

**OSAGE BEACH / LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
AUGUST 18, 2015
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, Jeff Bethurem
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; July 21, 2015

3-4

4. REPORTS

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Check Registers & Bank Statements	29-32
July, 2015 Alliance Report of Operations	33-66

5. OLD BUSINESS

A. Magruder litigation

6. NEW BUSINESS:

A. Bids for pressure washing and painting the buildings. **67**

7. DISCUSSION

8. ADJOURNMENT

THE NEXT MEETING WILL BE SEPTEMBER 15, 2015, 4:00 PM @ LAKE OZARK CITY HALL

**LAKE OZARK - OSAGE BEACH
JOINT SEWER BOARD
Meeting Minutes – July 21, 2015**

Call to Order:

Mayor Penny Lyons called the meeting to order at 4:00 p.m. on Tuesday, July 21, 2015 at Lake Ozark City Hall.

Roll Call:

Penny Lyons, Mayor
Johnnie Franzeskos, Mayor
Dave Van Dee, City Administrator
Jeana Woods, City Administrator
Jeff Bethurem, Alderman
Gerry Murawski, Alderman
Gary Hamner, Resident
Nick Edelman, Public Works Director
Matt Michalik, Public Works Director

Others Present:

Gary Hutchcraft, Plant Manager
Ed Rucker, Osage Beach City Attorney

Minutes of Past Meeting:

Mayor Lyons requested a motion to approve the June 16, 2015 meeting minutes. Mayor Franzeskos motioned to approve the minutes as written. Second by Mr. Murawski with unanimous approval of the remaining Board members.

Public Comment: None at this time.

Bills List: Mr. Hutchcraft advised that there was one additional bill for the third expanded effluent test. Mayor Lyons requested a motion to approve the Bills List. Mr Van Dee motioned approval of amended bills list. Second by Mr. Hamner with unanimous approval of the remaining Board members.

Reports:

REVENUE BUDGET ANALYSIS
EXPENDITURE BUDGET ANALYSIS
INCOME & EXPENSE SUMMARY
CASH FLOW ANALYSIS
BALANCE SHEET
CHECK REGISTERS & BANK STATEMENTS

Alliance Report & Flow Charts:

Mr. Hutchcraft reviewed the June 2015 Alliance Reports and Flow Charts and presented his monthly summary report of operations. Copies of the reports and charts were included in the meeting packet. He also advised that the Annual Operating Permit Application was mailed out on July 1, 2015.

With no questions regarding the Alliance Report, Mayor Lyons then requested a motion to approve the June 2015 Flow Chart. Mayor Franzeskis motioned approval. Second by Mr. Murawski with unanimous approval.

Old Business:

The Board convened into closed session pursuant to RSMo. 610.020(1) to discuss legal matters. After the meeting reconvened into open session, a motion was made by Mayor Franzeskis to approve the filing of a Notice of Appeal in the Magruder matter. His motion was seconded by Mr. Murawski with unanimous approval.

New Business:

2014 Annual Audit Review. After a brief review, a motion was made by Mayor Franzeskis to approve the 2014 Audit. His motion was seconded by Mr. Van Dee with unanimous approval.

Parking lot seacoat & crack filling bids. After review, a motion was made by Mr. Michalik to accept the bid Roadrunners LLC to sealcoat and crack fill the parking lot in the amount of \$1,170.00. His motion was seconded by Mr. Edelman and was then unanimously approved.

Other Discussion: None at this time.

Adjournment:

With nothing further to discuss, Mayor Lyons declared the meeting adjourned at 4:35 pm. The next scheduled meeting is Tuesday, August 18, 2015, 4:00 pm. At Lake Ozark City Hall.

Penny Lyons
Osage Beach Mayor

Kathy Vance
Lake Ozark Joint Sewer Clerk

JOINT SEWER BOARD
BILL LIST
AUGUST 18, 2015

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ 11,977.64
OPERATING FUND BILLS TO BE PAID:	\$ 30,008.06
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ -
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$ 2,850.00
TOTAL	\$ 44,835.70

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:	Amount:
4020	3460	Environmental Analysis South Inc.	3rd Expanded Effluent for Permit Renewal	\$ 1,065.20
4185	3462	Ameren Missouri	July 2015 Electric	\$ 10,912.44
TOTAL				\$ 11,977.64

OPERATING FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4000	3463	Equipment Replacement Fund	Payment into ER Fund	\$ 3,467.17
4170	3464	Alliance Water Resources, Inc.	June 2015 Management Fee	\$ 24,686.09
4160	3465	Alliance Water Resources, Inc.	Hauled Waste	\$ 1,000.00
4020	3466	Alliance Water Resources, Inc.	Patch holes in roof	\$ 89.49
4020	3466	Alliance Water Resources, Inc.	Vapor filter parts kit, 2-way valve	\$ 179.73
4020	3466	Alliance Water Resources, Inc.	Coil cleaning	\$ 81.25
4020	3466	Alliance Water Resources, Inc.	Calibrate flow meters	\$ 187.50
4020	3466	Alliance Water Resources, Inc.	APAC 1" Base	\$ 78.33
4190	3467	Lake Sun Leader	Pressure Washer/Paint Bid Publication	\$ 238.50
				\$ 30,008.06

EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:

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

EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
E/R	3468	JCI Industries, Inc.	Fairbanks Morse Ras Pump	\$ 2,850.00
				\$ 2,850.00



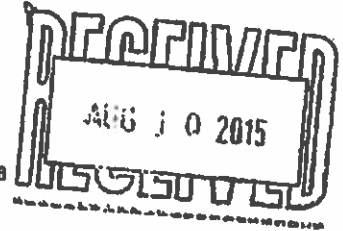
Please Return This Portion With Your Payment.

AMOUNT DUE	DUE DATE
\$10,832.14	Aug 20, 2015
AMOUNT PAID	ACCOUNT NUMBER
\$10,994.62	45800-05832

Amount Enclosed \$ _____

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

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



20600000 0045800058302 000010832140 000010832140

Keep This Portion For Your Records

ACCOUNT NUMBER	45800-05832
NAME	ALLIANCE WATER RESOURCES INC
ADDRESS	3 ANDERSON RD, - LAKE OZARK, MO 65049

DATE	Aug 10, 2015
------	--------------

Aug 20, 2015	\$10,832.14
Aug 31, 2015	\$10,994.62

Payment Received on Jul 22, 2015

\$9,543.67

DATE	TIME	TO	FROM	AMOUNT	REMARKS	DATE	TIME	TO	FROM	AMOUNT	REMARKS
Total kWh	11673321	07/08/08/06	29	29476.0000	30173.0000	697.0000	160.0000	111520.0000A			
Peak kW	11673321	07/08/08/06	29	0.0000	1.4040	1.4040	160.0000	224.6400A			

Service To				SUMMARY		Service To	
Total kWh	08/06/2015	111520.0000	Peak kW	08/06/2015	224.6000		
Billing Demand	08/06/2015	224.6000	Total Billing Demand	08/06/2015	224.6000		

METERED ELECTRIC SERVICE BILLING

Rate 3M Large General Service	Service From 07/08/2015	To 08/06/2015
Demand Charge	224.60 kWh	@ \$4.83000000 \$1,084.82
Energy Charge/Hours Used	33,690.00 kWh	@ \$.10340000 \$3,483.55
Energy Charge/Hours Used	44,920.00 kWh	@ \$.07780000 \$3,494.78
Energy Charge/Hours Used	32,910.00 kWh	@ \$.05230000 \$1,721.19
Customer Charge		\$92.85
Fuel Adjustment Charge	111,520.00 kWh	@ \$.00420000 \$468.38
Energy Efficiency Pgm Charge	111,520.00 kWh	@ \$.00080000 \$89.22
Energy Efficiency Invest Chg	111,520.00 kWh	@ \$.00356300 \$397.35
Total Service Amount		\$10,832.14

Current Amount Due	\$10,832.14
Prior Amount Due	\$0.00
Total Amount Due	\$10,832.14

The ActOnEnergy® BizSavers® program has CASH INCENTIVES available for your next energy efficiency project! Everything from lighting to controls to new construction. Visit ActOnEnergy.com/BizSavers to learn more.

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.



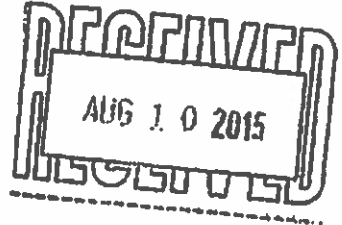
Pure Power

AMOUNT DUE	DUE DATE
\$80.30	Aug 20, 2015
AMOUNT PAYABLE AFTER AUG 31, 2015	ACCOUNT NUMBER
\$81.50	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 000000080300 000000080300

Keep This Portion For Your Records

ACCOUNT NUMBER	55800-05920
NAME	ALLIANCE WATER RESOURCES INC
ADDRESS	3 ANDERSON RD LAKE OZARK, MO 65049

DATE: Aug 10, 2015

TOTAL AMOUNT DUE BY:	Aug 20, 2015	\$80.30
AMOUNT DUE AFTER:	Aug 31, 2015	\$81.50

Payment Received on Jul 22, 2015	\$220.82
----------------------------------	----------

TYPE OF READING	METER LOCATION	DATE AND TIME	NB DAYS SINCE PREVIOUS	READING	DIFFERENCE	REMARKS	UNIT PRICE
Total kWh	98041275	07/08-08/06	29	9053.0000	9105.0000		52.0000
Peak kW	98041275	07/08-08/06	29	0.0000	5.9440		10.0000

Service To		SUMMARY	Service To
Total kwh	00/06/2015	520.0000	

METERED ELECTRIC SERVICE BILLING

**Ratio 2M Sm Gon Svc - 3 Ph w/Dmd
Threshold - Peak Demand**

Service From 07/08/2015 To 08/08/2015

Total Energy Charge	520.00 kWh	@	\$.10810000	\$56.21	
Customer Charge				\$20.43	
Fuel Adjustment Charge	520.00 kWh	@	\$.00420000	\$2.18	
Energy Efficiency Pgm Charge	520.00 kWh	@	\$.00040000	\$0.21	
Energy Efficiency Incent Chg	520.00 kWh	@	\$.00243500	\$1.27	
Total Service Amount					\$80.30

\$80.30

Current Amount Due	\$80.30
Prior Amount Due	\$0.00
Total Amount Due	\$80.30

The ActOnEnergy® BizSavers® program has CASH INCENTIVES available for your next energy efficiency project! Everything from lighting to controls to new construction. Visit ActOnEnergy.com/BizSavers to learn more.

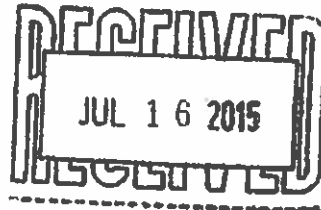
Sign up for Pure Power to support clean renewable energy in Missouri and the Midwest. By checking the box, a 1 cent per kilowatt hour charge will apply. You may cancel at any time.

