Detail for Statement 04/10/2017

Total Electric Charges \$3,520.12

Total Amount Due \$3,520.12

AMOUNT DUE

\$3,520.12

Due Date

05/02/2017

Amount After Due Date

\$3,572.92

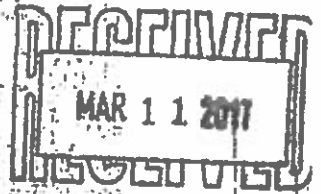
Previous Statement

\$2,883.55

Total Payments

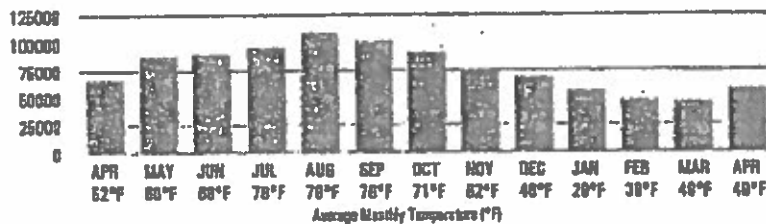
\$2,883.55

Please Receive Thank You



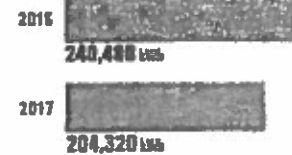
Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Electric Usage Summary (kWh)

So far this year, you're using 15% less than last year.



Usage from Jan-Apr for 2016 & 2017

* See next page for service details.

Keep this portion for your records.

Page 1 of 4

Please return this portion with your payment.



☐ Check if you have address changes on back.

Amount Due	Due Date
\$3,520.12	05/02/2017
Delinquent Amount After Due Date	Account Number
\$3,572.92	4580065832

Amount Enclosed \$

>000117 2252987 0003 092139 10Z

ALLIANCE WATER RESOURCES INC
PO BOX 1885
LAKE OZARK, MO 65048-1885

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

00600000 0045800058302 000003520120 000003520120



AmerenMissouri.com
1.877.426.3738
PO Box 780352 St. Louis, MO 63179-0352
for correspondence only

FOCUSED ENERGY. For life.

Account Number 6680805820
Customer Name ALLIANCE WATER RESOURCES INC
Service Address 3 ANDERSON RD
LAKE OZARK, MO 65049

Current Detail for Statement 09/11/2017

Total Electric Charges \$713.18

Total Amount Due \$713.18

AMOUNT DUE \$713.18

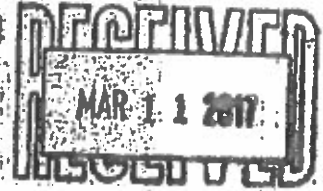
Due Date 05/03/2017

Amount After Due Date \$723.88

Previous Statement \$70.74

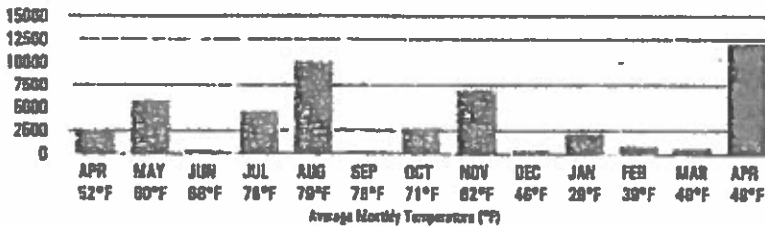
Total Payments \$70.74

Payment Received Thank You



Electric Usage History

Electric Usage in Kilowatt Hours (kWh)



Average Monthly Temperature (°F)

Electric Usage Summary (kWh)

So far this year, you're using 11.2% more than last year.

2018 13,870 kWh

2017 15,428 kWh

Usage from Jan-Apr for 2018 & 2017

13073 00000 2253229 00000 001155 00016002

See next page for service details.

Keep this portion for your records.

Page 1 of 4

Please return this portion with your payment.



☐ Check if you have address changes on back.

Amount Due	Due Date
\$713.18	05/03/2017
Delinquent Amount After Due Date	Account Number
\$723.88	6680805820

Amount Enclosed \$

>000296 2253229 0002 092139 102

ALLIANCE WATER RESOURCES INC
PO BOX 1885
LAKE OZARK, MO 65048-1885

AMEREN MISSOURI
PO BOX 88068
CHICAGO IL 60680-1068

70633000 0055800059200 000000713180 000000713180

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

INVOICE

Invoice No: 7312

Invoice Date: 1-Apr-17

Customer No: 20220

Terms: 30 days

SOLD TO:

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

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

Alliance Water Resources, Inc.

Professional Water and Wastewater Operations
206 South Keane Street
Columbia, Missouri 65201
(573) 874-8080 Fax (573) 443-0833

INVOICE

Invoice No: 7311

Invoice Date: 31-Mar-17

Customer No: 20220

Terms: 30 days

SOLD TO:

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

REFERENCE	DESCRIPTION	AMOUNT
	Hauled waste payments for the month of Mar-17 41 Hauled Waste loads @ \$50.00 each	\$2,050.00
TOTAL DUE		\$2,050.00

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 Kami Bell
 City of Osage Beach
 1000 City Parkway
 Osage Beach, MO 65065

INVOICE

Invoice No: 7313
Invoice Date: 1-Apr-17
Customer No: 20220
Terms: 30 days

REFERENCE	DESCRIPTION	AMOUNT
	USA Bluebook - 1 Invoice - 50%	\$103.58
	Aesthetix Electric - 1 Invoice - 50%	\$237.50
	Cole-Parmer - 1 Invoice - 50%	\$119.88
	Hi-Tech Auto Body & Towing - 1 Invoice - 50%	\$82.50
	CED - 1 Invoice - 50%	\$107.50
	Crown Power & Equipment - 1 Invoice - 50%	\$204.28
TOTAL DUE		\$835.21

4020
 4020
 4020
 4150
 4020
 4150

USABlueBook

Get the Best Treatment™

Remit To:
P.O. Box 9004
Gurnee, IL 60031-9004
TEL: (847) 689-3000
FAX: (847) 689-3001
TOLL FREE: 1-800-483-8876
F.E.I.N.: 52-2418852

INVOICE

INVOICE NO.	PAGE NO.
195444	1 of 1
CUSTOMER NO.	DATE
304523	03/02/17

View online at: <http://usabluebook.billtrust.com>
Web Enrollment Token: HFB QFB VSV

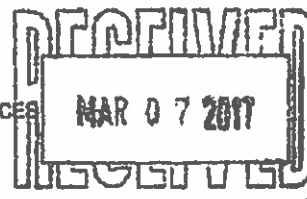
BILL TO: 304523
318 1 SP 0.480 ED319 10683 02290227513 82 P4024185 0003:0003



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

SHIP TO: 4

ALLIANCE WATER RESOURCES
*****DELIVER BY 4 PM*****
3 ANDERSON RD
LAKE OZARK MO 65049
USA



Ordered by: 0009 GARY HUTCHCRAFT

Attention: 0009 GARY HUTCHCRAFT

CUSTOMER P.O. NO.	SHIP DATE	SLS	TERMS	TAX CODE	SALES ORDER NO.	UNIT	PRICE	PER	EXTENSION
VERBAL GARY	03/02/17	SLS	1%/10 NET 30	MOEXEMPT	852457	01	PREPAID	UPS	
USA STOCK NO.	DESCRIPTION	ORDERED	SHIPPED	BACKORDER	UNIT	PRICE	PER	EXTENSION	
48200	USABLUEBOOK Digestive SOE 340 50 Lb Size SDS VISIT WWW.USABLUEBOOK.COM	1	1	0	EA	167.78	EA	167.78	
FOR STARTING OXIDATION DITCH BACKUP. GL Acct#: 16705-20 \$103.60 1280-20 \$103.59 4020 Signature: <i>[Signature]</i> Date: 3/7/17									

THANK YOU for your business!
1.5% MONTHLY FINANCE CHARGE
ON AMOUNTS 30 DAYS PAST DUE
Discounts Apply to Merchandise Only

MERCHANDISE	MISCELLANEOUS	DISCOUNT	TAX	FREIGHT	TOTAL
167.78	0.00	0.00	0.00	39.43	207.19

Should it become necessary to refer your unpaid balance to a collection agency, a collection fee, not to exceed 25% of the balance referred; plus reasonable attorney's fees; and court costs when necessary, will be added to the balance due.

Please Detach and Return Bottom Portion to Insure Proper Credit to Your Account

USABlueBook

Get the Best Treatment™

****IMPORTANT****

Please include this customer #
on the face of your remittance check.

INVOICE NO.	CUSTOMER NO.	DATE	TOTAL
195444	304523	03/02/17	207.19

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

REMITTANCE ADDRESS

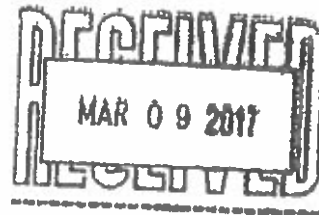
USABlueBook
P.O. Box 9004
Gurnee, IL 60031-9004

AESTHETIX ELECTRIC

March 7, 2017

Alliance Water Resources
Lake Ozark/Osage Beach WWTP
PO Box 1985
Lake Ozark Mo, 65049

Invoice#030717307



A. Calibration on Flow Meters:

- Lake Ozark Influent Calibration
- Osage Beach Influent Calibration
- Razz 1 Flow Calibration
- Razz 2 Flow Calibration
- Effluent Flow Calibration

B. Diagnostics on Clarifier #1

- Looked at Actuator Arm
- Reversing Contacts Not Functioning
- Operator is going to Repair

GL Acct#: 6705-20 \$237.50 1020-20 \$237.50 4020

Signature: *Nancy Hultquist*

Invoice Total \$475.00

Date: 3/9/17

- Net 30 days with 1.5% added monthly

Steve Durbin
Aesthetix Electric

573.348.1429
aesthetixelectric.com | steve@aesthetixelectric.com
6181 Brook Hollow | Osage Beach MO, 65065

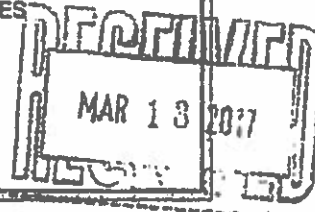
Remittance Address	
13927 Collections Center Drive Chicago, IL 60693-0139	

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 #
1061294	GHUTCHCRAFT030317
Invoice Date	Invoice Amount
03/08/2017	\$239.73
Reference #	Terms
8145901-00	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 03/08/2017, FDX.GND, 1 CARTON(S), 2 lbs TOTAL WEIGHT, TRACKING NUMBER(S): 9612019080055587844501
----------------	---

Invoice Comments: SERVICE RETURN 602120139 ORIGINAL REF# 7519925-00 Service Return: 702170078

Line	Qty Ord	UOM	Item#	Description	Shipped	Back- Ordered	Unit Price	Extended Price
1	1	EA	99999-62	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	17008-05	NIST CERT GLASS THERM 5-9PTS NON-CANCELABLE/NON-RETURNABLE	1		225.000	225.00

SUB-TOTAL	225.00
FREIGHT AMOUNT	14.73
TAX AMOUNT	.00
OTHER CHARGES	.00
PLEASE PAY THIS TOTAL AMOUNT	\$239.73
DUE DATE	04/05/2017

NOTES:

ORDER PLACED BY GARY HUTCHCRAFT, PHONE # 573-385-0455

Would you like to receive your invoices via email or fax rather than a hard copy through the mail? If so, just contact Craig Benfield by phone 888-358-4714 x490214 or by email at craig.benfield@coleparmer.com with your preferred fax number or email address.