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

Environmental Analysis South, Inc
4000 East Jackson Blvd. - Jackson MO 63755 - 573-204-8817 - Fax 573-204-8818

Client Invoice

Bill To:
Accounts Payable
Alliance Lake of the Ozarks
% Joint Sewer Board
P.O. Box 1985
Lake Ozarks, MO 65049



Invoice Number 131619

Purchase Order # Verbal

Report To:
Lake Ozark Regional WWTP
Alliance Lake of the Ozarks
P. O. Box 1985

Lake Ozarks, MO 65049

Invoice Date: 7/10/2015
NIICPMS Nickel by ICP/MS
SEICPMS Selenium by ICP/MS
AGICPMS Silver by ICP/MS
TLICPMS Thallium by ICP/MS
CR3 Trivalent Chromium
ZNICPMS Zinc by ICP/MS

Sent Via: US Mail

Terms	30 Net
1	\$30.00 \$30.00
1	\$30.00 \$30.00
1	\$30.00 \$30.00
1	\$30.00 \$30.00
1	\$10.40 \$10.40
1	\$30.00 \$30.00

Analysis Charge Total \$1,050.20

Additional Charges:

Item	Description	Quantity	Unit Cost	Item Total
SHIP	Shipping Charges	15	\$1.00	\$15.00
Other Charge Total				\$15.00
Invoice Total				\$1,065.20

Environmental Analysis South, Inc

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

Client Invoice

Invoice Number 131619

Purchase Order # Verbal

Bill To:

Accounts Payable
Alliance Lake of the Ozarks
% Joint Sewer Board
P.O. Box 1985
Lake Ozarks, MO 65049

Report To:

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

Lake Ozarks, MO 65049

Invoice Date: 7/10/2015 Sent Via: US Mail

Terms 30 Net

Analysis Charges:

Item	Description	Quantity	Unit Cost	Item Total
HARD	Hardness (calculated)	1	\$10.40	\$10.40
CN	Cyanide (total)	1	\$35.00	\$35.00
PHENOL	Phenolics	1	\$38.00	\$38.00
KJL N	Kjeldahl Nitrogen	1	\$25.00	\$25.00
N3N2IC	Nitrate/Nitrite as Nitrogen	1	\$30.00	\$30.00
T PHOS	Phosphorus	1	\$25.00	\$25.00
GCMS BNA	Acid, Base, and Neutral Fractions by GCMS	1	\$240.00	\$240.00
GCMS V	Volatiles by GCMS	1	\$150.00	\$150.00
ICPRP	Anions IC Sample Preparation	1	\$6.00	\$6.00
ICPMS	ICP MS Metals Prep	1	\$15.00	\$15.00
TDS	Total Dissolved Solids	1	\$10.00	\$10.00
SBICPMS	Antimony by ICP/MS	1	\$30.00	\$30.00
ASICPMS	Arsenic by ICP/MS	1	\$30.00	\$30.00
BEICPMS	Beryllium by ICP/MS	1	\$30.00	\$30.00
cdicpms	Cadmium by ICP/MS	1	\$30.00	\$30.00
CAICPMS	Calcium by ICP/MS	1	\$30.00	\$30.00
CRICPMS	Chromium by ICP/MS	1	\$30.00	\$30.00
CUICPMS	Copper by ICP/MS	1	\$30.00	\$30.00
CR6	Hexavalent Chromium	1	\$10.40	\$10.40
PBICPMS	Lead by ICP/MS	1	\$30.00	\$30.00
MGICPMS	Magnesium by ICP/MS	1	\$30.00	\$30.00
HG	Mercury by Cold-Vapor Technique	1	\$25.00	\$25.00

Friday, July 10, 2015

Page 1 of 2

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: 6553

SOLD TO

01-Aug-15

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: Aug-15	
	Base Fee	\$24,686.09
TOTAL DUE		\$24,686.09

Alliance Water Resources, Inc.*Professional Water and Wastewater Operations*

206 South Keene Street

Columbia, Missouri 65201

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

SOLD TO:

Lake Ozark/Osage Beach Joint Utility Board

c/o Karri Bell

City of Osage Beach

1000 City Parkway

Osage Beach, MO 65065

INVOICE

Invoice No: 6551

Invoice Date: 31-Jul-15

Customer No: 20220

Terms: 30 days

REFERENCE	DESCRIPTION	AMOUNT
	Hauled waste payments for the month of Jul-15	
	20 Hauled waste loads @ \$50.00 each	\$1,000.00
TOTAL DUE		\$1,000.00

Alliance Water Resources, Inc.*Professional Water and Wastewater Operations*

208 South Keene Street
Columbia, Missouri 65201
(573) 874-8080 Fax (573) 443-0833

SOLD TO:

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

INVOICE**Invoice No:** 6554**Invoice Date:** 01-Aug-15**Customer No:** 20220**Terms:** 30 days

REFERENCE	DESCRIPTION	AMOUNT
	Jeffries Construction - 1 Invoice	\$89.49
	Smith & Loveless- 2 Invoices - 50%	\$179.73
	Controlled Heating & Cooling - 1 Invoice - 50%	\$81.25
	ECCO Electric - 1 Invoice - 50%	\$187.50
	APAC - 1 Invoice - 50%	\$78.33
TOTAL DUE		\$616.30

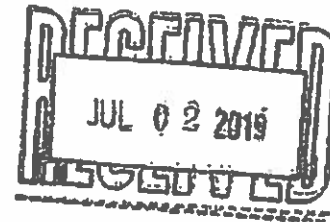
Jeffries Construction LLC

#3 Timber Trails Dr.
Brumley, MO 65017

Invoice

Date	Invoice #
7/1/2015	2014-172

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



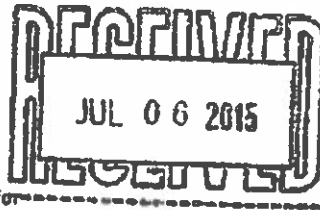
P.O. No.	Terms	Project

Quantity	Description	Rate	Amount
	Labor & Materials to patch holes in roof at the Sewer Treatment Plant.	162.71	162.71
	10% Overhead & Profit	16.27	16.27
GL Acct#: 6700-20 \$89.49 1220-20 \$89.49			
Signature: <u>[Signature]</u>		4620	
Date: <u>7/2/15</u>			
<u>W-9 ATTACHED</u>			
		Total	5178.98



Smith & Loveless, Inc.

14040 Santa Fe Trail Drive
Lenexa, KS 66215-1284, USA
Phn: 913.888.5201
Fax: 913.888.5520
www.smithandloveless.com



No material may be returned to Smith & Loveless for credit or replacement without a return goods authorization.
Contact Parts Dept., 913-888-5201 ext 243.

INVOICE 103935

SALES ORDER NO. PS80526	DATE INVOICED 06/26/15
PACKING SLIP NO. PS80526*1	DATE SHIPPED 06/26/15
CUSTOMER PURCHASE ORDER NO. VERBAL/GARY	
SALES REPRESENTATIVE MUNICIPAL EQPT CO	CODE CB
SHIPPED VIA UPS GROUND	PPD ☒ COL ☐
PAYMENT TERMS NET 30	TAX ☒ TAX CODE MO

SOLD TO 10*13552 ALLIANCE WATER RESOURCES (see CM comments) #3 ANDERSON RD PO BOX 1985 LAKE OZARK MO 65049 USA	SHIP TO 10*13552 ALLIANCE WATER RESOURCES #3 ANDERSON RD LAKE OZARK, MO 65049 USA
--	---

ITEM	PRODUCT/DESCRIPTION	QTY ORDERED	QTY SHIPPED	QTY B.O.	UNIT PRICE	TOTAL PRICE
001	H87A321A VAPOR FILTER PARTS KIT	1	1		101.07000	101.07
Chg	FRP PARTS FREIGHT FREIGHT FOR PARTS ORDERS		1			9.94

VERBAL ORDER PER GARY HUTCHCRAFT 06/24/15
PH: 573-365-0455
EMAIL: ghutchcraft@alliancewater.com
S/N NOT PROVIDED

GL Acct#: 6705-20 \$59.78 1020-20 \$55.51
Signature: [Signature] 4020
Date: 7/6/15

REMIT TO:
Smith & Loveless, Inc.
P.O. BOX 2383
Shawnee Mission, Ks 66201

Form No. 04-04-631

ATTN: If we have charged State and local sales taxes, and you are tax exempt, please forward with your remittance a copy of your exemption certificate.

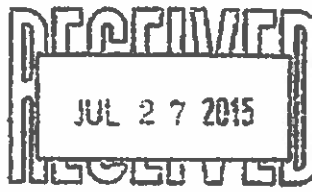
SUBTOTAL	111.01
DISCOUNT	0.00
TAX	4.27
Credit	0.00
US Dollars	115.28

Customer



Smith & Loveless, Inc.

14040 Santa Fe Trail Drive
Lenexa, KS 66215-1284, USA
Phn: 913.888.5201
Fax: 913.888.5520
www.smithandloveless.com



INVOICE 104502

SALES ORDER NO. PS80979		DATE INVOICED 07/23/15	
PACKING SLIP NO. PS80979*1		DATE SHIPPED 07/23/15	
CUSTOMER PURCHASE ORDER NO. VERBAL GARY			
SALES REPRESENTATIVE MUNICIPAL EQPT CO			CODE CB
SHIPPED VIA UPS GROUND			PPD ☒ COL ☐
PAYMENT TERMS NET 30			TAX ☒ TAX CODE MO

No material may be returned to Smith & Loveless for credit or replacement without a return goods authorization.
Contact Parts Dept., 913-888-5201 ext 243.

SOLD TO	10*13552 ALLIANCE WATER RESOURCES (see CM comments) #3 ANDERSON RD PO BOX 1985 LAKE OZARK MO 65049 USA	SHIP TO	10*13552 ALLIANCE WATER RESOURCES ATTN: GARY #3 ANDERSON RD LAKE OZARK, MO 65049 USA

ITEM	PRODUCT/DESCRIPTION	QTY ORDERED	QTY SHIPPED	QTY S.O.	UNIT PRICE	TOTAL PRICE
001	1L645B VALVE SOL 2 WAY BRS 3/8 FEM NC 120 VAC/60 HZ DIR ACT W/ 1/2 COND CONN	1	1		216.19000	216.19
002	5L181A FITTING HUB COND WP 1/2	1	1		18.23000	18.23
003	1L9D NIPPLE GALV 1/2 X CLOSE	1	1		3.96000	3.96
004	12L318DVD-1 VIDEO - REPLACING A S&L SINGLE MECH SEAL PROMOTION	1	1		0.00000	0.00
Chg	FRP PARTS FREIGHT FREIGHT FOR PARTS ORDERS		1			10.05

VERBAL ORDER PER GARY HUTCHCRAFT 07/22/2015.
PHN: (573) 365-0455 EMAIL: GHUTCHCRAFT@ALLIANCEWATER.COM
S/N NOT PROVIDED

For PISTA
GRIT SYSTEM
GL Acct#: 6705-20*134.28 1220-20*124.22
Signature: *[Signature]* 4020
Date: 7/27/15

REMIT TO:

Smith & Loveless, Inc.
P.O. BOX 2383
Shawnee Mission, Ks 66201

Form 104 04-04-670

ATTN: If we have charged State and local sales taxes, and you are tax exempt, please forward with your remittance a copy of your exemption certificate.

SUBTOTAL	248.43
DISCOUNT	0.00
TAX	10.07
Credit	0.00
US Dollars	258.50

Customer

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

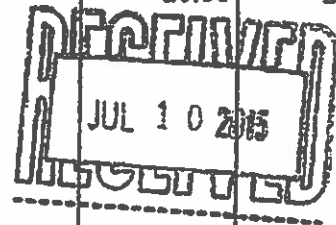
Date	Invoice
7/10/2015	6786

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

*Celebrating 31 Years
 1983 - 2014*

P.O. No.	Terms	Project
	Due on receipt	

Description	Qty	Rate	Amount
Labor - Shop	1.5	95.00	142.50
Coil Cleaner/Use		20.00	20.00
Remove enclosure on LG window unit. Cleaned and hosed out extremely dirty coils. Sprayed numerous times with coil cleaner. Checked operation. Unit has high pressure control to kick out compressor when coils getr clogged up.			
GL Acct#: <u>6705-20 \$81.25</u> <u>1220-20 \$81.25</u> Signature: <u>[Signature]</u> 4020 Date: <u>7/16/15</u>			
Thank you for your business.	Total \$162.50		



Ecco Electric LLC

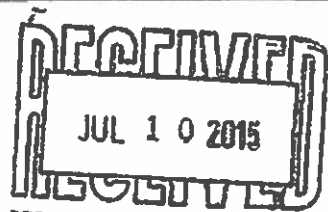
P.O. Box 981
Osage Beach, MO 65065

Phone # 573-348-1798

scott@eccoelectric.net
www.eccoelectric.net

Date	Invoice #
7/8/2015	1801

Bill To
ALIANCE WATER RESOURCES P.O. BOX 1985 LAKE OZARK, MO 65049

Ship To


P.O. Number	Terms	Rep	Ship	Via	F.O.B.	Project
	Due on receipt		7/8/2015			
Quantity	Item Code	Description	Price Each	Amount		
1	16 Electrical & LI...	CALIBRATE FLOW METERS Out-of-state sale, exempt from sales tax GL Acct#: <u>16705-20 \$187.50</u> Signature: <u>[Signature]</u> Date: <u>7/10/15</u>	375.00 0.00%	375.00 0.00		
			1220-20 \$187.50 4020			
			Total	\$375.00		

APAC Missouri, Inc.
Missouri Division
PO Box 23910
Overland Park, KS 66283
Phone: 913-814-6700



www.apac-ksmo.com

ALLIANCE WATER RESOURCES - LAKE
#3 ANDERSON RD
PO BOX 1985
LAKE OZARK, MO 65049-1985

Customer Number	Invoice Date	Invoice Number	Customer Job	Receivable
252929	07/10/15	9000272895	WOODRIVER T PL	5
Customer PO Number		00037	Stone - Bagnell (Blue Spring)	MO131A
Ship to				

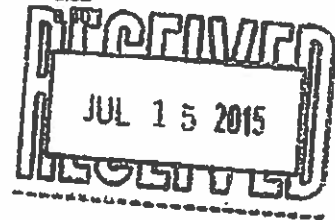
Page 1 of 1

TOTALS	Product Cost	Freight	Quantity	Tax	Total
	\$81.65	\$75.00	14.20	\$4.67	\$161.32

Date	Invoice Number	Product Code	Product Description	Unit	Quantity	Price	Tax	Amount
07/10/15	988704	032485	1" BASE/ 1" MINUS	TON	14.20	5.75	4.67	86.32
07/10/15	988704		HaulCode - 31	TON	1.00	75.00	0.00	75.00
07/10/15	988704	998250	ENERGY SURCHARGE	EA	14.20	0.00	0.00	0.00

Invoice Taxing Authority Summary:
MO State Tax
MO Miller County
MO Miller County Ambulance Dis

3.45
0.82



GL Acct#: 4700-20 \$82.99 1220-20 \$78.33
Signature: *[Signature]* 4020
Date: 7/15/15

ALLIANCE WATER RESOURCES - LAKE
#3 ANDERSON RD
PO BOX 1985
LAKE OZARK, MO 65049-1985

Invoice Number	Invoice Date	Customer Number	Invoice Amount
9000272895	07/10/15	252929	\$161.32



Terms: Our terms are Net 30 Days. We will assess up to the states legal maximum rate for finance charges on delinquent accounts.

Remit To:
APAC Missouri, Inc.
Missouri Division
PO Box 24087
Overland Park, KS 66283-4087

Please tear off and return this remittance coupon with your payment so it can be applied correctly.

Lake Sun



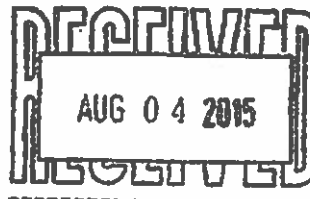
LAKE SUN LEADER

GATEHOUSE MEDIA MO HOLDINGS, INC.
Legal Advertising Invoice

918 N. Business Route 5
Camdenton, MO 65020-0980
573-317-8151 FAX 573-346-4508

JOINT SEWER BOARD
PO BOX 1985
LAKE OZARK, MO 65049

RE: BID-PRESSURE WASH/ PAINT
PN: 19397
ACCT# 86691



AFFIDAVIT OF PUBLICATION
(State of Missouri)

) SS
(County of Camden)
I, JOYCE MILLER, BEING DULY SWORN ACCORDING TO
LAW, STATE THAT I AM (REGIONAL EDITOR) OF THE
LAKE SUN LEADER, A DAILY NEWSPAPER OF GENERAL
CIRCULATION IN THE COUNTY OF CAMDEN, MISSOURI,
WHERE LOCATED; WHICH HAS BEEN ADMITTED TO THE
POST OFFICE AS PERIODICAL MATTER IN THE CITY OF
CAMDENTON, THE CITY OF PUBLICATION: WHICH
NEWSPAPER HAS BEEN PUBLISHED REGULARLY AND
CONSECUTIVELY FOR A PERIOD OF THREE YEARS AND
HAS A LIST OF BONAFIDE SUBSCRIBERS VOLUNTARILY
ENGAGED AS SUCH WHO HAVE PAID OR AGREED TO PAY
A STATED PRICE FOR A SUBSCRIPTION FOR A DEFINITE
PERIOD OF TIME, AND THAT SUCH NEWSPAPER HAS
COMPLIED WITH THE PROVISIONS OF COMMITTEE
SUBSTITUTE FOR SENATE BILL 39 ENACTED BY THE
FIFTY-NINTH GENERAL ASSEMBLY OF THE STATE OF
MISSOURI. THE AFFIXED NOTICE APPEARED IN SAID
NEWSPAPER ON THE FOLLOWING CONSECUTIVE WEEKS
(ISSUES).

FROM: 08/03/2015 TO: 08/03/2015
VOL 136 NO 149 DAY OF AUGUST 03, 2015

SIGNED: _____
JOYCE MILLER (REGIONAL EDITOR)

PUBLICATION FEE DUE: \$ 238.50
SUBSCRIBED AND SWORN TO BEFORE ME THIS
03 DAY OF AUGUST, 2015.

SIGNED: _____ (NOTARY PUBLIC)
DEBBIE FRANKLIN
NOTARY PUBLIC STATE OF MISSOURI, CAMDEN COUNTY

MY COMMISSION EXP. APRIL 29, 2017

Payment is due upon receipt of this invoice.
Proof of Publication is available on or after the last day of publication.
After payment is received, signed & notarized affidavit will be issued.

Remit To:

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



INVOICE

INVOICE	
8109693	
Invoice Date	Page
07/28/2015	1 of 1
ORDER NUMBER	
1095749	

Branch 06

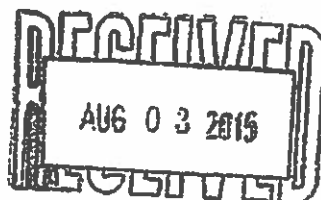
JEFFERSON CITY

Bill To:

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

Ship To:

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



Customer ID: 400263

PO Number					Term Description		Net Due Date		
GARY HUTCHCRAFT 7-28-15					Net 30		8/27/2015		
Order Date		Pick Ticket No		Primary Salesrep Name			Order Taker		
7/8/2015 14:34:38		3103617		Ben Reinkemeyer JI			HHASKELL		
Quantities					Item ID		Pricing		
Ordered	Shipped	Remaining	UOM	Days	Item Description		UOM	Unit Price	Extended Price
			Unit Size				Unit Size		
1.00	1.00	0.00	EA		P AWR OSAGE BEACH 7-8-15		EA	2,850.00	2,850.00
			1.0		FAIRBANKS MORSE RAS PUMP		1.0000		

Total Lines: 1

SUB-TOTAL: 2,850.00

TAX: 0.00

AMOUNT DUE: 2,850.00

4020

Carrier: JCI TO DELIVER

Tracking #:

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

ORIGINAL

12 11 911, 11/19/2012

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

Account Number	Account Name	7/31/2015				Percent YTD
		2013 Actual	2014 Actual	2015 Budget	2015 Actual as of 7/31/2015	2015 July Revenue
3020	Osage Beach	452,145.77	464,343.06	467,500.00	278,259.12	39,438.05
3010	Lake Ozark	92,854.22	85,716.93	82,500.00	42,574.21	6,395.29
3100	Interest	34.50	31.18	30.00	27.62	4.86
3060	Waste Haulers' Fee	41,460.00	34,340.00	38,000.00	18,280.00	4,300.00
Total Operating Fund		586,494.49	584,431.17	588,030.00	339,140.95	50,138.20
E/R Fund Income		1,320.11	1,025.06	1,200.00	588.90	59.19
TOTAL INCOME		587,814.60	585,456.23	589,230.00	339,729.85	50,197.39
						58%

**MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
7/31/2015**

Account Number	Account Name	2013 Actual	2014 Actual	2015 Budget	2015 Actual as of 7/31/2015	2015 July Expenses	Percent YTD
4000	Equipment Replace Fund	41,606.04	41,606.04	41,606.04	24,270.19	3,467.17	58%
4010	ERF Repayment	27,961.44	0.00	0.00	0.00	0.00	
4020	*Maintenance & Repair	19,273.37	58,873.44	88,800.00	8,724.03	6,123.70	10%
4140	Insurance	15,489.00	16,502.00	17,000.00	16,306.00	0.00	96%
4150	***Vehicle Repair/Maint	1,352.11	9,186.16	3,000.00	907.34	417.67	30%
4160	Haulers Fees to Contractor	8,000.00	8,000.00	8,000.00	7,000.00	1,850.00	88%
4170	Contract Management	281,409.84	288,445.08	295,657.05	172,802.63	24,686.09	58%
4185	Electric	71,923.84	70,366.40	75,000.00	40,271.34	9,772.49	54%
4200	Audit	1,750.00	1,900.00	2,000.00	2,000.00	2,000.00	100%
4220	Professional Service	119,683.73	43,038.41	30,000.00	0.00	0.00	0%
4240	Capital Purchases	5,748.00	0.00	30,000.00	0.00	0.00	0%
	Totals	594,197.37	537,917.53	591,063.09	272,281.53	48,317.12	46%
	**E/R Expenses	4,260.00	9,429.93	17,000.00	221.10	221.00	1%

TOTAL EXPENSES

598,457.37	547,347.46	608,063.09	272,502.63	48,538.12	45%
------------	------------	------------	------------	-----------	-----

****Equipment & Replacement**

Normal E/R	10,000.00
Rebuild Arm Support Clarifier #1 & 2	5,000.00
Replace doors	2,000.00
	<u>17,000.00</u>

*****Vehicle Repair/Maint**

Vehicle Maintenance	3,000.00
	<u>3,000.00</u>

***Maintenance & Repair**

Auto Dialer Yrly Software Fee	500.00
Expanded Effluent testing Renewal Fee	1,000.00
Normal Maintenance	8,000.00
UV Spare Parts	8,000.00
Backup Hach Do meter & probe	2,100.00
Parking Lot Sealing & Crack filling	1,200.00
Painting all 5 Buildings inside fence	10,000.00
Rock for Road	2,000.00
Strip and refinish tile in Admin Bldg	1,000.00
#1 Aeration Basin grit removal	55,000.00
	<u>88,800.00</u>

**OPERATING FUND INCOME AND EXPENSE SUMMARY
7/31/2015**

Beginning Balance	136,509.06
Income - Osage Beach	39,438.05
Income - Lake Ozark	6,395.29
Income - Other	0.00
Income - Waste Haulers' Fees	4,300.00
Interest - Checking	4.86
Income - CD Interest	0.00
Transfers From E/R Fund	0.00
Transfers to E/R fund	-3,467.17
Expenses	-43,784.75
Ending Fund Balance	139,395.34
NOW Account - Central Bank	142,460.54
Outstanding Checks:	-3,065.20
Deposit in Transit:	0.00
	139,395.34

**EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
7/31/2015**

Beginning Balance	430,332.81
Interest - Checking	59.19
Income - CD Interest	380.91
Transfers From E/R Fund	0.00
Transfers to E/R Fund	3,467.17
Income - Miscellaneous	0.00
Expenses	-221.10
Ending Fund Balance	434,018.98
NOW Account - First Bank	133,733.71
CD Providence Bank, 10/16 #1268880	200,047.87
CD First Bank of the Lake, 01/16 #101318429	100,237.40
Deposit in Transit	0.00
Outstanding Checks:	0.00
	434,018.98

001120

Return Service Requested

[illegible]

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

Period	Page
07/01/2015-07/31/2015	1 of 2

Web Address
www.cbolobank.com

M M 7

Your Financial Summary on July 31, 2015

Account Balances & Other Assets

Checking	\$ 142,460.54
Total	\$ 142,460.54

Detailed Explanation of Account Balances and Other Assets

Basic Plus Interest Checking

Beginning Balance June 30, 2015	\$	136,509.06
--	-----------	-------------------

Deposits

July 20 Deposit	6,395 29
July 20 Deposit	39,438 05
July 23 Deposit	4,300 00
July 27 Deposit	113,877 85
July 31 Interest Earned	4 86

Total	+\$	164,016.05
--------------	------------	-------------------

Checks

Check No.	Date Paid	Amount	Check No	Date Paid	Amount
3452	July 23	9,772 49	3456	July 23	592 37
3453	July 23	3,467 17	3457	July 28	3,818 60
3454	July 23	24,686 09	3461	July 28	113,877.85
3455	July 23	1,850 00			

Total	\$	158,064.57
--------------	-----------	-------------------

Ending Balance July 31, 2015	\$	142,460.54
-------------------------------------	-----------	-------------------