FOR COMPLETE LIST OF APPLICABLE TERMS PLEASE VISIT US AT
www.coleparmer.com/terms-and-conditions

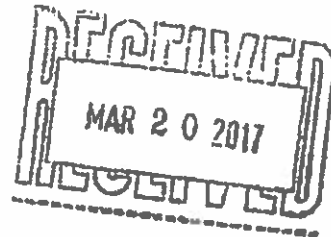
GL Acct#: 6705-20119.87 1220-20119.86
Signature: *Gary Hutchcraft* 402C
Date: 3/13/17

Hi-Tech Auto Body and Towing
435 Hwy. 42, Kalsar MO 65047
Phone: (573) 348-4748 | Fax: (573) 348-4978

W292

Invoice
#60539
Printed 3/15/2017

Gary
Alliance Water Resources
P.O. Box 1985
Lake Ozark MO 65049



Invoice # 60539 Authorized by Alliance Water Resources
Call # 03115 P.O. Box 1985, Lake Ozark MO 65049
Date/Time Requested 1/26/2017 @ 3:29 PM Gary (573) 365-0455
Date/Time Completed 1/26/2017 @ 8:38 AM Tow From alliance water resource
Contact (573) 216-8398, Tow To alliance water resources on woodriver
Notes Flat tire need to pick up truck it is loaded

Year	Make	Model	Color	VIN	Plate	Odometer
-	Sledge	Truck	-	-	-	-

Charge Description	Quantity	Price	Line Total
Winching	1	\$125.00	\$125.00
		Grand Total	\$125.00
		Amount Due:	\$125.00

Customer Liability Release By signing my name I acknowledge I have requested towing, recovery, or roadside services that are not recommended by Hi-Tech Auto Body and Towing. If damage or theft of my vehicle occurs because of this request, I release Hi-Tech Auto Body and Towing of all responsibility, both civil and criminal, in a court of law.

Signature: _____

USDOT: 1845224
HAD FLAT LOADED & TIRE COMPANY COULDN'T GET LIFTED +
HAD TO CALL WRECKER FOR ASSISTANCE
GL Acct#: 16702-20 \$62.50 1220-20 \$62.50 4150
Signature: [Signature]
Date: 3/20/17

MAR 15 2017

COLUMBIA

Invoice

Page 1 of 1

CED CONSOLIDATED ELECTRICAL DISTRIBUTORS, INC.

6589 OSAGE BEACH PARKWAY
OSAGE BEACH, MO 65085

T: 5733484441

F: 5733027441

INVOICE NO.	INVOICE DATE
0950-524410	03/13/2017
PLEASE SHOW INVOICE NO. AND REMIT TO:	
P.O. BOX 878 COLUMBIA, MO 65205	

SOLD TO:

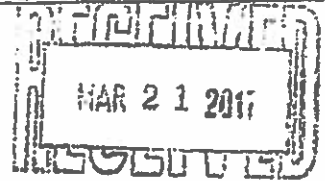
3057 1 MB 0.423 E0419X 10728 02303407111 52 P4048325 0001:0001



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

SHIP TO:

ALLIANCE WATER RESOURCES
6589 OSAGE BEACH PARKWAY
OSAGE BEACH, MO 65085



MAR 24

ACCOUNT #/NAME			JOB NAME		CUSTOMER ORDER NO.							
D7-01585			SHOP		PER GARY							
SALESPERSON			SHIPPING INFORMATION		SHIP VIA			SHIP DATE				
3338 TC			PREPAID		WILL CALL			03/10/2017				
QTY ORDERED	PRODUCT CODE		DESCRIPTION		CODE	QTY SHIPPED	PRICE	PER	DISC.	EXTENSION	C / D	
1	SQD	EHB24020	RECON BREAKER			1	200.00	E		200.00	0.0	
1	SQD	FREIGHT	ESTIMATED			1	15.00	E		15.00	0.0	
GL Acct#: <u>6705-20 \$123.57</u> <u>1220-20 \$107.50</u> <u>4020</u> Signature: <u><i>Ray Hultquist</i></u> Date: <u>3/21/17</u>												
TITLE TO MERCHANDISE PASSED AT POINT OF SHIPMENT. CLAIMS FOR SHORT OR DAMAGED MERCHANDISE SHOULD BE MADE TO CARRIER.					CODE: TO ADVISE YOU PROMPTLY CONCERNING YOUR ORDER, THIS CODE IS USED ON OUR INVOICE.					MERCHANDISE		215.00
MERCHANDISE RETURNED WITHOUT OUR CONSENT WILL NOT BE ACCEPTED. A RESTOCKING CHARGE WILL BE MADE ON RETURNED GOODS UNLESS DEFECTIVE OR THRU ERROR ON OUR PART.					B - BACK ORDERED. WILL SHIP AS SOON AS RECEIVED UNLESS INSTRUCTED TO CANCEL.					SALES TAX		7.47500 16.07
A SERVICE CHARGE OF 1.5% PER MONTH MAY NOT TO EXCEED THE HIGHEST AMOUNT LAWFULLY ALLOWED BY CONTRACT IN THIS STATE, WILL BE MADE ON ALL PAST DUE ACCOUNTS.					C - CANCELLED. NOT IN STOCK. UNABLE TO PURCHASE LOCALLY.					SHIPPING CHARGE		0.00
THIS SALE IS SUBJECT TO OUR TERMS LOCATED AT SALES.OUR-TERMS.COM, WHICH WE MAY CHANGE FROM TIME TO TIME WITHOUT PRIOR NOTICE.					NET PAYMENT IS DUE BY THE 15TH OF THE MONTH FOLLOWING PURCHASE					TOTAL DUE 		231.07

CASE IH**CASE****CROWN****Kubota****Suburban**

8831 Rockport Hills Rd
Jefferson City, MO 65101
Phone: (573) 638-0281

3549 Hwy 53 West
Eldon, MO 65026
Phone: (573) 323-0230

1881 Prothersville Rd
Columbia, MO 65202
Phone: (573) 443-4841

2615 South Springfield Ave
Bellevue, MO 64613
Phone: (417) 825-7841

22088 Hwy 127
LeMotte, MO 65887
Phone: (660) 547-5855

105 Hwy 24 West
Salisbury, MO 65261
Phone: (660) 388-8425

22695 Highway H
Marion, MO 65706
Phone: (417) 235-5222

RO: 10527E

Invoice: 13807E

Date: 03/30/2017

ALLIANCE WATER RESOURCES
GARY HUTCHCRAFT
PO BOX 1985
LAKE OZARK, MO 65048



Type:	MOWER	RO Open Date:	03/23/17	Meter In:	51
Meter Out:	110				
001	SERVICE MACHINE				
	D COMPLETE SERVICE, DO WHATEVER IT NEEDS.				
	F CHANGED ENGINE OIL, FILTER, AIR PRE FILTER, CLEANED MAIN FILTER, CHANGED FUEL FILTER AND SPARK PLUGS.				
	CHANGED HST FILTERS AND FLUID (NOTE): NEXT HST CHANGE AT 400 HOURS				
	NOTE: WHILE REMOVING BREATHING PLUG ON RIGHT HST, PLUG HEAD BECAME STRIPPED, WELDED NUT ON PLUG TO REMOVE AND REPLACE PLUG.				
	REPLACE BOTH WORN BLADES				
	CORRECTED TIRE PRESSURE				
	LEVELED DECK.				
	TESTED MACHINE, EVERYTHING WORKS				
L	L LABOR				
	LABOR				
	P 70000-10200 OIL, 1 QT	2.00	4.69	4.69	9.38
	P K5575-97530 KIT BLADE	1.00	47.45	47.45	47.45
	P KH-24-050-13-S1 FLTR-FUEL	1.00	8.25	8.25	8.25
	P KH-52-050-02-S1 OIL FILTER	1.00	10.45	10.45	10.45
	P K1042-81080 FILTER, OI	2.00	30.62	30.62	61.24
	P 759-3336 SPARK PLUG	2.00	5.80	5.80	11.60
	P 70000-10800 OIL, 1 QT 2	3.00	4.65	4.65	23.25
	P E7176-00400 FILTER	1.00	4.90	4.90	4.90
	P 6MB-PLUG MALE BOSS	1.00	0.58	0.58	0.58
	Subtotal charges this section				383.15
	M SHOP SUPPLIES				14.42

THANK YOU FOR YOUR BUSINESS

CASE CREDIT CARD *0815 12/49 Auth:030114

408.53

Promo:

Trans ID: 0126F8QGI300P7119FLPIKBNFHK0INLA

ClientID: 3345687006 StoreID: 2414984001

By signing I certify that I am authorized to use this account, to sign this receipt, and that I agree that the total amount of this invoice is repayable in accordance with the Credit Agreement applicable to this Account.

CUSTOMER FINAL INVOICE

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page 1 of 2

QTY PART NO. DESCRIPTION QUOTE

1	HN45027000	Spring	523 87
1	HN43140000	PIN	23 81
2	3/4 x 334	Bolts	317 6 34
2	3/4	LOCK NUTS	145 290
2	3/4	FLAT WASHERS	45 90

SLUDGE TRK

(PAY BE CONTINUED ON OTHER SIDE)

TOTAL PARTS	537 32
ACCESSORIES	

ROEMER'S HEAVY EQUIPMENT & TRUCK REPAIR

P.O. Box 191
Osage Beach, Missouri 65085
(573) 348-3733

19057

NAME Joint Sewer Board DATE 3-24-17
 ADDRESS P.O. Box 1985 ORDER WRITTEN BY
 CITY, STATE, ZIP LAKE OZARK, MO 65049 BUSINESS PHONE
 HOME PHONE
 YEAR, MAKE AND MODEL
 SERIAL NUMBER
 MOTOR NUMBER
 LICENSE NUMBER
 TERM
 COCKEY IN
 COCKEY OUT
 A.M.
 P.M.

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

Remove and replace broken
 spring assembly. Between left
 rear drive axles.
 Drill out front motor
 mount brackets & install
 larger motor mount bolts,
 nuts.

MAR 29 2017

TOTAL LABOR	545 00
TOTAL PARTS	537 32
ACCESSORIES	
GAS, OIL & GREASE	
SUBLET REPAIRS	
SPAREPARTS DISPOSAL	
TAX	
TOTAL	1082 32
THANK YOU!	