Number of days since last statement/interest cycle	31
Beginning and ending dates for calculation of statement/interest cycle are 07/01/2015 through 07/31/2015	
Average collected balance	143,154 00
Interest rate	0 04%
Annual percentage yield earned	0 04%

Operating Fund

CHECK REGISTER - JOINT SEWER BOARD OPERATION FUND

	reconciled balance 3/31/15			102,931.98
3435	Xylon Water Solutions	X	2,864.54	100,067.44
3436	Ameren UE	X	4,820.60	95,246.84
3437	Equipment Replacement Fund	X	3,467.17	91,779.67
3438	Alliance Water Resources, Inc.	X	550.00	91,229.67
3439	Alliance Water Resources, Inc.	X	24,686.09	-
3440	Alliance Water Resources, Inc.	X	682.45	66,543.58
	Deposit LO	X	6,263.06	65,861.13
	Deposit OB	X	39,570.27	72,124.19
	Deposit	X	2,300.00	111,694.46
	Interest	X	3.79	113,994.46
	reconciled balance 4/30/15			113,998.25
3441	Ameren MO	X	5,084.15	113,998.25
3442	Equipment Replacement Fund	X	3,467.17	108,914.10
3443	Alliance Water Resources, Inc.	X	1,150.00	105,446.93
3444	Alliance Water Resources, Inc.	X	24,686.09	104,296.93
3445	Alliance Water Resources, Inc.	X	661.85	79,610.84
	Deposit LO	X	-	78,948.99
	Deposit OB	X	5,947.36	84,896.35
	Deposit Insurance Refund	X	39,885.98	124,782.33
	Deposit	X	429.00	125,211.33
	Interest	X	2,600.00	127,811.33
	reconciled balance 5/31/15		4.30	127,815.63
3446	Ameren MO	X	8,707.19	127,815.63
3447	Equipment Replacement Fund	X	3,467.17	119,108.44
3448	Alliance Water Resources, Inc.	X	24,686.09	115,641.27
3449	Alliance Water Resources, Inc.	X	1,300.00	90,955.18
3450	Alliance Water Resources, Inc.	X	1,598.79	89,655.18
3451	Environmental Analysis South	X	1,065.20	-
	Deposit LO	X	-	88,056.39
	Deposit OB	X	6,312.50	86,991.19
	Deposit	X	39,520.83	93,303.69
	Interest	X	3,680.00	132,824.52
	reconciled balance 6/30/15		4.54	136,504.52
3452	Ameren MO	X	9,772.49	136,509.06
3453	Equipment Replacement Fund	X	3,467.17	136,509.06
3454	Alliance Water Resources, Inc.	X	24,686.09	126,736.57
3455	Alliance Water Resources, Inc.	X	1,850.00	123,269.40
3456	Alliance Water Resources, Inc.	X	592.37	98,583.31
3457	UV Doctor Lamps LLC	X	3,818.60	96,733.31
	Deposit	X	-	96,140.94
3458	Providence Bank	X	113,877.85	-
	Deposit LO	X	-	92,322.34
	Deposit OB	X	6,395.29	206,200.19
	Deposit	X	39,438.05	92,322.34
	Interest	X	4,300.00	98,717.63
	reconciled balance 7/31/15		4.86	138,155.68
				142,455.68
				142,460.54
				142,460.54



4446 Osage Beach, Mo. 65065
City Branch, 1st Floor
616-314-3200

536 00010 26
ACCOUNT:
DOCUMENTS:

PAGE: 1
07/31/2015

3

66

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

Effective June 1, 2015, an account will become Inactive after (6) six months of customer inactivity and Dormant after (12) twelve months of customer inactivity. The monthly fee of \$5 for inactive accounts and \$10 for dormant accounts will not change.

BUSINESS MMDA ACCOUNT

LAST STATEMENT 06/30/15 139,750.78
2 CREDITS 3,526.36
2 DEBITS 9,543.43
THIS STATEMENT 07/31/15 133,733.71

REF #.....DATE.....AMOUNT REF #.....DATE.....AMOUNT REF #.....DATE.....AMOUNT
07/22 3,467.17

DESCRIPTION DATE AMOUNT
INTEREST 07/31 59.19

CHECK #..DATE.....AMOUNT CHECK #..DATE.....AMOUNT CHECK #..DATE.....AMOUNT
1009 07/23 221.10 1010 07/28 9,322.33

AVERAGE LEDGER BALANCE: 139,602.15 INTEREST EARNED: 59.19
AVERAGE AVAILABLE BALANCE: 139,378.46 DAYS IN PERIOD: 31
INTEREST PAID THIS PERIOD: 59.19 ANNUAL PERCENTAGE YIELD EARNED: .50%
INTEREST PAID 2015: 317.72

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

JSB - CHECK REGISTERS 2015

CHECK REGISTER - JOINT SEWER BOARD EQUIPMENT REPLACEMENT FUND

				reconciled balance 7/31/14	106,751.87
				Interest X	16.70 106,768.57
1007				Check X 4,445.00	102,323.57
				Deposit X	3,467.17 105,790.74
				reconciled balance 8/31/14	105,790.74
				Interest X	18.64 105,809.38
				Deposit X	3,467.17 109,276.55
				reconciled balance 9/30/14	109,276.55
				Interest X	18.71 109,295.26
				Deposit X	3,467.17 112,762.43
				reconciled balance 10/31/14	112,762.43
				Interest X	17.32 112,779.75
1008				Check X 2,756.75	110,023.00
				Deposit X	3,467.17 113,490.17
				reconciled balance 11/30/14	113,490.17
				Interest X	20.64 113,510.81
				Deposit X	3,467.17 116,977.98
				reconciled balance 12/31/14	116,977.98
				Deposit X	101,711.25 218,689.23
				Deposit X	3,467.17 222,156.40
				CD X 100,000.00	122,156.40
				Interest X	19.88 122,176.28
				reconciled balance 1/31/15	122,176.28
				Deposit X	3,467.17 125,643.45
				Interest X	18.78 125,662.23
				reconciled balance 2/28/15	125,662.23
				Deposit X	3,467.17 129,129.40
				Interest X	53.45 129,182.85
				reconciled balance 3/31/15	129,182.85
				Deposit X	3,467.17 132,650.02
				Interest X	53.23 132,703.25
				reconciled balance 4/30/15	132,703.25
				Deposit X	3,467.17 136,170.42
				Interest X	52.91 136,223.33
				reconciled balance 5/31/15	136,223.33
				Deposit X	3,467.17 139,690.50
				Interest X	60.28 139,750.78
				reconciled balance 6/30/15	139,750.78
				Interest X	59.19 139,809.97
1009				Check X 221.10	139,588.87
1010				Check X 9,322.33	130,266.54
				Deposit X	3,467.17 133,733.71
				reconciled balance 7/31/15	133,733.71



**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
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

TENNESSEE

South Fulton

REPORT OF OPERATIONS

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

Month of July 2015

Submitted by Alliance Water Resources, Inc. for the

August 2015

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	1.7	1.8	NA	< 20		.12	<5.0	
Peak Day	2.4	4.2	8.0	< 20		.30	<5.0	
Percent Removal	99.2	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		1.2	10	4.0
Weekly Average	45	45		630				
Daily Max						5.6	15	8.1

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 2.495 MGD or 83% 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 135590 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.

209,587 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 666,250 gallons with a level of 6.5 feet in Tank 1 and 6.5 feet in Tank 2.

WASTEHAULERS

The plant received 42 loads of septage during the month totaling 104,000 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.

WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Antero Maintenance Data Management schedule. (New version of Operator 10 Software)
- We had to change out the AC unit in the UV room with the new backup unit on the 6th of July. We took the one that shut down up to Controlled Heating & Cooling and they found that the inside of the outside coils was plugged up with little flying insects and was able to clean it up and get it operating again. We installed a bug screen on the outside housing of the new backup unit to see if that would keep the little critters from getting inside and plugging up the coils again.
- We had to change out the check valve on the top of the UV air compressor with the spare on the 14th of July.
- We put the sludge truck in the shop on the 17th of July to have to air conditioner checked out. He found that the low pressure valve was bad, so he ordered one and it got put back order. He finally got it in on the 29th and installed it on the 30th, and we picked the truck up on the 31st.
- We noticed the pista grit system was not operating properly on the 21st of July so we troubleshooted it and found the solenoid valve was not working. We ordered a replacement and got it in on the 25th. We got it installed and back in service on the 28th.
- We changed out 3 UV bulbs on the 30th of July.

SAFETY

- We conducted our monthly routine Safety Meeting on Excavation Safety on the 2nd of July.

REGULATORY AGENCY, INSPECTION AND REPORTS

- We filled out the EDMR on MDNR website on the 6th of August.
- We received the results for our annual lab DMRQA Study 35 on the 31st of July and all the results were acceptable, which is very good. (see attachment)
- We also received the results for our annual WET Test on the 31st of July and we passed with 100% survival with both species, which is excellent. (see attachment)

MISCELLANEOUS AND RECOMMENDATIONS

- We would like to Thank Nick and the City of Osage Beach for sending a crew with their service truck out to lift the RAS pump out of the RAS basement.
- We would also like to Thank Matt and the City of Lake Ozark for sending their road crew out to fix the washouts on the road coming into the plant during the heavy rains and for sending their crew with their service truck out to set the RAS pump back into the RAS basement.

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF **July** **2015**

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-Jul	2.3	0.334	1.973	2.307	14.5	85.5	188	158	193	132	148	282
2-Jul	1.6	0.988	4.496	5.484	18.0	82.0						
3-Jul	0	0.544	3.079	3.623	15.0	85.0						
4-Jul	0	0.469	2.697	3.166	14.8	85.2						
5-Jul	0	0.419	2.212	2.631	15.9	84.1						
6-Jul	0	0.351	2.052	2.403	14.6	85.4						
7-Jul	0.75	0.314	2.283	2.597	12.1	87.9						
8-Jul	1.1	0.297	2.419	2.716	10.9	89.1						
9-Jul	1.5	0.821	3.775	4.596	17.9	82.1						
10-Jul	0.75	0.411	2.408	2.819	14.6	85.4	63	85	115	44	76	160
11-Jul	0	0.400	2.320	2.720	14.7	85.3						
12-Jul	0	0.332	2.088	2.420	13.7	86.3						
13-Jul	0	0.287	1.859	2.146	13.4	86.6						
14-Jul	0	0.233	1.736	1.969	11.8	88.2						
15-Jul	0	0.248	1.712	1.960	12.7	87.3						
16-Jul	0	0.231	1.612	1.843	12.5	87.5						
17-Jul	0	0.269	1.816	2.085	12.9	87.1	218	170	255	234	166	404
18-Jul	0	0.282	1.942	2.224	12.7	87.3						
19-Jul	0	0.325	2.105	2.430	13.4	86.6						
20-Jul	1.7	0.280	1.903	2.183	12.8	87.2						
21-Jul	0	0.496	2.596	3.092	16.0	84.0						
22-Jul	0	0.234	1.676	1.910	12.3	87.7						
23-Jul	0	0.197	1.587	1.784	11.0	89.0						
24-Jul	0	0.255	1.635	1.890	13.5	86.5	183	205	248	142	228	316
25-Jul	0	0.292	1.861	2.153	13.6	86.4						
26-Jul	0	0.318	1.956	2.274	14.0	86.0						
27-Jul	0	0.307	1.868	2.175	14.1	85.9						
28-Jul	0	0.246	1.888	2.134	11.5	88.5						
29-Jul	0	0.230	1.600	1.830	12.6	87.4						
30-Jul	0	0.229	1.650	1.879	12.2	87.8						
31-Jul	0	0.232	1.670	1.902	12.2	87.8	190	253	240	108	252	284
SUM	9.7	10.871	66.474	77.345								
AVG		0.351	2.144	2.495	14	86	168	174	210	132	174	289
NOTE: BOLD PRINT INDICATES WEEKEND DAYS												

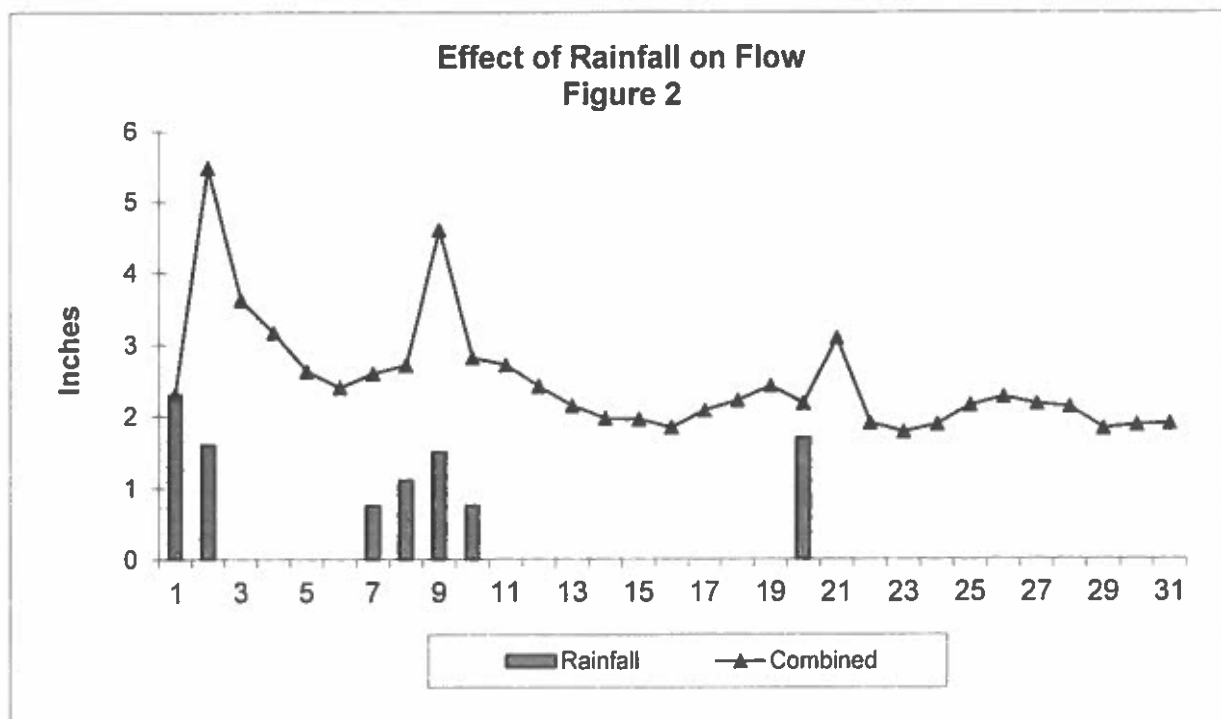
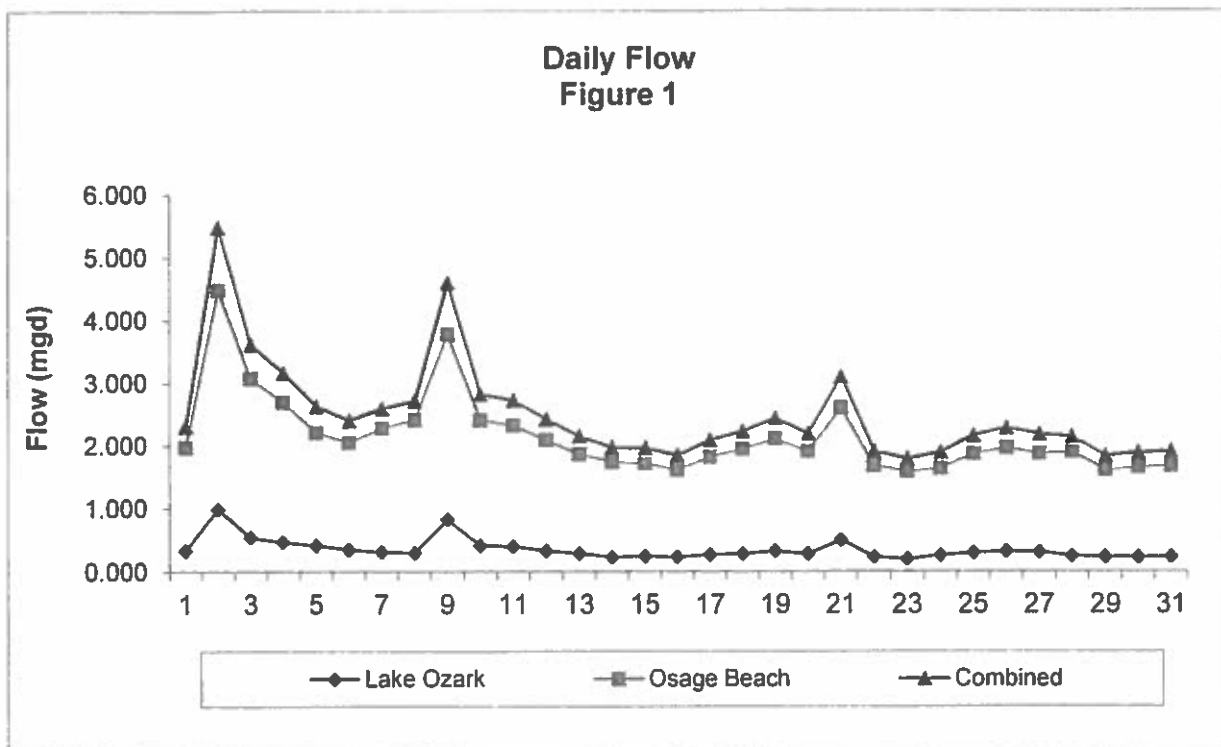
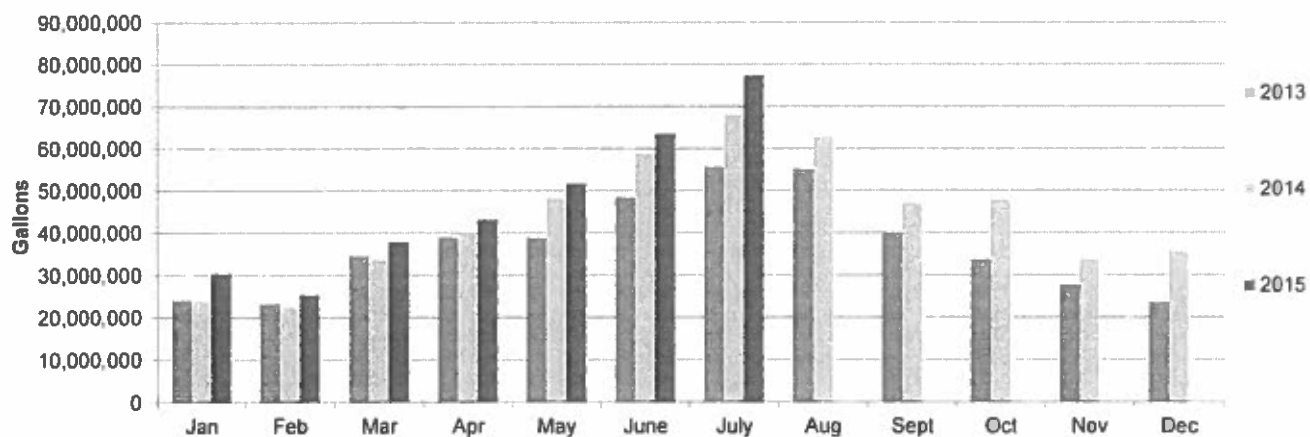


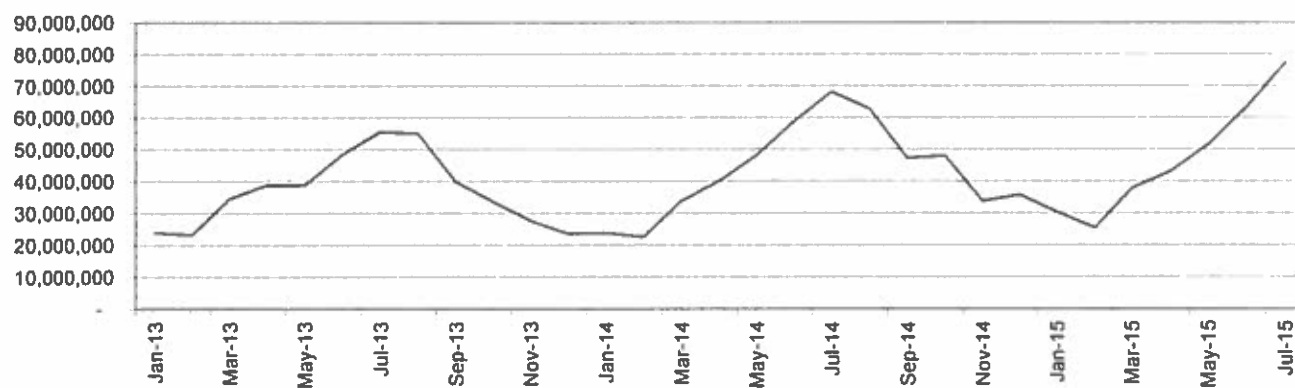
TABLE B
JOINT SEWER BOARD
Monthly Flows

<u>2013</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	2.8	19,923,000	83%	4,104,000	17%	24,027,000	100%
February	4.2	19,290,000	83%	3,979,000	17%	23,269,000	100%
March	5.3	28,232,000	82%	6,308,000	18%	34,540,000	100%
April	8.7	31,410,000	81%	7,507,000	19%	38,917,000	100%
May	2.9	32,247,000	83%	6,560,000	17%	38,807,000	100%
June	4.6	40,205,000	83%	8,185,000	17%	48,390,000	100%
July	2.2	46,803,000	84%	8,794,000	16%	55,597,000	100%
August	15.0	45,742,000	83%	9,351,000	17%	55,093,000	100%
September	2.3	33,128,000	83%	6,869,000	17%	39,997,000	100%
October	3.6	27,722,000	82%	5,996,000	18%	33,718,000	100%
November	2.5	22,915,000	83%	4,775,000	17%	27,690,000	100%
December	2.5	19,507,000	83%	4,038,000	17%	23,545,000	100%
	56.6	367,124,000	83%	76,466,000	17%	443,590,000	100%
<u>2014</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	3.0	19,229,000	81%	4,634,000	19%	23,863,000	100%
February	1.3	18,444,000	82%	4,114,000	18%	22,558,000	100%
March	1.2	28,731,000	85%	5,061,000	15%	33,792,000	100%
April	5.1	33,479,000	84%	6,515,000	16%	39,994,000	100%
May	4.7	41,054,000	85%	7,129,000	15%	48,183,000	100%
June	5.1	50,416,000	86%	8,342,000	14%	58,758,000	100%
July	3.1	59,089,000	87%	9,059,000	13%	68,148,000	100%
August	2.9	54,624,000	87%	8,228,000	13%	62,852,000	100%
September	3.4	40,316,000	86%	6,735,000	14%	47,051,000	100%
October	7.9	41,322,000	86%	6,659,000	14%	47,981,000	100%
November	1.6	29,315,000	87%	4,506,000	13%	33,821,000	100%
December	2.6	31,534,000	88%	4,204,000	12%	35,738,000	100%
	41.7	447,553,000	85%	75,186,000	15%	522,739,000	100%
<u>2015</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	0.9	26,319,000	87%	4,085,000	13%	30,404,000	100%
February	1.4	21,892,000	86%	3,465,000	14%	25,357,000	100%
March	4.5	32,996,000	87%	4,920,000	13%	37,916,000	100%
April	4.0	37,220,000	86%	5,945,000	14%	43,165,000	100%
May	7.2	44,456,000	86%	7,209,000	14%	51,665,000	100%
June	7.1	54,745,000	86%	8,769,000	14%	63,514,000	100%
July	9.7	66,474,000	86%	10,871,000	14%	77,345,000	100%
August							
September							
October							
November							
December							
	34.8	284,102,000	86%	45,264,000	14%	329,366,000	100%