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

SAVE OLD PARTS? ☐ YES ☐ NO
 SIGNATURE



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

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

INVOICE NO. 203344

LAKE-33 T5 03/31/2017

UPP 0007040

Cincinnati Insurance Company

Steve Naught

04/10/2017 04/10/2018

Line	Date	Ref	Type	Description	Amount
9C8TXR	04/10/17	+EN	PCKG	Increase Property Values	\$167.00

Invoice Balance: \$167.00

2017 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	98,800	33,120	1985	Masonry
1	2	#3 Anderson Rd, Lake Ozark	Box Culvert	58,360			
1	3	#3 Anderson Rd, Lake Ozark	Paving	20,920			
1	4	#3 Anderson Rd, Lake Ozark	Exterior Lights	161,840			
1	5	#3 Anderson Rd, Lake Ozark	Lab Piping	161,840			
1	6	#3 Anderson Rd, Lake Ozark	Lab Meters	42,930			
1	7	#3 Anderson Rd, Lake Ozark	Head Works Incl Controllers	136,600	355,640	1,855	
1	8	#3 Anderson Rd, Lake Ozark	RAS Pit Incl Controllers	41,880		96	
1	9	#3 Anderson Rd, Lake Ozark	Gate	62,760			
1	10	#3 Anderson Rd, Lake Ozark	Headworks Piping	160,600			
1	11	#3 Anderson Rd, Lake Ozark	Meters	42,930			
1	12	#3 Anderson Rd, Lake Ozark	Aeration Tank	2,815,820			
1	13	#3 Anderson Rd, Lake Ozark	Meters	42,930			
1	14	#3 Anderson Rd, Lake Ozark	Non-Portable Wet Well	37,360			
1	15	#3 Anderson Rd, Lake Ozark	Cascade	145,440			
1	16	#3 Anderson Rd, Lake Ozark	Sludge Basin	460,470			
1	17	#3 Anderson Rd, Lake Ozark	Blower Building	66,250		676	
1	18	#3 Anderson Rd, Lake Ozark	Blower	57,530			
1	19	#3 Anderson Rd, Lake Ozark	Blower	15,680			
1	20	#3 Anderson Rd, Lake Ozark	Well House	104,600	26,150	285	
1	21	#3 Anderson Rd, Lake Ozark	Clarifier	327,100			
1	22	#3 Anderson Rd, Lake Ozark	Well Piping	160,600			
1	23	#3 Anderson Rd, Lake Ozark	Meters	42,930			
1	24	#3 Anderson Rd, Lake Ozark	Clarifier 3	828,950			
1	25	#3 Anderson Rd, Lake Ozark	UV Disinfection System	692,100		877	
1	26	#3 Anderson Rd, Lake Ozark	Fencing	66,400			
1	27	#3 Anderson Rd, Lake Ozark	Storage Building	4,530			240 Frame
		Totals		6,856,160	414,910	2014	

COMBINED TOTALS

7,271,070

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

Account Number	Account Name	3/31/2017				Percent YTD	
		2015 Actual	2016 Actual	2017 Budget	2017 Actual as of 3/31/2017		
3020	Osage Beach	477,172.03	475,802.57	473,000.00	118,462.92	39,282.36	25%
3010	Lake Ozark	72,827.98	74,197.42	77,000.00	19,037.07	6,550.97	25%
3100	Interest	54.79	368.52	200.00	231.49	135.49	116%
3060	Waste Haulers' Fee	32,400.00	33,460.00	35,000.00	6,100.00	4,100.00	17%
Total Operating Fund		582,454.80	583,828.51	585,200.00	143,831.48	50,068.82	25%
E/R Fund Income		2,188.83	2,847.67	1,500.00	259.02	147.05	17%
TOTAL INCOME		584,643.63	586,676.18	586,700.00	144,090.50	50,215.87	25%

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**MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
3/31/2017**

Account Number	Account Name	2015 Actual	2016 Actual	2017 Budget	2017 Actual as of 3/31/2017	2017 March Expenses	Percent YTD
4000	Equipment Replace Fund	41,606.04	41,606.04	41,604.00	10,401.17	3,467.00	25%
4010	ERF Repayment	0.00	0.00	0.00	0.00	0.00	0%
4020	*Maintenance & Repair	33,878.90	18,735.50	28,000.00	107,945.95	0.00	386%
4140	Insurance	16,306.00	16,977.00	17,500.00	16,977.00	16,977.00	97%
4150	***Vehicle Repair/Maint	1,508.78	951.93	8,000.00	5,048.82	4,685.20	63%
4160	Haulers Fees to Contractor	8,000.00	8,000.00	8,000.00	1,000.00	250.00	13%
4170	Contract Management	296,233.08	303,638.88	312,750.00	77,807.46	25,935.82	25%
4185	Electric	76,751.19	72,637.17	77,000.00	8,981.96	2,754.29	12%
4190	Bank Charges	0.00	14.85	0.00	0.00	0.00	0%
4200	Audit	2,000.00	2,158.50	2,200.00	0.00	0.00	0%
4220	Professional Service	2,369.99	9,193.09	0.00	0.00	0.00	0%
4240	Capital Purchases	0.00	0.00	150,000.00	0.00	0.00	0%
	Totals	478,653.98	473,912.96	645,054.00	228,162.36	54,069.31	35%
	**E/R Expenses	1,869.72	7,980.42	26,500.00	0.00	0.00	0%
	TOTAL EXPENSES	480,523.70	481,893.38	671,554.00	228,162.36	54,069.31	34%

***Equipment & Replacement							
Normal E/R		10,000.00			*Maintenance & Repair		500.00
Replace impellers for RAS pumps		7,500.00			Auto Dialer Yrly Software Fee		1,500.00
Rebuild Arm Support Clarifier #2		5,000.00			Effluent Testing for Permit Renewal		8,000.00
Replace doors		4,000.00			Normal Maintenance		8,000.00
		<u>26,500.00</u>			UV Spare Parts		2,000.00
***Vehicle Repair/Maint					Rock for Road		1,000.00
Vehicle Maintenance		3,000.00			Strip and refinish tile in Admin Bldg		7,000.00
Tires for Sludge Truck		5,000.00	X		Paint RAS room/pipe gallery & valve pits at		<u>28,000.00</u>
		<u>8,000.00</u>					
					2016 Budget		107,249.88
					#1 Aeration Basin grit removal		X

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OPERATING FUND INCOME AND EXPENSE SUMMARY
3/31/2017

Beginning Balance	208,786.44
Income - Osage Beach	39,282.36
Income - Lake Ozark	6,550.97
Income - Other	-
Income - Waste Haulers' Fees	4,100.00
Interest - Checking	48.56
Income - CD Interest	86.93
Transfers From E/R Fund	-
Transfers to E/R fund	(3,467.00)
Expenses	(50,602.31)
Ending Fund Balance	204,785.95
Central Bank - NOW Accl.	54,263.79
First Bank of the Lake - Money Mkt.	100,347.01
CD St. Elizabeth, 3/18 #400886	50,175.15
Outstanding Checks:	-
Deposit in Transit:	-
	204,785.95

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
3/31/2017

Beginning Balance	494,303.66
Interest - Checking	60.12
Income - CD Interest	86.93
Transfers From E/R Fund	3,467.00
Transfers to E/R Fund	-
Income - Miscellaneous	-
Expenses	-
Ending Fund Balance	497,917.71
First Bank of the Lake - Money Mkt.	144,577.03
CD Providence Bank, 10/17 #1268880	201,566.60
CD First Bank of the Lake, 01/18 #101318429	101,598.93
CD St. Elizabeth, 3/18 #485431	50,175.15
Deposit in Transit	-
Outstanding Checks:	-
	497,917.71

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Operating Fund
CHECK REGISTER - JOINT SEWER BOARD OPERATION FUND

	reconciled balance 10/31/16				111,349.24
3556	Ameren MO	X	4,737.16	-	106,612.08
3557	Equipment Replacement Fund	X	3,467.17		103,144.91
3558	Alliance Water Resources, Inc.	X	25,303.24		77,841.67
3559	Alliance Water Resources, Inc.	X	530.20		77,311.47
3560	Lake Sun Leader	X	236.25		77,075.22
	Deposit LO	X	-	5,947.10	83,022.32
	Deposit OB	X		39,886.23	122,908.55
	Deposit	X		1,100.00	124,008.55
	Interest	X		3.97	124,012.52
	reconciled balance 11/30/16				124,012.52
3561	Ameren MO	X	3,902.63	-	120,109.89
3562	Equipment Replacement Fund	X	3,467.17		116,642.72
3563	Alliance Water Resources, Inc.	X	25,303.24		91,339.48
3564	Alliance Water Resources, Inc.	X	550.33		90,789.15
	Deposit LO	X	-	5,596.60	96,385.75
	Deposit OB	X		40,236.73	136,622.48
	Deposit	X		2,180.00	138,802.48
	Interest	X		4.59	138,807.07
	reconciled balance 12/31/16				138,807.07
3565	Ameren MO	X	3,323.61	-	135,483.46
3566	Equipment Replacement Fund	X	3,467.17		132,016.29
3567	Alliance Water Resources, Inc.	X	25,935.82		106,080.47
3568	VOID	X	-		106,080.47
3569	Hunt Vac Services	X	107,249.88		(1,169.41)
3570	Alliance Water Resources, Inc.	X	942.51		(2,111.92)
	Deposit LO	X	-	5,854.98	3,743.06
	Deposit OB	X		39,978.35	43,721.41
	Deposit	X		1,500.00	45,221.41
	Interest	X		9.30	45,230.71
	reconciled balance 1/31/17				45,230.71
3571	Ameren MO	X	2,904.06	-	42,326.65
3572	Equipment Replacement Fund	X	3,467.00		38,859.65
3573	Alliance Water Resources, Inc.	X	25,935.82		12,923.83
3574	Alliance Water Resources, Inc.	X	750.00		12,173.83
3575	Alliance Water Resources, Inc.	X	117.18		12,056.65
	Deposit LO	X	-	6,631.12	18,687.77
	Deposit OB	X		39,202.21	57,889.98
	Deposit	X		500.00	58,389.98
	Interest	X		3.98	58,393.96
	reconciled balance 2/28/17				58,393.96
3576	Ameren MO	X	2,754.29	-	55,639.67
3577	Equipment Replacement Fund	X	3,467.00		52,172.67
3578	Alliance Water Resources, Inc.	X	25,935.82		26,236.85
3579	Alliance Water Resources, Inc.	X	250.00		25,986.85
3580	Clark's Tire Co.	X	4,685.20		21,301.65
3581	Naught Naught	X	16,977.00		4,324.65
	Deposit LO	X	-	6,550.97	10,875.62
	Deposit OB	X		39,282.36	50,157.98
	Deposit	X		4,100.00	54,257.98
	Interest	X		5.81	54,263.79
	reconciled balance 3/31/17				54,263.79



Central Bank of Lake of the Ozarks

MEMBER FDIC
P.O. Box 45001, Jefferson City, MO 65102
(573) 348-2761

RETURN SERVICE REQUESTED

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

Period 03/01/2017 - 03/31/2017 Page 1 of 2

Web Address
www.centralbank.net

M
000007297

Your Financial Summary on March 31, 2017

	Bank Deposits	Totals
Bank Deposit Accounts:		
Checking	\$ 54,263.79	
Bank Deposit Total		\$ 54,263.79
Total Assets:	\$ 54,263.79	\$ 54,263.79

Detailed Explanation of Account Balances and Other Assets

Basic Plus Interest Checking

No. 000007297 Beginning Balance February 28, 2017 \$ 58,393.96

Deposits

Mar. 07	Deposit	1,400.00
Mar. 17	Deposit	6,550.97
Mar. 17	Deposit	39,282.36
Mar. 22	Deposit	2,700.00
Mar. 31	Interest Earned	5.81

Total +\$ 49,939.14

Checks

Check No.	Date Paid	Amount	Check No.	Date Paid	Amount
3576	Mar. 28	2,754.29	3579	Mar. 23	250.00
3577	Mar. 23	3,467.00	3580	Mar. 27	4,685.20
3578	Mar. 23	25,935.82	3581	Mar. 24	16,977.00
		Total			-\$ 54,069.31

Ending Balance March 31, 2017 \$ 54,263.79

Number of days since last statement/interest cycle 31
Beginning and ending dates for calculation of statement/interest cycle are 03/01/2017 through 03/31/2017
Average collected balance 68,344.00
Interest rate 0.10%
Annual percentage yield earned 0.10%

End of Bank Deposits

JSB - CHECK REGISTERS 2017

CHECK REGISTER - JOINT SEWER BOARD EQUIPMENT REPLACEMENT FUND

reconciled balance 10/31/16		-	227,101.75
Interest	X	93.95	227,195.70
Deposit	X	3,467.17	230,662.87
reconciled balance 11/30/16		-	230,662.87
Interest	X	95.27	230,758.14
Deposit	X	3,467.17	234,225.31
reconciled balance 12/31/16		-	234,225.31
Interest	X	103.24	234,328.55
Deposit	X	3,467.17	237,795.72
reconciled balance 1/31/17		-	237,795.72
Interest	X	91.45	237,887.17



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

536 00010 01
ACCOUNT:
DOCUMENTS:

101318411
1

PAGE: 1
03/31/2017

00069 2582666 10Z ATM 608.25 1 5

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



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BUSINESS MONEY MARKET ACCOUNT 101318411 (BUSINESS MONEY MARKET)

LAST STATEMENT 02/28/17 241,354.17
2 CREDITS 3,569.87
DEBITS .00
THIS STATEMENT 03/31/17 244,924.04

DEPOSITS
REF #.....DATE.....AMOUNT REF #.....DATE.....AMOUNT REF #.....DATE.....AMOUNT
03/22 3,467.00

OTHER CREDITS
DESCRIPTION DATE AMOUNT
INTEREST 03/31 102.87

INTEREST
AVERAGE LEDGER BALANCE: 242,472.55 INTEREST EARNED: 102.87
AVERAGE AVAILABLE BALANCE: 242,248.87 DAYS IN PERIOD: 31
INTEREST PAID THIS PERIOD: 102.87 ANNUAL PERCENTAGE YIELD EARNED: .50%
INTEREST PAID 2017: 297.56

*** CONTINUED ***



NOTICE: SEE REVERSE SIDE FOR IMPORTANT INFORMATION



**OPERATING
DIVISIONS**

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



REPORT OF OPERATIONS

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

Month of March 2017

Submitted by Alliance Water Resources, Inc. for the

April 2017

Joint Sewer Board Meeting

SUMMARY OF FACILITY OPERATION

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

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

PLANT EFFLUENT QUALITY

	BOD mg/l	TSS mg/l	pH	E.coli Colonies/100 ml	Coliform	Ammonia as N mg/L	O&G mg/L	Metals Selenium ug/L
Monthly Average	3.1	2.0	NA			0.52	< 5.0	< 1.0
Peak Day	3.8	2.3	8.0			1.50	< 5.0	< 1.0
Percent Removal	98.8	99.4	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 1.335 MGD or 45% of Permitted flow with Lake Ozark contributing 12% of the total flow and Osage Beach contributing 88%. 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 89836 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 33 tanker loads of bio-solids during the month equivalent to a total of 122,100 gallons and 34,808 pounds dry weight solids.

178,205 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 717,500 gallons with a level of 7.5 feet in Tank 1 and 6.5 feet in Tank 2.

WASTEHAULERS

The plant received 41 loads of septage during the month totaling 102,500 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.
- Oxidation ditch #1 is not in service yet, due to waiting on parts for the mud valves.

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 a breaker in the pista grit panel and one in the lighting panel in the non-pot room go bad on us sometime during the week of the 9th of March. We ordered replacements and got them in on the 13th and got them installed that day.
- We put the sludge truck in the shop on the 13th of March to have larger motor mount bolts installed and while he had it he noticed one of the rear leaf springs were busted and needed replaced. He ordered a replacement and it took almost three weeks to get and we got it back on the 29th of March.
- We re-installed the UV banks on the 14th of March and had to replace one wiper cylinder and one old Wedeco bulb. We ran a process control e-coli test on the 27th and had a count of 6 colonies/100mls, which is excellent.

SAFETY

- We conducted our monthly routine Safety Meeting on Back/Lifting Safety on the 10th of March.

REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the EDMR on MDNR's website on the 10th of April.
- We took and shipped our first quarter 503 Regs sludge samples on the 14th of March and received the results back from the lab on the 28th and everything looked good.

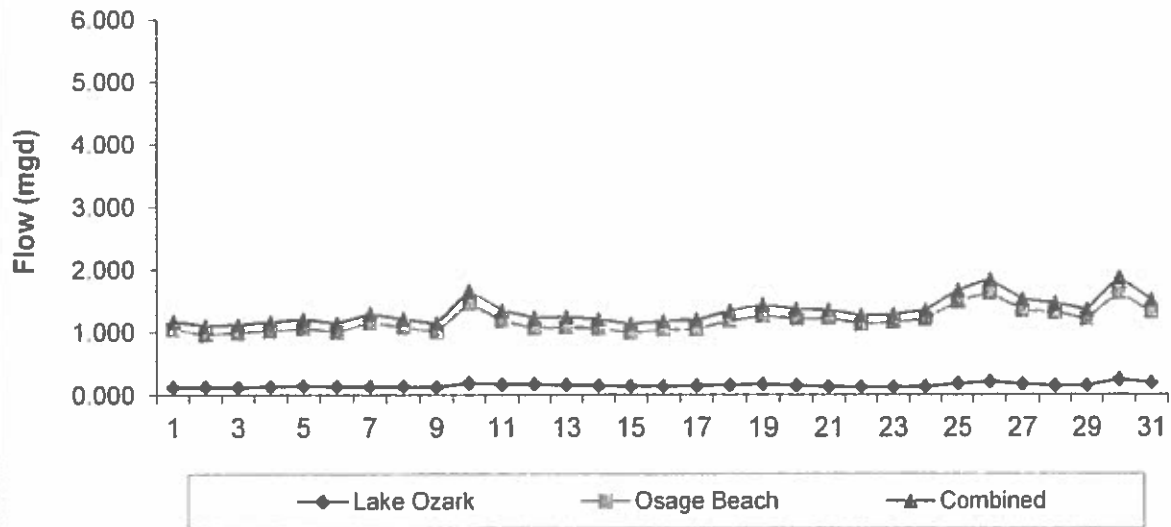
MISCELLANEOUS AND RECOMMENDATIONS

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF March 2017

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	0.35	0.129	1.050	1.179	10.9	89.1						
2-Mar	0	0.134	0.970	1.104	12.1	87.9						
3-Mar	0	0.128	0.996	1.124	11.4	88.6	228	248	230	214	200	244
4-Mar	0	0.140	1.028	1.168	12.0	88.0						
5-Mar	0	0.150	1.059	1.209	12.4	87.6						
6-Mar	0	0.139	1.005	1.144	12.2	87.8						
7-Mar	0	0.138	1.160	1.298	10.6	89.4						
8-Mar	0	0.138	1.075	1.213	11.4	88.6						
9-Mar	0	0.130	1.013	1.143	11.4	88.6						
10-Mar	1	0.196	1.465	1.661	11.8	88.2	220	240	300	216	192	480
11-Mar	0	0.170	1.179	1.349	12.6	87.4						
12-Mar	0	0.173	1.059	1.232	14.0	86.0						
13-Mar	0.2	0.164	1.080	1.244	13.2	86.8						
14-Mar	0	0.150	1.056	1.206	12.4	87.6						
15-Mar	0	0.142	0.985	1.127	12.6	87.4						
16-Mar	0	0.142	1.036	1.178	12.1	87.9						
17-Mar	0	0.151	1.046	1.197	12.6	87.4	208	330	248	180	214	270
18-Mar	0	0.160	1.177	1.337	12.0	88.0						
19-Mar	0	0.175	1.261	1.436	12.2	87.8						
20-Mar	0	0.154	1.215	1.369	11.2	88.8						
21-Mar	0	0.136	1.220	1.356	10.0	90.0						
22-Mar	0	0.129	1.130	1.259	10.2	89.8						
23-Mar	0	0.126	1.158	1.284	9.8	90.2						
24-Mar	0	0.136	1.208	1.344	10.1	89.9	290	260	248	272	256	302
25-Mar	0.75	0.184	1.485	1.669	11.0	89.0						
26-Mar	0.4	0.213	1.626	1.839	11.6	88.4						
27-Mar	0.1	0.176	1.348	1.524	11.5	88.5						
28-Mar	0	0.146	1.314	1.460	10.0	90.0						
29-Mar	0	0.152	1.205	1.357	11.2	88.8						
30-Mar	1	0.246	1.623	1.869	13.2	86.8	230	230	275	174	286	404
31-Mar	0	0.197	1.322	1.519	13.0	87.0						
SUM	3.8	4.844	36.554	41.398								
AVG		0.156	1.179	1.335	12	88	235	262	260	211	230	340
NOTE: BOLD PRINT INDICATES WEEKEND DAYS												

Daily Flow
Figure 1



Effect of Rainfall on Flow
Figure 2

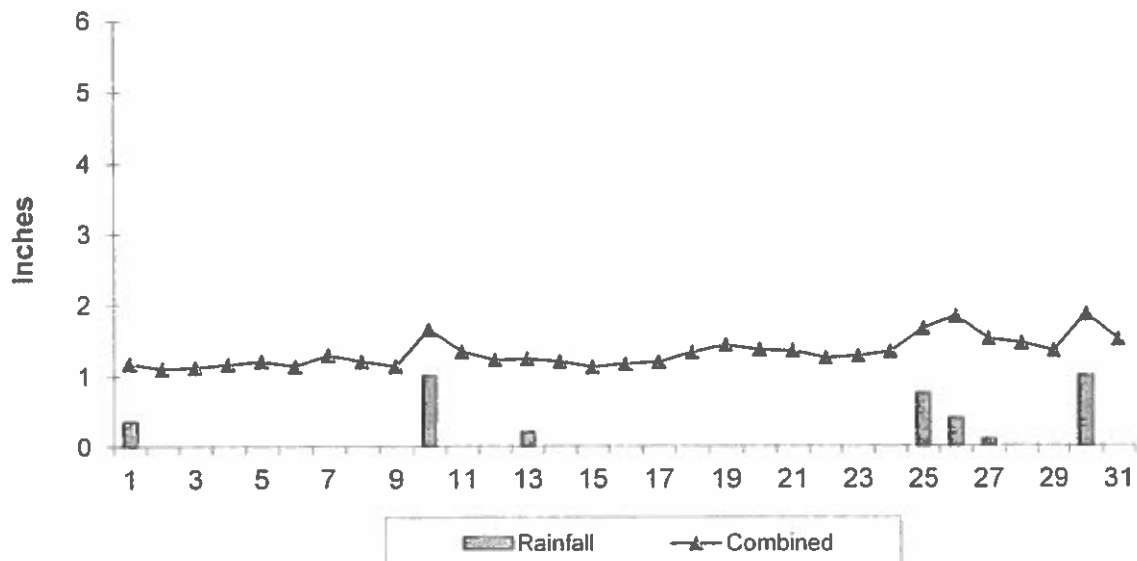
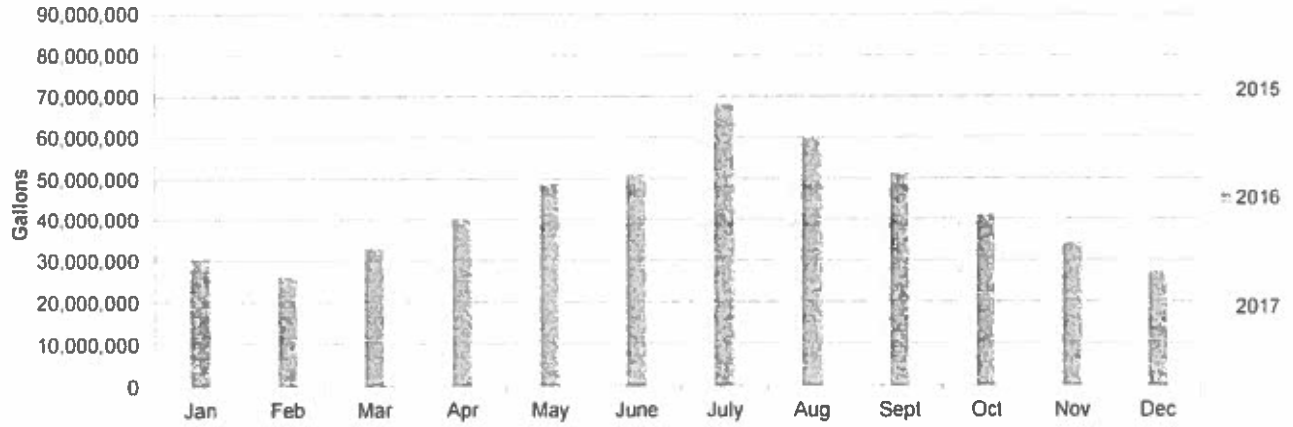