Monthly Influent Flow
Figure 3A

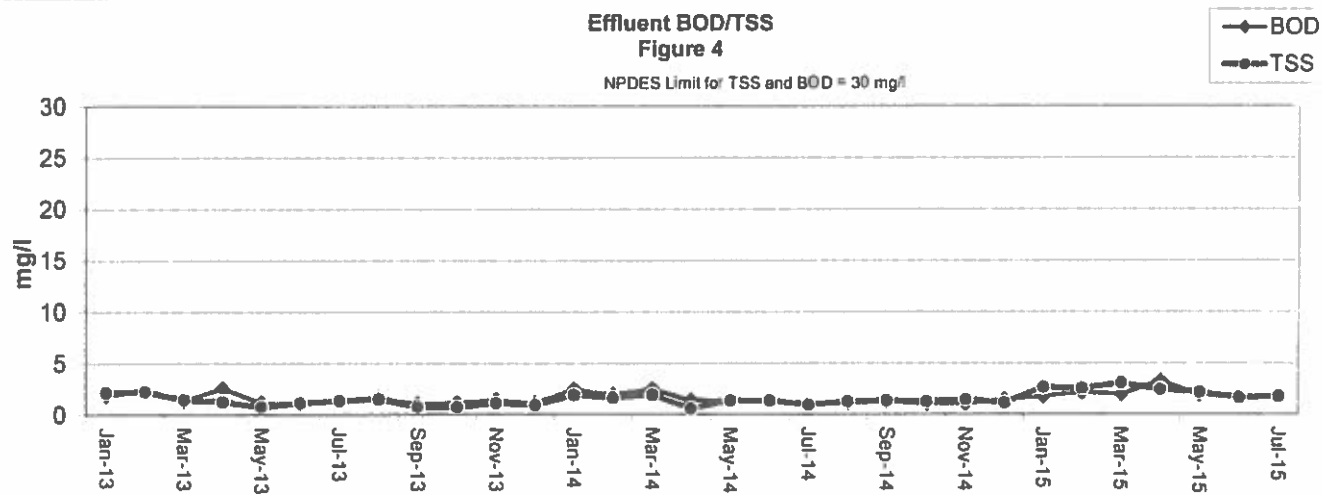


Monthly Influent Flow
Figure 3B

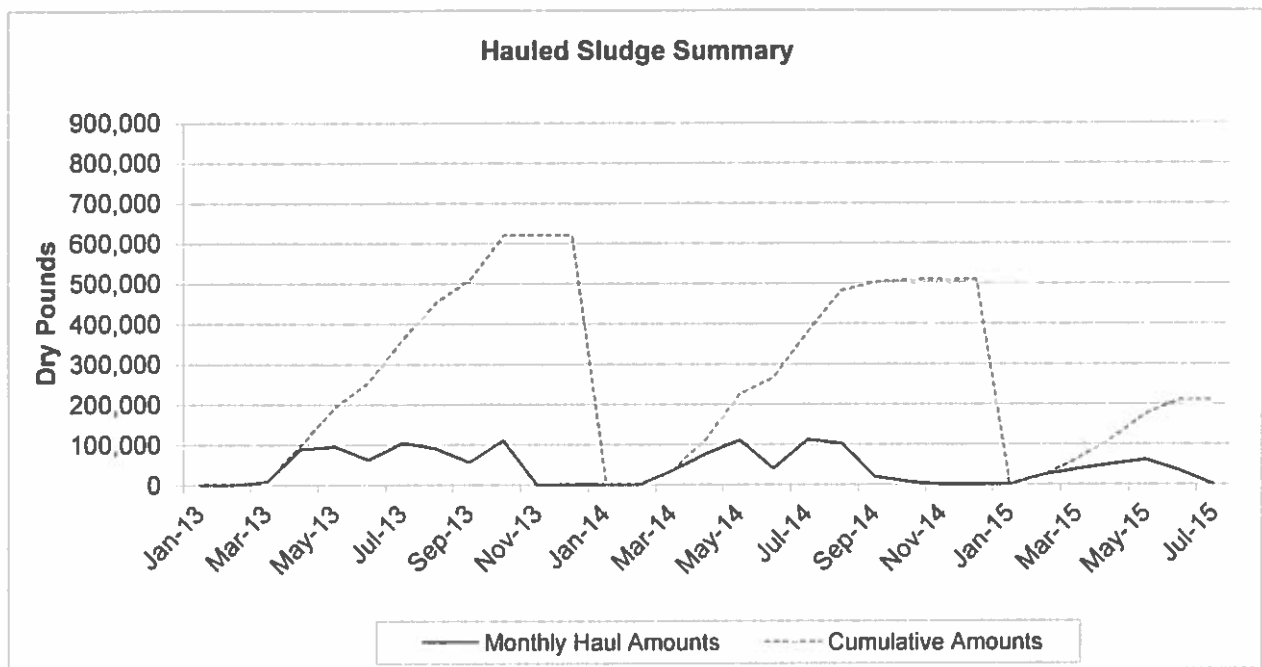
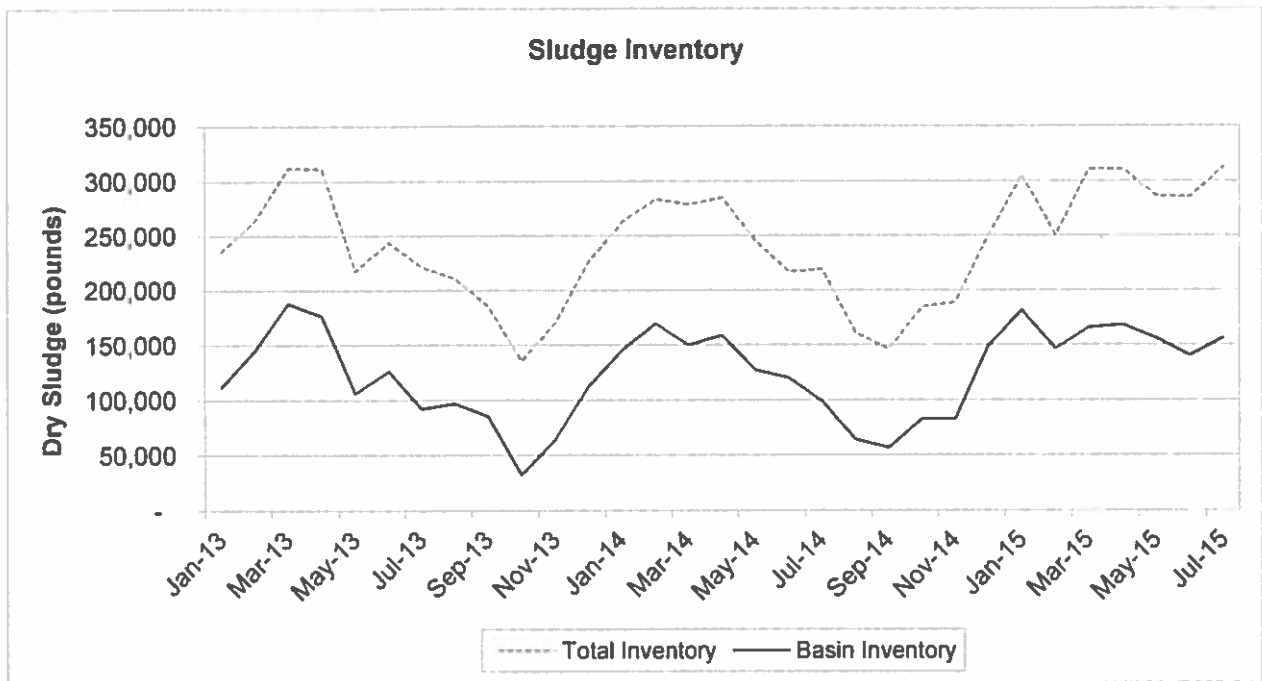