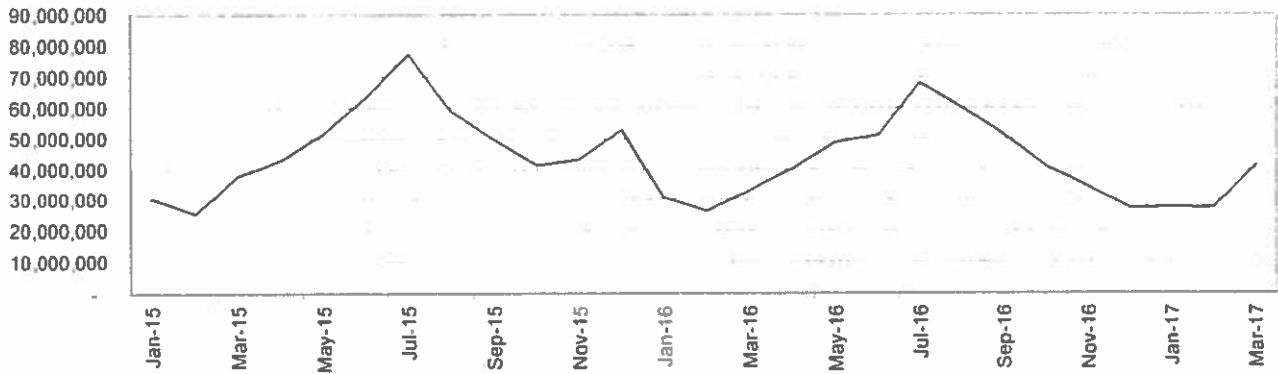
TABLE B
JOINT SEWER BOARD
Monthly Flows

<u>2015</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	0.9	26,319,000	87%	4,085,000	13%	30,404,000	100%
February	1.4	21,892,000	86%	3,465,000	14%	25,357,000	100%
March	4.5	32,996,000	87%	4,920,000	13%	37,916,000	100%
April	4.0	37,220,000	86%	5,945,000	14%	43,165,000	100%
May	7.2	44,456,000	86%	7,209,000	14%	51,665,000	100%
June	7.1	54,745,000	86%	8,769,000	14%	63,514,000	100%
July	9.7	66,474,000	86%	10,871,000	14%	77,345,000	100%
August	3.5	51,695,000	88%	7,327,000	12%	59,022,000	100%
September	3.1	43,144,000	87%	6,531,000	13%	49,675,000	100%
October	1.8	36,230,000	87%	5,216,000	13%	41,446,000	100%
November	10.8	37,047,000	86%	6,247,000	14%	43,294,000	100%
December	11.7	44,392,000	84%	8,603,000	16%	52,995,000	100%
	65.7	496,610,000	87%	79,188,000	13%	575,798,000	100%
<u>2016</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	0.8	26,604,000	87%	4,001,000	13%	30,605,000	100%
February	0.8	22,444,000	86%	3,661,000	14%	26,105,000	100%
March	3.1	28,785,000	87%	4,251,000	13%	33,036,000	100%
April	5.3	35,053,000	87%	5,231,000	13%	40,284,000	100%
May	7.0	42,126,000	86%	6,704,000	14%	48,830,000	100%
June	1.2	44,599,000	87%	6,545,000	13%	51,144,000	100%
July	8.7	59,190,000	87%	8,793,000	13%	67,983,000	100%
August	7.7	51,798,000	86%	8,171,000	14%	59,969,000	100%
September	6.0	44,634,000	87%	6,655,000	13%	51,289,000	100%
October	0.5	36,156,000	88%	5,029,000	12%	41,185,000	100%
November	1.2	29,750,000	87%	4,357,000	13%	34,107,000	100%
December	0.8	23,139,000	86%	3,914,000	14%	27,053,000	100%
	45.4	467,718,000	87%	71,221,000	13%	538,939,000	100%
<u>2017</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	2.5	23,440,000	86%	3,909,000	14%	27,349,000	100%
February	0.7	23,345,000	86%	3,812,000	14%	27,157,000	100%
March	3.8	36,554,000	88%	4,844,000	12%	41,398,000	100%
April							
May							
June							
July							
August							
September							
October							
November							
December							
	7.0	83,339,000	87%	12,565,000	13%	95,904,000	100%

Monthly Influent Flow
Figure 3A

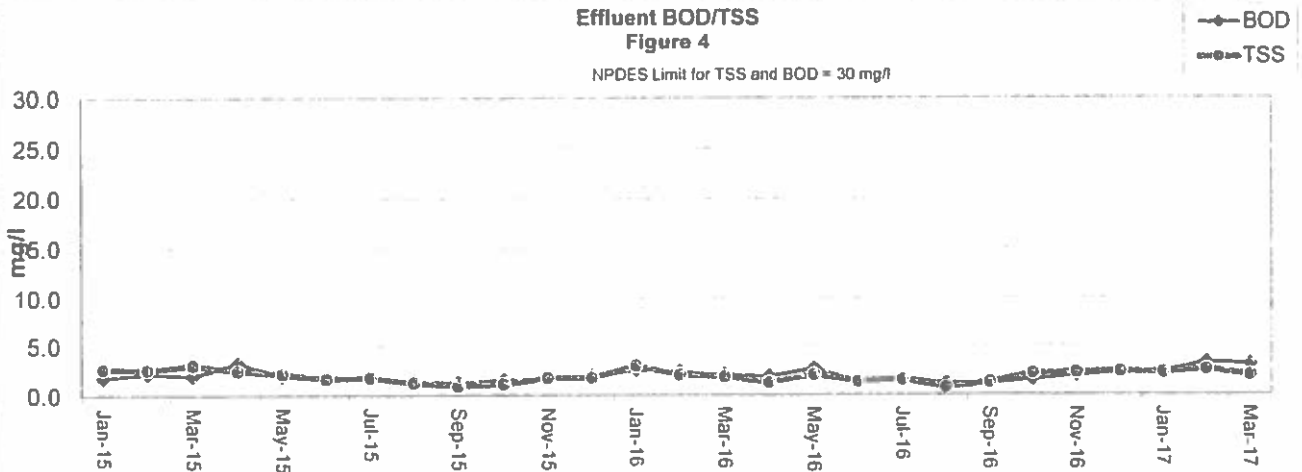


Monthly Influent Flow
Figure 3B

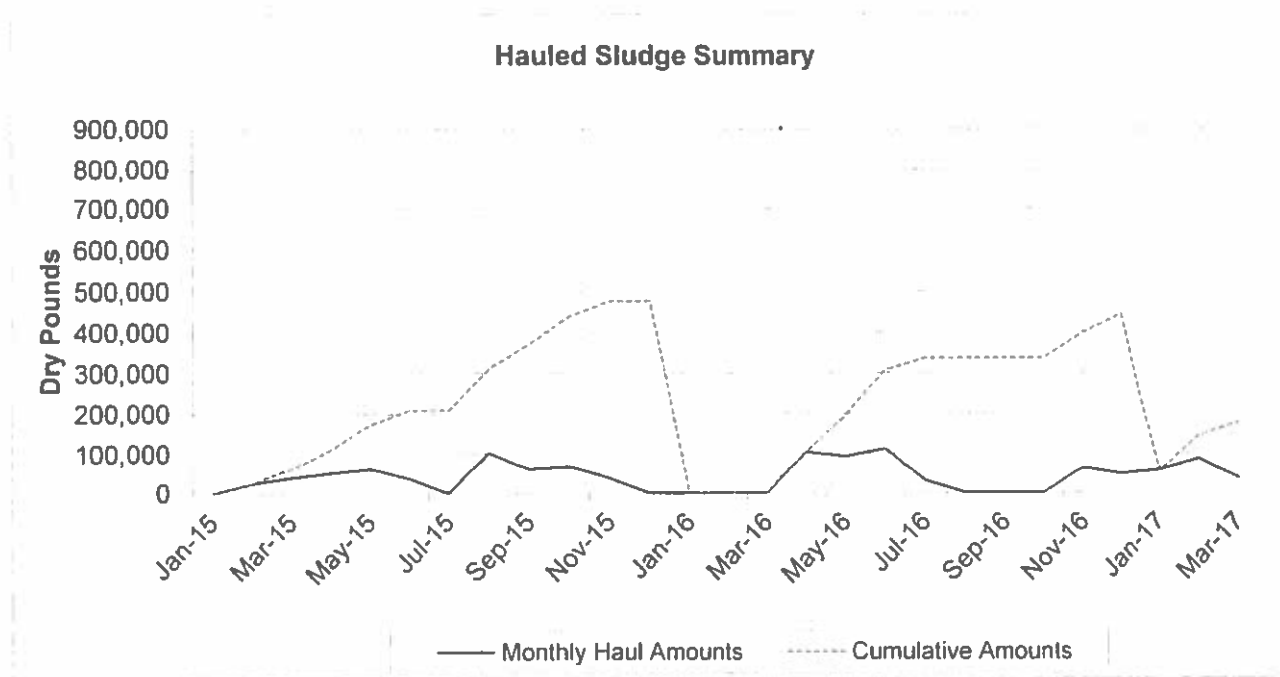
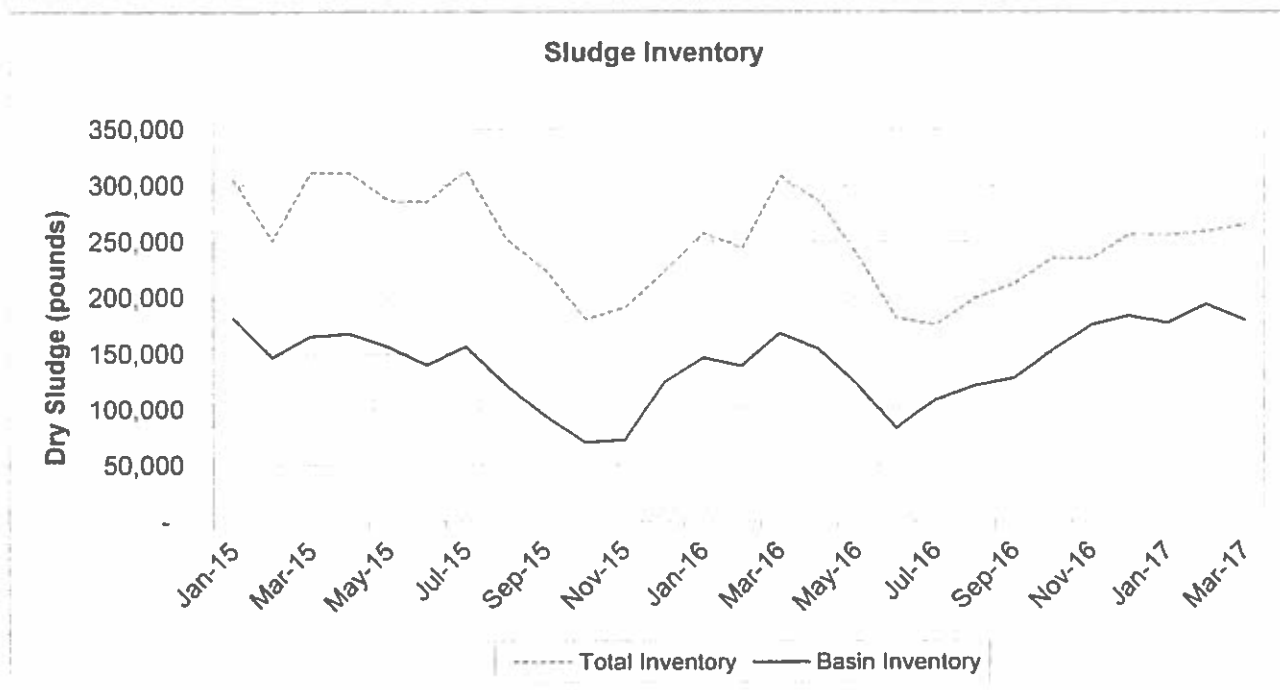


Effluent BOD/TSS
Figure 4

NPDES Limit for TSS and BOD = 30 mg/l

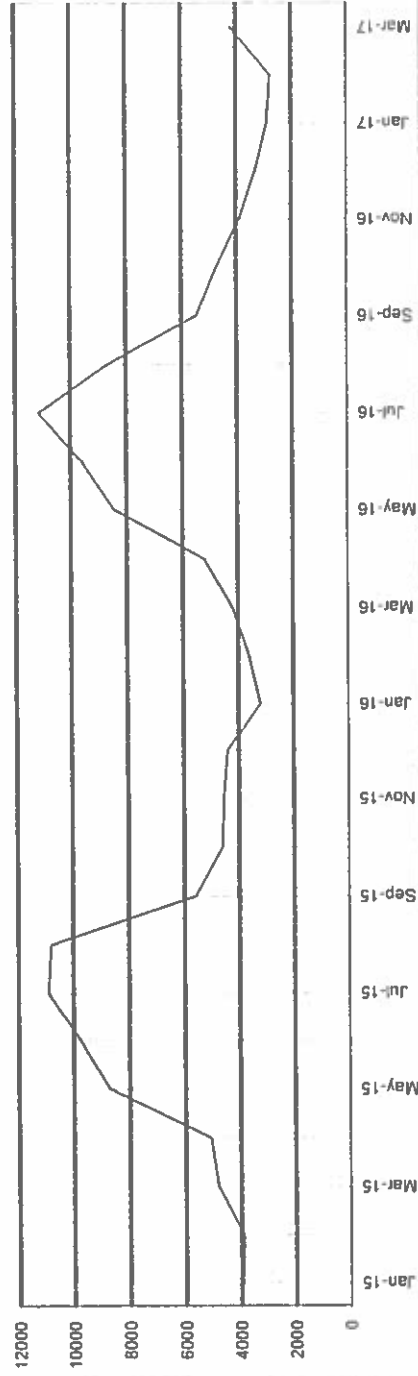


	Basin Depths				Blanket Depths				Blanket and MLSS Inventory				Accepted Septage	
	Tank #1	Tank #2	AB #1	Basin Gallons	# Dry	Clar #1	Clar #2	Clar #3	MLSS AB #1	MLSS AB #2	# Dry	% Solids	Loads	Gallons
Jan-15	5.5	5.5	0.0	485,000	181,645	2.0	2.0	0.0	3,900	4,160	123,395	0.00403	22	55,000
Feb-15	6.0	4.0	0.0	450,000	146,366	1.0	1.0	0.0	3,580	3,290	104,150	0.00344	21	52,500
Mar-15	5.5	6.5	0.0	540,000	165,704	1.0	2.0	2.0	5,040	4,250	144,990	0.00465	11	27,500
Apr-15	6.0	6.0	0.0	540,000	167,861	2.5	2.0	1.0	5,180	4,000	142,532	0.00459	23	57,500
May-15	5.5	6.0	0.0	517,500	155,845	1.5	2.0	4.0	4,030	4,110	130,204	0.00407	26	65,000
Jun-15	8.0	3.5	0.0	517,500	139,961	2.0	1.0	3.0	4,630	4,550	144,837	0.00459	37	92,500
Jul-15	6.5	6.5	0.0	585,000	156,125	1.0	2.0	1.0	5,470	4,660	156,157	0.00507	42	104,000
Aug-15	6.5	4.0	0.0	472,500	122,160	0.5	1.0	0.5	4,170	4,400	130,533	0.00425	44	110,000
Sep-15	5.5	1.5	0.0	315,000	93,525	1.0	1.0	1.0	4,480	3,570	110,917	0.00352	32	80,000
Oct-15	4.0	1.0	0.0	225,000	70,034	1.0	1.0	1.0	3,310	3,920	118,903	0.00384	22	55,000
Nov-15	3.0	2.0	0.0	225,000	72,434	1.0	3.0	1.0	3,440	4,430	118,903	0.00384	19	47,500
Dec-15	4.5	4.0	0.0	382,500	124,412	2.0	0.5	1.5	4,460	1,940	99,000	0.0032	21	52,500
Jan-16	5.0	5.0	0.0	450,000	146,367	0.5	0.5	0.0	3,760	3,610	111,184	0.00369	22	55,000
Feb-16	6.0	3.5	0.0	427,500	139,049	1.0	1.0	0.0	3,210	3,730	105,211	0.00347	6	15,000
Mar-16	6.0	5.5	0.0	517,500	168,322	2.0	2.0	1.0	4,670	3,714	139,249	0.0045	44	110,000
Apr-16	5.5	5.0	0.0	472,500	153,914	2.5	2.5	1.0	5,540	3,180	132,500	0.00426	6	15,000
May-16	6.0	0.0	0.0	382,500	122,423	1.0	5.0	1.0	3,770	3,670	116,343	0.00372	40	100,000
Jun-16	6.0	0.0	0.0	270,000	82,339	1.5	1.0	1.5	2,570	3,840	99,155	0.00321	30	75,000
Jul-16	4.5	4.0	0.0	392,500	108,577	1.0	1.0	1.0	1,740	2,630	67,041	0.00219	46	111,000
Aug-16	6.0	3.5	0.0	427,500	121,222	1.0	1.0	1.0	2,880	2,220	78,240	0.00255	43	95,000
Sep-16	5.0	5.0	0.0	450,000	127,602	1.0	1.0	1.0	2,800	2,690	84,223	0.00275	42	94,500
Oct-16	6.5	5.5	0.0	540,000	153,122	1.0	1.0	1.0	1,740	3,600	81,922	0.00267	35	75,500
Nov-16	7.5	5.5	0.0	540,000	175,295	1.0	0.0	1.5	-	3,770	1,882,904	0.00377	234	497
Dec-16	7.5	4.5	0.0	540,000	183,393	1.0	0.0	1.0	-	4,700	1,661,190	0.0047	256	349
Jan-17	6.0	6.0	0.0	540,000	177,132	1.0	0.0	1.0	-	5,080	72,953	0.00508	255	986
Feb-17	5.5	7.0	0.0	582,500	193,720	1.5	0.0	2.0	-	4,080	1,913,499	0.00409	258	991
Mar-17	7.5	6.5	0.0	630,000	179,599	3.0	0.0	1.0	-	5,400	1,895,714	0.0054	265	019

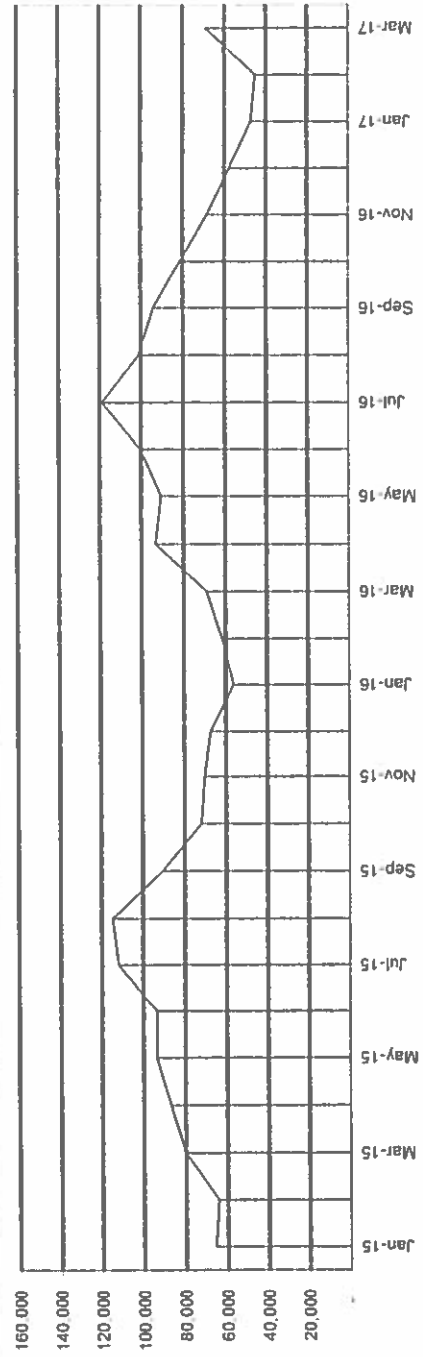


Electric Cost

	Electric Cost	Kilowatts Used
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
Jun-16	9618	100,670
Jul-16	11166	119,020
Aug-16	8627	101,260
Sep-16	5460	94,280
Oct-16	4737	81,500
Nov-16	3903	68,360
Dec-16	3324	57,810
Jan-17	2904	47,480
Feb-17	2796	45,240
Mar-17	4233	69,210



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-17		MO-0103241			#001		Oxidation Ditch/UV/Sludge Holding-sludge is land applied							
INFLUENT					EFFLUENT								% Removal	
DATE	pH UNITS	BOD mg/L	TSS mg/L	TEMP °C	FLOW MGD	pH UNITS	BOD mg/L	TSS mg/L	Ammonia as N mg/l	DO mg/L	E. coli COLFRM #/100 ML	TEMP °C	BOD mg/L	TSS mg/L
1	7.4			14.1	1.254	8.0				5.4		14.1		
2	7.5			13.6	1.361	7.9			0.20	7.5		13.1		
3	7.5	230	244	12.9	1.367	7.9	3.2	2.1		8.1		12.2	98.6	99.1
4	7.5			14.2	1.421	8.0				8.1		12.9		
5	7.3			14.8	1.353	7.9				8.0		13.5		
6	7.4			15	1.287	7.9				9.1		14.2		
7	7.3			14.9	1.470	8.0				6.4		14.4		
8	7.5			13.9	1.422	8.0				6.0		13.6		
9	7.3			14.8	1.336	7.9			0.75	6.1		13.7		
10	7.4	300	480	15	2.026	7.9	3.8	1.9		5.7		13	98.7	99.6
11	7.5			12.9	1.602	7.9				6.2		12.4		
12	7.5			11.8	1.601	7.9				6.1		11		
13	7.5			11.9	1.579	7.9				5.9		12.1		
14	7.3			12.8	1.521	7.9				6.0		11.3		
15	7.5			10.8	1.510	7.8				6.6		10.8		
16	7.6			12.5	1.521	8.0			0.05	6.3		11.2		
17	7.3	248	270	14.6	1.469	7.8	2.9	2.1		6.1		12.4	98.8	99.2
18	7.4			14.9	1.507	7.8				6.1		13		
19	7.3			14.9	1.680	8.0				5.6		13.8		
20	7.3			15.5	1.546	7.9				4.9		14.6		
21	7.3			15.4	1.505	8.0				4.5		15.3		
22	7.4			14.7	1.388	8.0				5.8		14.4		
23	7.3			15.3	1.507	7.9			1.5	5.9		14.6		
24	7.3	248	302	16.1	1.504	7.9	2.5	1.8		5.9		15.7	99.0	99.4
25	7.4			14.8	1.947	7.9				5.9		15.4		
26	7.5			15.2	2.205	7.9				5.8		15.3		
27	7.3			15.3	1.785	7.8				5.6		15.6		
28	7.3			15.7	1.673	7.9				6.0		15.7		
29	7.3			15.9	1.621	7.9			0.11	6.0		15.7		
30	7.4	275	404	15.6	2.229	7.8	2.9	2.3		5.2		15.9	98.9	99.4
31	7.5			15	1.838	7.9				5.6		15.2		
Total					49.035									
Avg		260	340	14	1.582		3.1	2.0	0.52	6.2	0.0	13.7	98.8	99.4
Min	7.3	230	244	11	1.254	7.8	2.5	1.8	0.05	4.5	0.0	10.8	98.6	99.1
Max	7.6	300	480	16	2.229	8.0	3.8	2.3	1.5	9.1	0.0	15.9	99.0	99.6