Effluent BOD/TSS
Figure 4

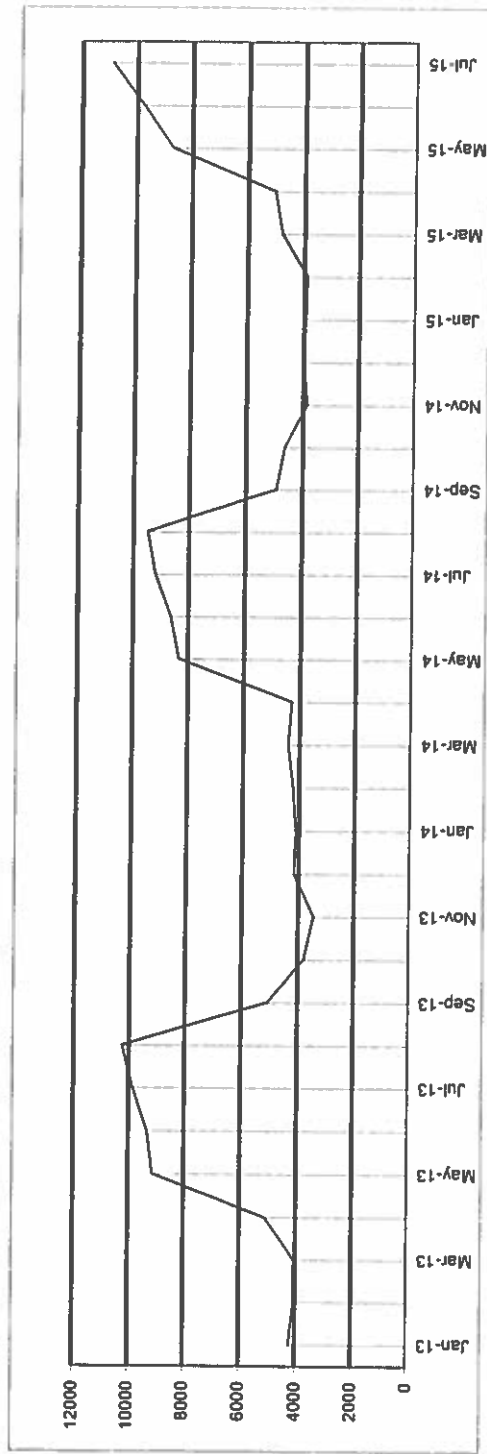
NPDES Limit for TSS and BOD = 30 mg/l



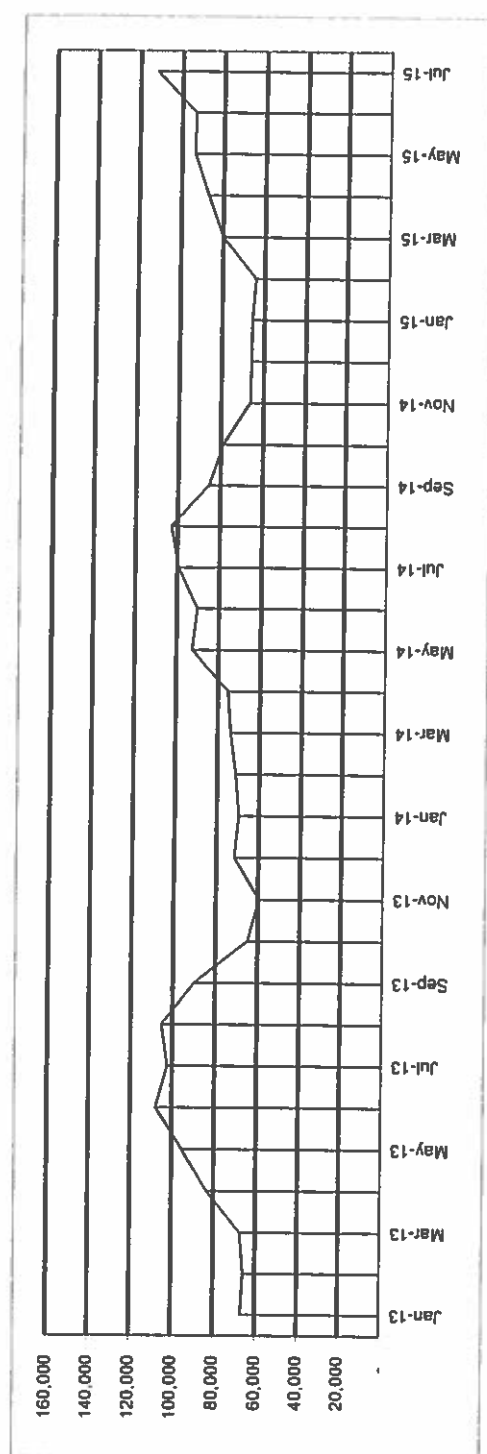
Date	Loads	Hauled Sludge			Annual Cumulative # Dry			Basin Depths			Blanket Depths			MLSS Inventory			Blanket and MLSS Inventory			Accepted Septage		
		Gallons	# Dry	% Solids				Tank #1	Tank #2	AB #1	Basin Gallons	# Dry	Clar #1	Clar #2	Clar #3	MLSS AB #1	MLSS AB #2	Gallons	# Dry	% Solids	MLSS	Total Dry
Jan-13	0	-	0	3.5%	-	-	6.0	2.5	0.0	392,500	111,652	1.5	2.0	0.0	4,010	4,010	3,692,167	124,155	0.00407	235,907	28	65,000
Feb-13	0	-	0	3.5%	-	-	6.0	5.0	0.0	495,000	144,491	1.0	2.0	1.0	4,000	4,000	3,696,714	119,314	0.00387	263,805	56	110,000
Mar-13	8	29,600	8,517	3.5%	8,517	-	6.0	6.5	0.0	632,500	187,748	2.0	2.0	2.0	4,030	4,050	3,714,476	123,915	0.004	311,663	21	52,500
Apr-13	74	273,800	89,488	3.9%	98,005	-	6.0	6.0	0.0	540,000	176,492	2.5	2.0	2.0	4,620	4,130	3,768,785	135,084	0.0043	311,576	34	60,000
May-13	82	303,400	95,228	3.8%	193,233	-	3.5	4.0	0.0	337,500	105,931	3.0	5.0	2.0	3,970	3,040	3,828,952	111,767	0.0035	217,698	36	85,500
Jun-13	54	199,800	62,210	3.7%	255,443	-	6.0	3.0	0.0	405,000	128,101	1.0	7.0	2.0	3,850	3,400	3,828,952	117,994	0.0037	244,095	47	117,500
Jul-13	97	358,900	105,164	3.5%	360,607	-	6.0	1.0	0.0	315,000	92,301	1.5	2.0	1.0	3,950	4,410	3,705,595	129,181	0.00418	221,482	58	137,500
Aug-13	74	273,800	90,969	4.0%	451,576	-	6.5	0.0	0.0	292,500	97,182	2.0	2.5	2.0	3,580	3,680	3,766,785	114,036	0.00363	211,218	57	142,500
Sep-13	48	177,600	56,069	3.8%	507,645	-	5.0	1.0	0.0	270,000	85,240	2.0	2.0	1.5	3,150	3,300	3,727,309	100,252	0.00323	185,492	39	97,500
Oct-13	83	307,100	110,472	4.3%	618,117	-	2.0	0.0	0.0	90,000	32,375	2.0	2.0	2.0	2,950	3,680	3,757,904	103,985	0.00332	136,271	32	60,000
Nov-13	0	-	0	4.3%	618,117	-	4.0	0.0	0.0	180,000	64,552	1.0	0.0	1.0	3,220	3,740	3,661,190	106,259	0.00374	170,811	15	37,500
Dec-13	0	-	0	4.3%	618,117	-	5.0	2.0	0.0	315,000	112,965	0.0	0.5	1.0	3,600	3,880	3,652,309	113,921	0.00374	226,887	19	47,500
Jan-14	0	-	0	4.3%	-	-	4.0	5.0	0.0	405,000	145,241	2.0	2.5	0.0	3,690	3,960	3,679,929	117,392	0.00383	262,633	22	54,500
Feb-14	0	-	0	4.3%	-	-	5.0	5.5	0.0	472,500	169,448	1.5	2.5	0.0	3,410	4,030	3,671,048	113,894	0.00372	283,341	6	15,000
Mar-14	29	107,300	35,703	4.0%	35,703	-	5.0	5.0	0.0	450,000	149,733	0.5	0.5	0.5	4,270	4,230	3,639,476	129,001	0.00425	278,734	35	90,500
Apr-14	65	240,500	77,176	3.8%	112,879	-	7.5	3.5	0.0	495,000	158,945	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	335,200	111,813	3.8%	224,492	-	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	3.2%	264,947	-	4.5	5.5	0.0	450,000	120,005	3.0	2.0	2.0	3,530	2,630	3,775,666	98,986	0.00308	216,591	26	81,000
Jul-14	117	432,900	112,292	3.1%	377,239	-	6.5	2.0	0.0	382,500	99,219	5.0	1.5	1.5	4,030	3,610	3,780,595	120,445	0.00382	219,664	44	111,500
Aug-14	107	395,900	102,873	3.1%	480,121	-	5.5	0.0	0.0	247,500	64,374	1.0	1.0	1.0	3,690	2,640	3,678,952	97,110	0.00317	161,484	55	129,000
Sep-14	17	62,900	19,811	3.8%	500,023	-	2.5	1.5	0.0	180,000	56,693	0.0	1.5	1.0	2,670	3,210	3,670,071	89,989	0.00284	146,682	37	92,500
Oct-14	5	18,500	6,789	4.4%	506,812	-	4.0	1.0	0.0	225,000	82,569	0.0	1.5	2.0	2,990	3,620	3,713,489	102,358	0.00331	184,927	33	79,500
Nov-14	0	-	0	4.4%	506,812	-	4.0	1.0	0.0	225,000	82,568	0.0	2.0	1.0	3,630	3,330	3,678,952	106,775	0.00348	189,341	20	50,000
Dec-14	0	-	0	4.4%	506,812	-	5.0	4.0	0.0	405,000	148,619	0.0	2.0	2.0	3,480	3,060	3,722,380	101,516	0.00327	250,135	18	40,000
Jan-15	0	-	0	4.4%	-	-	5.5	5.5	0.0	495,000	181,645	2.0	2.0	0.0	3,900	4,160	3,671,048	123,385	0.00403	305,030	22	55,000
Feb-15	20	74,000	24,069	3.9%	24,069	-	6.0	4.0	0.0	450,000	146,366	1.0	1.0	0.0	3,580	3,290	3,635,524	104,150	0.00344	250,516	21	52,500
Mar-15	34	125,800	38,603	3.7%	62,672	-	5.5	6.5	0.0	540,000	165,704	1.0	2.0	2.0	5,040	4,250	3,740,142	144,890	0.00465	310,595	11	27,500
Apr-15	44	162,800	50,607	3.7%	113,279	-	6.0	6.0	0.0	540,000	167,681	2.5	2.0	1.0	5,180	4,000	3,723,357	142,532	0.00459	310,393	23	57,500
May-15	55	203,500	61,284	3.6%	174,563	-	5.5	6.0	0.0	517,500	155,845	1.5	2.0	4.0	4,030	4,110	3,835,879	130,204	0.00407	286,049	26	65,000
Jun-15	35	129,500	35,024	3.2%	209,587	-	8.0	3.5	0.0	517,500	139,961	2.0	1.0	3.0	4,630	4,550	3,783,570	144,837	0.00459	284,798	37	92,500
Jul-15	0	-	0	3.2%	209,587	-	6.5	6.5	0.0	595,000	156,125	1.0	2.0	1.0	5,470	4,660	3,696,714	156,157	0.00507	312,282	42	104,000



Electric Cost



Kilowatts Used



Electric Cost Kilowatts Used

Jan-13	4240	66,990
Feb-13	4069	65,810
Mar-13	4056	67,500
Apr-13	5132	83,390
May-13	9135	95,360
Jun-13	9331	107,780
Jul-13	9861	102,490
Aug-13	10255	105,350
Sep-13	5108	89,830
Oct-13	3806	64,870
Nov-13	3459	59,610
Dec-13	4171	71,660
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



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

Discharge Monitoring Report For Municipal Wastewater Treatment Plants

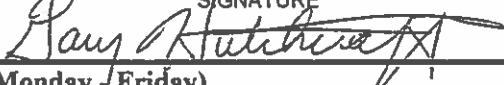
NAME OF FACILITY						LOCATION ADDRESS & CITY							COUNTY/REGION	
Lake of the Ozarks Regional WWTP #1						#3 Anderson Road							Miller/SWRO	
MONTH/YEAR		PERMIT NUMBER				OUTFALL NUMBER		TYPE TREATMENT FACILITY						
Jul-15		MO-0103241				#001		Oxidation Ditch/UV/Sludge Holding-sludge is land applied						
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	193	282	22.0	2.352	7.9	2.4	4.2	0.30	3.3		23.0	98.8	98.5
2	7.4			22.6	5.551	7.8				3.0		23.3		
3	7.3			22.4	3.589	7.8				3.4		23.1		
4	7.4			22.4	3.196	7.8				4.0		23.2		
5	7.3			23.0	2.673	7.8				3.8		23.7		
6	7.3			23.1	2.441	7.9				4.4	< 20	24.4		
7	7.3			22.6	2.699	7.9				4.4		24.2		
8	7.4			21.8	2.856	7.9				3.7		23.0		
9	7.4			21.3	4.848	7.9				4.5		22.4		
10	7.4	115	160	22.6	2.976	7.9	1.8	1.4	0.10	4.7		22.7	98.4	99.1
11	7.4			23.3	2.874	7.8				4.7		24.0		
12	7.5			23.5	2.546	8.0				5.1		24.5		
13	7.4			23.4	2.251	7.9				5.0	< 20	25.2		
14	7.7			23.9	1.993	8.0				4.9		25.8		
15	7.5			23.2	2.653	8.0				4.9		25.7		
16	7.4			23.4	1.633	8.0			0.10	5.0		25.0		
17	7.4	255	404	24.2	1.934	8.0	1.5	1.2		4.6		25.9	99.4	99.7
18	7.3			24.5	2.213	7.9				4.2		26.1		
19	7.4			24.2	2.510	8.0				5.0		25.9		
20	7.3			23.7	2.194	7.9				4.1		25.4		
21	7.3			24.5	3.076	7.9				4.7	< 20	25.7		
22	7.3			24.0	2.022	7.9				4.7		25.0		
23	7.4			23.4	2.095	7.9			0.03	5.0		24.8		
24	7.3	248	316	24.5	1.894	7.9	1.3	1.0		4.7		25.6	99.5	99.7
25	7.4			24.2	2.000	7.9				4.7		25.2		
26	7.5			25.0	2.405	7.9				4.4		25.9		
27	7.4			24.7	2.248	7.9				4.5	< 20	25.6		
28	7.3			25.2	2.051	8.0				4.3		27.1		
29	7.3			24.4	2.075	8.0				4.4		26.8		
30	7.3			24.1	2.026	8.0			0.05	4.7		26.0		
31	7.3	240	284	24.9	2.035	7.9	1.5	1.2		4.6		25.8	99.4	99.6
Total					79.909									
Avg		210	289	23.5	2.578		1.7	1.8	0.12	4.4	< 20	24.8	99.1	99.3
Min	7.3	115	160	21.3	1.633	7.8	1.3	1.0	0.03	3.0	< 20	22.4	98.4	98.5
Max	7.7	255	404	25.2	5.551	8.0	2.4	4.2	0.30	5.1	< 20	27.1	99.5	99.7

MONTHLY EFFLUENT MONITORING		QUARTERLY EFFLUENT MONITORING	
DATE	Oil & Grease mg/L	Selenium µg/L	Zinc µg/L
1			
2			
3			
4			
5			
6	< 5.0	< 0.010	0.014
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	< 0.010	0.014
Min	< 5.0	< 0.010	0.014
Max	< 5.0	< 0.010	0.014