MONTHLY MONITORING					QUARTERLY MONITORING					
DATE	Oil & Grease mg/L	Selenium ug/L	SM1 Hardness mg/L	SM2 Hardness mg/L	Phosphorus mg/L	SM1 Phosphorus mg/L	T. Nitrogen mg/L	SM1 T. Nitrogen mg/L	TR. Cadmium ug/L	TR. Copper ug/L
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14	< 5.0	< 1.0	284	357	1.7	< 0.10	1.8	0.46	< 5.0	< 10.0
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
Total	< 5.0	< 1.0	284	357	1.70	< 0.10	1.80	0.46	< 5.0	< 10.0
Avg	< 5.0	< 1.0	284	357	1.70	< 0.10	1.80	0.46	< 5.0	< 10.0
Min	< 5.0	< 1.0	284	357	1.70	< 0.10	1.80	0.46	< 5.0	< 10.0
Max	< 5.0	< 1.0	284	357	1.70	< 0.10	1.80	0.46	< 5.0	< 10.0

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				* 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		0.0	-	0	0	1.7	3,430	360	14.1	46	0.35	7:30
2	6,295	0.0	-	0	0	2.1	3,670	460	12.7	34	0	7:30
3	5,246	0.0	-	0	0	2.2	3,910	400	11.7	32	0	7:30
4	3,148	0.0	-	0	0	2.2	3,850	450	13.0	47	0	7:30
5	2,037	0.0	-	0	0	2.2	4,250	540	13.6	59	0	7:30
6	4,937	0.0	-	0	0	1.9	4,420	560	14.6	61	0	7:30
7		0.0	-	0	0	1.3	4,240	550	14.6	50	0.75	7:30
8		0.0	-	0	0	1.7	4,590	590	13.2	38	0	7:30
9	7,036	0.0	-	0	0	1.4	4,540	600	13.2	43	0	7:30
10		0.0	-	0	0	1.4	4,470	540	14.4	37	1	7:30
11		0.0	-	0	0	1.6	4,450	600	12.1	37	0	7:30
12		0.0	-	0	0	1.6	4,570	680	10.7	27	0	7:30
13		0.0	-	0	0	1.5	4,320	610	12.1	42	0.20	7:30
14		0.0	-	0	0	2.1	4,500	630	11.2	32	0	7:30
15		0.0	-	0	0	2.1	4,440	680	10.8	21	0	7:30
16		0.0	-	0	0	1.8	4,670	680	11.0	41	0	7:30
17		0.0	-	0	0	1.4	4,710	710	12.9	51	0	7:30
18		0.0	-	0	0	1.3	4,450	680	13.5	43	0	7:30
19		0.0	-	0	0	1.3	4,400	580	13.9	49	0	7:30
20		0.0	-	0	0	1.6	4,680	700	14.8	55	0	7:30
21		0.0	-	0	0	1.4	4,600	660	15.5	56	0	7:30
22		0.0	-	0	0	1.2	4,390	650	14	44	0	7:30
23		0.0	-	0	0	1.2	4,630	670	14.5	53	0	7:30
24		0.0	-	0	0	1.3	3,610	450	16.1	61	0	7:30
25		0.0	-	0	0	1.4	5,080	710	15.2	51	0.75	7:30
26		0.0	-	0	0	1.4	4,030	510	15.3	51	0.40	7:30
27		0.0	-	0	0	1.3	4,520	580	15.4	55	0.10	7:30
28		0.0	-	0	0	1.4	5,140	760	15.8	55	0	7:30
29		0.0	-	0	0	1.2	5,010	670	15.8	55	0.25	7:30
30	6,110	0.0	-	0	0	1.0	4,880	660	15.7	58	1.00	7:30
31		0.0	-	0	0	1.3	5,400	810	14.8	47	0	7:30

COMMENTS

TESTS PERFORMED BY (PRINT) John Hornback	SIGNATURE 	PHONE # (573)365-0455	DATE 4/10/2017
REPORT APPROVED BY (PRINT) Gary Hutchcraft	SIGNATURE 	PHONE # (573)365-0455	DATE 4/10/2017

*Required Daily (Monday - Friday)

**Required 1/week

PERMITTEE NAME/ADDRESS

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

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

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

MO0103241		001 A	
PERMIT NUMBER		DISCHARGE NUMBER	
MONITORING PERIOD			
YEAR	MO	DAY	YEAR
2017	04	01	2017
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	*****	*****	*****	3.8	3.1	Weekly	24 Hour Composite
Stage Type: End of Pipe	REQRMNT	*****	*****	*****	Weekly Average 45	Monthly Average 30	Weekly	24 Hour Composite
BOD, 5-day, percent removal (01010)	REPORTD	*****	*****	*****	*****	98.8	Monthly	Calculated
Stage Type: End of Pipe	REQRMNT	*****	*****	*****	*****	Monthly Average Minimum 85	Monthly	Calculated
Flow, m. conduit or thru treatment plant (50050)	REPORTD	2.229	1.582	*****	*****	*****	Daily	Total Measured
Stage Type: End of Pipe	REQRMNT	Daily Maximum Monitoring Required	Monthly Average Monitoring Required	*****	*****	*****	Daily	Total Measured
Nitrogen, ammonia total (as N) (00610)	REPORTD	*****	*****	*****	1.5	0.52	Weekly	Grab
Stage Type: End of Pipe	REQRMNT	*****	*****	*****	Daily Maximum 11.5	Monthly Average 2.7	Weekly	Grab
Oil and grease (soxhlet ext.) 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	*****	*****	*****	7.8	8.0	Weekly	Grab
Stage Type: End of Pipe	REQRMNT	*****	*****	*****	Minimum 6.5	Maximum 9.0	Weekly	Grab
Selenium (Se), total recoverable (00901)	REPORTD	*****	*****	*****	<1.0	<1.0	Monthly	Grab
Stage Type: End of Pipe	REQRMNT	*****	*****	*****	Daily Maximum 9.1	Monthly Average 4.0	Monthly	Grab

GENERAL PERMIT REQUIREMENTS OR COMMENTS
OF THE APPLICANT/COMPLAINTS
PURSUANT TO THE PERMIT

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 review of the person or persons who compile the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Operator in Responsible Charge		7305	
TYPED OR PRINTED NAME		CERTIFICATE NUMBER	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	
Gary F. Hutchcraft		573-365-0455	
TYPED OR PRINTED NAME		SIGNATURE	
Date		2017-04-10 10:29:52	

Page 1

PERMITTEE NAME/ADDRESS

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

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

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

MO0103241		001 A	
PERMIT NUMBER		DISCHARGE NUMBER	
MONITORING PERIOD			
YEAR	MO	DAY	YEAR
2017	04	01	2017
FROM		TO	

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM

Parameter		MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Suspended Solids, percent removal (01011)	REPORTD	*****	*****	*****	*****	99.4	Monthly	Calculated
Stage Type: End of Pipe	REQRMNT	*****	*****	*****	*****	Monthly Average Minimum 85	Monthly	Calculated
Total Suspended Solids (TSS) (00510)	REPORTD	*****	*****	*****	2.3	2.0	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
OF THE APPLICANT/COMPLAINTS
PURSUANT TO THE PERMIT

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Operator in Responsible Charge		7305	
TYPED OR PRINTED NAME		CERTIFICATE NUMBER	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	
Gary F. Hutchcraft		573-365-0455	
TYPED OR PRINTED NAME		SIGNATURE	
Date		2017-04-10 10:29:52	

Page 2

PERMITTEE NAME/ADDRESS

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

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

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

4178914300
 4178914399 (fax)

MO0103241	SM2 A
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
YEAR MO DAY	YEAR MO DAY
2017 03 01	2017 03 31

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
 BEFORE COMPLETING THIS FORM

Parameter	MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Hardness, total (as CaCO ₃) (000000)	REPORTED *****		357	*****	Monthly	Grab	
Stage Type: Instream Monitoring	REQUIREMENT *****		Daily Maximum Monitoring Required	*****	Monthly	Grab	
			Monthly Average Monitoring Required				

GENERAL PERMIT REQUIREMENTS OR COMMENTS
 OR ADDITIONAL COMMENTS
 PERMITTEE'S SIGNATURE

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. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

OPERATOR IN RESPONSIBLE CHARGE	
Garv. Hutchcraft	7305
TYPED OR PRINTED NAME	CERTIFICATE NUMBER
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE
Garv. F Hutchcraft	573 365-0455
TYPED OR PRINTED NAME	2017-04-10 10:29:52
SIGNATURE	Date

Page 3

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

2016 - 2017

	October	November	December	January	February	March
L.O. Total MG	5.029	4.357	3.914	3.909	3.812	4.844
L.O. Peak MG	0.199	0.183	0.152	0.174	0.177	0.246
Avg. Daily MG	0.162	0.145	0.126	0.126	0.136	0.156
% Diff.	23%	26%	21%	38%	30%	58%
Rainfall Inches	0.5	1.2	0.8	2.5	0.7	3.8

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

2016 - 2017

	October	November	December	January	February	March
O.B. Total MG	36.156	29.750	23.139	23.440	23.345	36.554
O.B. Peak MG	1.362	1.228	0.883	1.120	1.471	1.626
Avg. Daily MG	1.166	0.992	0.746	0.756	0.834	1.179
% Diff.	17%	24%	18%	48%	76%	38%
Rainfall Inches	0.5	1.2	0.8	2.5	0.7	3.8



Jeremiah W. (Jay) Nixon, Governor • Sara Parker Pauley, Director

DEPARTMENT OF NATURAL RESOURCES

www.dnr.mo.gov

October 2, 2013

Mr. Harold Bono
Magruder Limestone, Inc.
255 Watson Road
Troy, Missouri 63379

Dear Mr. Bono:

Enclosed please find permit #0086-A1 for the expansion at the Lake Ozark Quarry. Because this site is located in an area of concern related to the sewer plant and main sewer lines for the cities of Osage Beach and Lake Ozark, the Missouri Department of Natural Resources, Land Reclamation Program, under direction of the Land Reclamation Commission during its September 26, 2013 meeting is placing five conditions on the permit.

The conditions placed on your permit are:

1. All use of explosives shall be specifically planned and monitored by a licensed blaster under the Missouri Blasting Safety Act and shall only be conducted on weekdays between the hours of 8 a.m. and 5 p.m., Central Daylight, unless documented by an adverse weather condition(s) or any unpredictable hazard. The Permittee shall monitor each detonation with a seismograph at the closest point to the sewer line easement, the closest point to the sewage treatment plant on the Magruder property and also the nearest uncontrolled structure in accordance with Missouri Blasting Safety Act section 11 CSR 40-7.010(9)(G)&(H). All planned detonation of explosives shall not be conducted closer than 200 linear feet to the nearest easement line of the Osage Beach sewer line easement. The Permittee shall also satisfy all other applicable requirements of the Missouri Blasting Safety Act.
2. Requirements under condition 1 shall apply to the entire 205-acre site.
3. The Permittee shall contact the City of Osage Beach administrator's office by telephone 24 hours in advance prior to each blast and provide approximate time of detonation. Telephone contact must be made to a person and not on a voicemail, between the hours of 8:00 a.m. and 5:00 p.m.
4. Elevation of mine floor. The elevation of the floor of the mine (quarry) shall run at or above the grade of the City of Osage Beach's sewer line easement as it crosses the Magruder property at the surface, so that no blasting holes will be drilled to a depth that would be below the elevation of that grade. Permittee shall submit an annual report prepared by a Missouri registered Professional Engineer to verify compliance with this requirement.

Mr. Harold Bono
October 2, 2013
Page Two

5. Permittee shall not pile any rock within 150 feet of the sewer line easement.

Please be aware that in order to be in compliance with the law and regulations enforced by the Missouri Department of Natural Resources, you must conduct your mining operations in accordance with the Mine Plan and the five conditions listed above.

If you have any questions regarding this letter, please do not hesitate to contact me at your convenience. I may be reached by telephone at (573) 751-4041. If you have additional questions or comments that you would like to discuss with our staff please feel free to contact Bill Zeaman at the same telephone number.

Sincerely,

LAND RECLAMATION COMMISSION

A handwritten signature in black ink, appearing to read "K. Mohammadi". The signature is stylized with a large, looped initial "K" and a cursive-style name.

Kevin Mohammadi
Program Director

KM:bzt

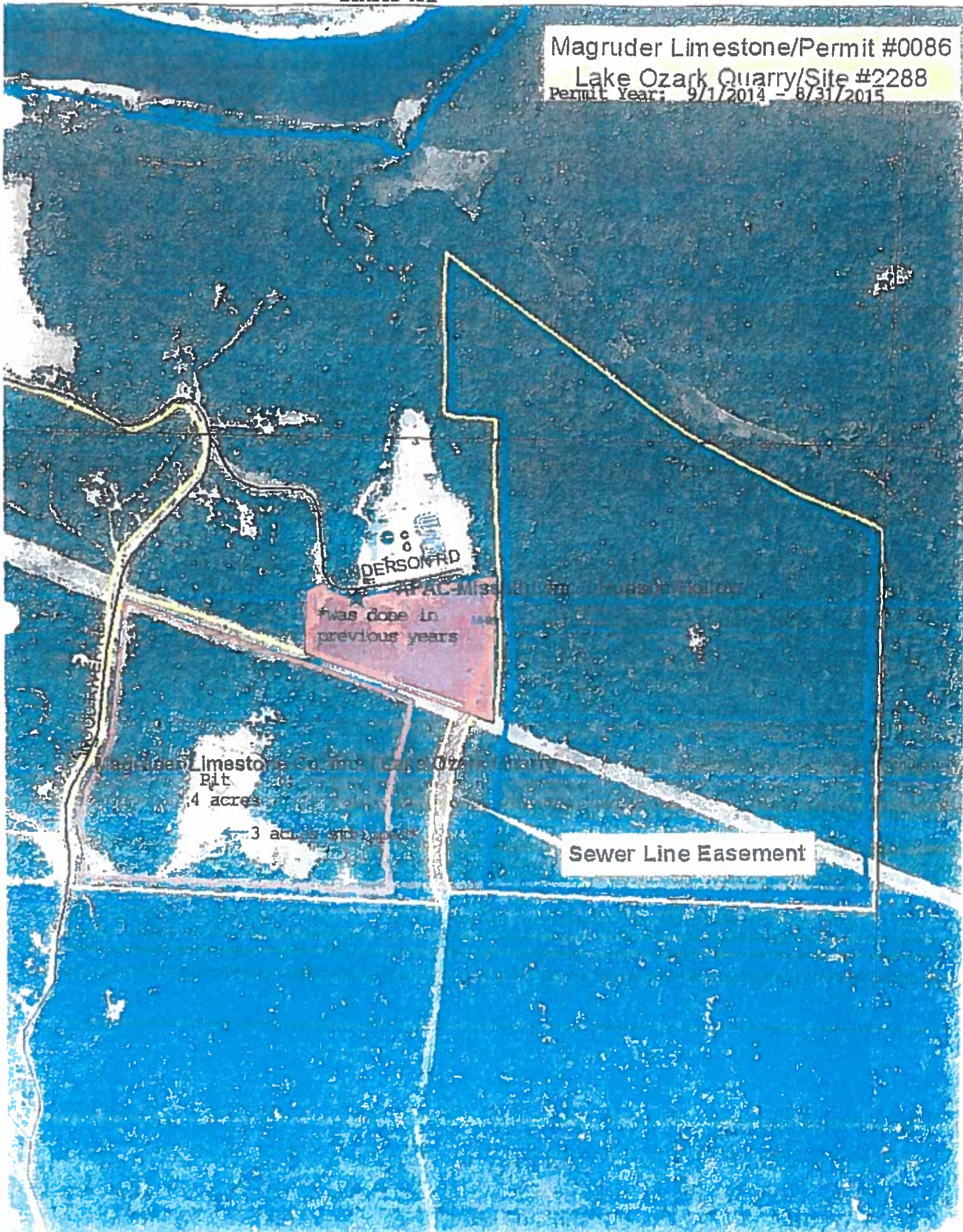
Enclosures: Permit 0861-A1

STATUS MAP

Magruder Limestone/Permit #0086

Lake Ozark Quarry/Site #2288

Permit Year: 9/1/2014 - 8/31/2015



ANDERSON RD

AT AC MISS

ANDERSON FLOW

was done in
previous years

Magruder Limestone Quarry/Site #2288
4 acres

3 acres

Sewer Line Easement

Dave Van Dee

From: john franzeskos <capt45p@live.com>
Sent: Thursday, April 06, 2017 3:28 PM
To: Dave Van Dee
Subject: Fwd: Conditons Inspection

Sent from my Galaxy Tab® A

----- Original message -----

From: Gary Hutchcraft <ghutchcraft@alliancewater.com>
Date: 4/6/17 2:55 PM (GMT-06:00)
To: mayor@cityoflakeozark.net, jolivarri@osagebeach.org
Cc: Gary Johnson <garyjohnson@alliancewater.com>
Subject: Conditons Inspection

Good afternoon all, I just got off the phone with White Industrial Seismology Inc., the company that gave us the quote for the sight conditions inspection back in 2013 and again in 2016. They stated they will honor the same prices as quoted, \$1,200.00 for the conditions inspection and \$500.00 per month for the permanent seismic monitoring program with a 6 month minimum with an early termination fee of \$1,000.00. They said they could get people up here early next week to get this done and it sounds like we may have some blasting going on as early as next week, so do we want to go ahead with both of these proposals? Please let me know ASAP so we can get this on their schedule.

Thanks,

Gary Hutchcraft, Local Manager
Alliance Water Resources, Inc.
LOOB Division
573-365-0455

Dave Van Dee

From: john franzeskos <capt45p@live.com>
Sent: Tuesday, April 11, 2017 2:23 PM
To: Dave Van Dee
Subject: Fwd: Turnkey - Seismic Monitoring Station Purchase and Installation
Attachments: Field Practice Guidelines for Blasting Seismographs 2015.pdf; Mini-Seis III Flyer.pdf; Mini-Seis III (2 Page) Specifications.pdf; Security Enclosures.pdf

Sent from my iPhone

Begin forwarded message:

From: Gary Hutchcraft <ghutchcraft@alliancewater.com>
Date: April 11, 2017 at 11:26:27 AM CDT
To: <jolivarri@osagebeach.org>, <mayor@cityoflakeozark.net>
Cc: Gary Johnson <garyjohnson@alliancewater.com>
Subject: FW: Turnkey - Seismic Monitoring Station Purchase and Installation

FYI

From: Public [<mailto:Public@whiteseis.com>]
Sent: Tuesday, April 11, 2017 11:19 AM
To: ghutchcraft@alliancewater.com
Subject: Turnkey - Seismic Monitoring Station Purchase and Installation

Dear Gary:

Based upon our prior conversations and because your firm has declined an ongoing independent seismic monitoring program by our firm, the following Equipment Purchase and Automatic Reporting Quote is probably your next best option for monitoring the seismic and acoustic effects related to blasting activities conducted near your Osage Beach, MO facilities.

Our quote (**prices good through April 30, 2017**) and additional information is attached and also follows below;

Turnkey/Installed Mini-Seis III Seismic Stations

Mini-Seis III Seismograph (with sensors)	\$ 5,000.00
Station Box	\$ 600.00
Solar Panel with Voltage Regulator	\$ 400.00
External Mount Modem Antenna with Cable	\$ 50.00
Communication Y-Cable for Mini-Seis III Seismograph	\$ 95.00
Raven RV-50 Modem with Installed Activated Sim Card	\$ 725.00
Equipment Delivery & Installation Charges (2 Technicians)	\$ 1,350.00
Subtotal:	\$ 8,220.00 (Eight Thousand Two Hundred Twenty Dollars - USD)

- Notes:
1. The External 12-Volt-Deep Cycle Battery is not Included in the sales quote.
 2. Client is to furnish the External 12-Volt Deep-Cycle Batter and have it available at the arranged day & time of the station installation.
 3. Sales within the state of Missouri require the collection of Missouri State and other required Sales Tax.
 4. Early termination of the Automatic Reporting Services and/or the Termination of the Modem Data Plan will result in a Termination Charge to the client of \$ 150.00 (One Hundred Fifty Dollars – USD).
 5. The monthly fee for Automatic Reporting Services is \$ 75.00 (Seventy Five Dollars – USD) per station or a total annual cost \$ 900.00 (Nine Hundred Dollars – USD) per station.
 6. This quoted price is good through April 30, 2017. After that date it may be subject to change.

As listed in the quote, You would still need to purchase a 12-volt deep-cycle battery for the station.

There is a \$ 75.00 monthly fee for the Automatic Reporting Services. Termination of the Modem Data Plan and Automatic Reporting also will result in a Termination Charge of \$ 150.00 (One Hundred Fifty Dollars – USD).

Since you are located in the State of Missouri, we would also be required to add in the sales tax too.

The estimated monthly cost for one seismic monitoring station set up on Automatic Reporting is \$ 75.00 (Seventy Five Dollars – USD) or an Annual Cost of \$ 900.00 (Nine Hundred Dollars – USD).

As the owner of the equipment, you would also be taking on the responsibility of maintaining the equipment and

Making sure that it is calibrated annually (as recommended by the ISEE (International Society of Explosive Engineers).

Their latest edition of the Field Practice Guidelines for Blasting Seismographs is attached.

Thank you for allowing us to provide you this quote for the purchase of seismic monitoring equipment.

Please don't hesitate to call, should you have any questions.

Very truly yours,

John

John Bowling, Technical Representative
White Industrial Seismology, Inc.
 P.O. Box 1256 / 1206 Schifferdecker

Joplin, MO 64802-1256
 Website: www.whiteseis.com
 E-Mail: jbowling@whiteseis.com
 (800) 641-4538 Toll Free
 (417) 624-0164 Office
 (417) 624-9416 FAX

Turnkey/Installed Mini-Seis III Seismic Stations

Mini-Seis III Seismograph (with sensors)	\$ 5,000.00
Station Box	\$ 600.00
Solar Panel with Voltage Regulator	\$ 400.00
External Mount Modem Antenna with Cable	\$ 50.00
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