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	*RAIN inches	Time
		* DO	** MLSS	*Settleability		* DO	** MLSS	*Settleability		* Ambient		
		mg/l	mg/l	*30 min ml	Temp ° C	mg/l	mg/l	*30 min ml	Temp ° C	Temp ° F		
1		1.0	3,770	510	22.8	0.8	5,230	640	22.9	70	2.3	7:30
2		0.7	4,870	620	23.2	0.9	3,760	450	23.1	70	1.6	7:30
3		1.0	4,760	680	23.1	1.0	3,960	550	23	70	0	7:30
4		1.4	3,360	450	23.1	1.4	4,130	550	23	66	0	7:30
5		1.1	5,200	600	23.5	1.2	2,670	300	23.4	71	0	7:30
6		1.1	4,050	440	24.5	0.8	6,180	840	24.2	74	0	7:30
7		0.7	5,450	800	24.1	1.0	4,840	640	24	73	0.75	7:30
8		0.7	5,590	780	22.4	0.9	4,200	610	22.5	66	1.1	7:30
9		1.0	4,770	600	22.2	1.0	4,620	600	22.2	64	1.5	7:30
10		1.4	5,280	580	23.1	1.7	4,820	580	22.9	70	0.75	7:30
11		1.2	4,680	520	24.4	1.1	4,700	620	23.8	74	0	7:30
12		1.4	3,840	420	24.4	1.2	4,460	550	24.4	73	0	7:30
13		1.5	3,130	320	25.1	1.4	3,780	440	24.9	76	0	7:30
14		1.2	5,180	640	25.8	1.9	3,600	360	25.6	79	0	7:30
15		0.8	6,810	850	25.6	1.7	3,090	320	25.3	75	0	7:30
16		2.3	5,170	680	25	3.4	3,900	430	24.9	74	0	7:30
17		1.2	4,740	500	26	1.5	4,410	510	25.6	78	0	7:30
18		1.1	6,220	760	26	1.5	3,090	390	25.7	79	0	7:30
19		1.8	4,410	510	25.7	2.1	3,600	430	25.7	77	0	7:30
20		0.8	5,330	750	25.2	0.8	3,180	450	25.1	73	1.7	7:30
21		1.0	5,600	790	25.7	2.3	3,610	390	25.5	73	0	7:30
22		1.0	5,240	670	24.4	1.0	4,740	620	24.6	74	0	7:30
23		1.8	5,720	660	24.4	2.9	3,690	470	24.5	73	0	7:30
24		0.9	5,810	730	25.6	1.1	4,630	540	25.4	74	0	7:30
25		1.1	5,330	740	25.1	1.0	4,880	680	25	74	0	7:30
26		1.0	5,210	740	26.1	1.3	3,980	500	25.9	79	0	7:30
27		1.0	5,960	770	25.9	1.5	3,680	370	25.7	76	0	7:30
28		0.9	6,200	760	27.4	0.9	4,020	570	26.8	78	0	7:30
29		1.0	5,500	730	26.6	1.2	4,490	620	26.4	77	0	7:30
30		1.0	5,320	650	25.5	1.0	5,670	750	25.3	68	0	7:30
31		0.8	5,470	680	25.6	1.3	4,660	600	25.6	71	0	7:30

COMMENTS:

TESTS PERFORMED BY (PRINT) John Hornback	SIGNATURE 	PHONE # (573)365-0455	DATE 8/6/2015
REPORT APPROVED BY (PRINT) Gary Hutchcraft	SIGNATURE 	PHONE # (573)365-0455	DATE 8/6/2015

*Required Daily (Monday - Friday)

**Required 1/week

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

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

PERMITTEE NAME/ADDRESS

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

MO0103241			001 A			
PERMIT NUMBER			DISCHARGE NUMBER			
MONITORING PERIOD						
YEAR	MO	DAY	YEAR	MO	DAY	
2015	07	01	TO	2015	07	31

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM

Parameter		MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
BOD, 5-day, 20 deg. C (00310)	REPORTED	*****		2.4	1.7	*****	Weekly	24 Hour Composite
Stage Type: End of Pipe	REQUIREMENT	*****		Weekly Average: 45	Monthly Average: 30	*****	Weekly	24 Hour Composite
E. coli, colony forming units (CFU) (51041)	REPORTED	*****		*****	<20	<20	Weekly	Grab
Stage Type: End of Pipe	REQUIREMENT	*****		*****	Weekly Average: 630	Monthly Average: 126	Weekly	Grab
Flow, in conduit or thru treatment plant (50050)	REPORTED	5.551	2.578	*****	*****	*****	Daily	Record
Stage Type: End of Pipe	REQUIREMENT	Daily Maximum: Monitoring Required	Monthly Average: Monitoring Required	*****	*****	*****	Daily	Record
Nitrogen, ammonia total (as N) (00610)	REPORTED	*****		0.30	0.12	*****	Weekly	Grab
Stage Type: End of Pipe	REQUIREMENT	*****		Daily Maximum: 5.6	Monthly Average: 1.2	*****	Weekly	Grab
Oil and grease (soxhlet extr.) (00550)	REPORTED	*****		<5.0	<5.0	*****	Monthly	Grab
Stage Type: End of Pipe	REQUIREMENT	*****		Daily Maximum: 15	Monthly Average: 10	*****	Monthly	Grab
pH (00400)	REPORTED	*****		7.8	8.0	*****	Weekly	Grab
Stage Type: End of Pipe	REQUIREMENT	*****		Minimum: 6	Maximum: 9	*****	Weekly	Grab
Temperature, water deg. centigrade (00010)	REPORTED	*****		27.1	24.8	*****	Weekly	Grab
Stage Type: End of Pipe	REQUIREMENT	*****		Daily Maximum: Monitoring Required	Monthly Average: Monitoring Required	*****	Weekly	Grab

GENERAL PERMIT REQUIREMENTS OR COMMENTS
OUTFALL-SPECIFIC COMMENTS
PARAMETER-SPECIFIC COMMENTS

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

OPERATOR IN RESPONSIBLE CHARGE		7305
TYPED OR PRINTED NAME Gary F Hutchcraft		CERTIFICATE NUMBER
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE
Gary F Hutchcraft		573-365-0455
TYPED OR PRINTED NAME		2015-08-06 10:06:06
SIGNATURE		Date

Page 1

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

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

PERMITTEE NAME/ADDRESS

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

MO0103241			001 A			
PERMIT NUMBER			DISCHARGE NUMBER			
MONITORING PERIOD						
YEAR	MO	DAY	YEAR	MO	DAY	
2015	07	01	TO	2015	07	31

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM

Parameter		MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Total Suspended Solids (TSS) (00530)	REPORTED	*****		4.2	1.8	*****	Weekly	24 Hour Composite
Stage Type: End of Pipe	REQUIREMENT	*****		Weekly Average: 45	Monthly Average: 30	*****	Weekly	24 Hour Composite

GENERAL PERMIT REQUIREMENTS OR COMMENTS
OUTFALL-SPECIFIC COMMENTS
PARAMETER-SPECIFIC COMMENTS

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

OPERATOR IN RESPONSIBLE CHARGE		7305
TYPED OR PRINTED NAME Gary F Hutchcraft		CERTIFICATE NUMBER
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE
Gary F Hutchcraft		573-365-0455
TYPED OR PRINTED NAME		2015-08-06 10:06:06
SIGNATURE		Date

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
4178914300
4178914399 (fax)

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

MO0103241	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

YEAR			MO			DAY		
FROM	2015	07	01	TO	2015	09	30	

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM

Parameter		MASS	Unit	CONCENTRATION	Unit	FREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB CODE
Selenium (Se), total recoverable (00981)	REPORTED	*****		<0.010	<0.010	*****	Quarterly	Grab
Stage Type: End of Pipe	REQRMNT	*****		Daily Maximum: 8.1	Monthly Average: 4	*****	Quarterly	Grab
Zinc (Zn), total recoverable (01094)	REPORTED	*****		0.014	0.014	*****	Quarterly	Grab
Stage Type: End of Pipe	REQRMNT	*****		Daily Maximum: Monitoring Required	Monthly Average: Monitoring Required	*****	Quarterly	Grab

GENERAL PERMIT REQUIREMENTS OR COMMENTS
OUTFALL-SPECIFIC COMMENTS
PARAMETER-SPECIFIC COMMENTS

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

OPERATOR IN RESPONSIBLE CHARGE			
Gary Hutchcraft		7305	
TYPED OR PRINTED NAME		CERTIFICATE NUMBER	
PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	
Gary F Hutchcraft		573-363-0453	
TYPED OR PRINTED NAME		2015-09-06 10:10:26	
SIGNATURE		Date	

Page 1

DATE JULY 2015

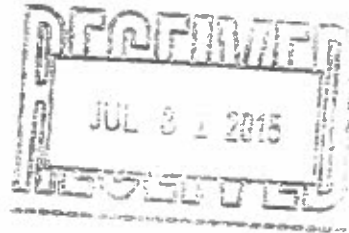
Approved by _____ Date _____

RECEIVED

Prepared by CHL, FHL, JLI



Gary Hutchcraft
Lake of the Ozarks Regional WWTP #1
PO Box 1985
Lake Ozark, MO 65049-1985
USA



DMR-QA 35 **Final Report**

DMR-QA Proficiency Testing

NPDES Permit: MO0103241

DMR-QA Study

Open Date: 03/20/15

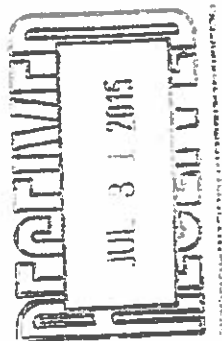
Close Date: 07/10/15

Report Issued Date: 07/31/15

Study #: DMR-QA 35

CWA - Non-Potable Water
FINAL Performance Evaluation Report
NSI Laboratory Proficiency Testing Program
Study DMRQA-35 - Shipped: 03/20/2015 - Closed: 07/10/2015 - Reports Printed On: 07/20/2015
Participant USEPA Labcode: MO01096

Study Designed and Coordinated by:
NSI Lab Solutions
7212 ACC Blvd., Raleigh, NC 27617
ACCLASS Certificate#: AP-1693
1-800-234-7837



IN HOUSE RESULTS

This evaluation report is being submitted to:
Lake of the Ozarks Regional WWTP #1
Attention: Gary Hutchcraft
PO Box 1985
Lake Ozark, MO, 65049

LabCode and Accreditation Information:

Send Results to: EPA Only
EPA Lab Code: MO01096
State Lab Code:
Primary Agency: EPA Region VII -- EPA Region VII/ENV/SVRLAB
Robert Bryant
11201 Renner Blvd
Lenexa, KS 66219
Reports to : EPA Region VII

Participant Information

NSI Lab Code: N05248
Permittee Code: MO0103241

This report was submitted by Gary Hutchcraft, Local Manager.

Lake of the Ozarks Regional WWTP #1
PO Box 1985
Lake Ozark, MO, 65049
573-365-0455

This PT report may contain data not covered under ACLASS Accreditation. Such data is noted by an asterisk.

MIC-003 Total and Fecal Coliform - Lake of the Ozarks Regional WWTP #1 - NSI Lab Solutions/DMRQA-35

NELAC Analyte #	Analyte	NELAC Method Code	Method Description	Reported Value	Study Value Mean*	Assigned Value	Units	EPA Code ¹	Acceptance Limits	Evaluation	Analysis Date	Analyst's Name
2525	E.coli, MF	n/a	SM9222B 21st Ed.	686	493	493	cfu/100mL	MO01096	69.0 to 3500	ACCEPT.	6/17/15	Gary Hutchcraft
2500	Total Coliform, MF	--	Not Reported --									
2500	Total Coliform, MPN	--	Not Reported --									
2530	Fecal Coliform, MF	--	Not Reported --									
2530	Fecal Coliform, MPN	--	Not Reported --									
2525	E.coli, MPN	--	Not Reported --									

PEI-026 Demand - Lake of the Ozarks Regional WWTP #1 - NSI Lab Solutions/DMRQA-35

NELAC Analyte #	Analyte	NELAC Method Code	Method Description	Reported Value	Study Value Mean*	Assigned Value	Units	Study Standard Deviation*	EPA Code ¹	Acceptance Limits	Evaluation	Analysis Date	Analyst's Name
1530	BOD	n/a	SM5210B 21st Ed.	80.0	90.2	89.8	mg/L	13.8	MO01096	48.0 to 132	ACCEPT.	6/17/15	John Hornback
1565	COD	--	Not Reported --										
2040	TOC	--	Not Reported --										
1555	CBOD	--	Not Reported --										

PEI-035 pH - Lake of the Ozarks Regional WWTP #1 - NSI Lab Solutions/DMRQA-35

NELAC Analyte #	Analyte	NELAC Method Code	Method Description	Reported Value	Study Value Mean*	Assigned Value	Units	Study Standard Deviation*	EPA Code ¹	Acceptance Limits	Evaluation	Analysis Date	Analyst's Name
1900	pH	n/a	SM4500HB+B 21st Ed.	6.76	6.75	6.70	units	0.437	MO01096	6.50 to 6.90	ACCEPT.	6/17/15	John Hornback

PEI-079 Residue - Lake of the Ozarks Regional WWTP #1 - NSI Lab Solutions/DMRQA-35

NELAC Analyte #	NELAC Analyte	NELAC Method Code	Method Description	Reported Value Mean*	Assigned Value Units	Study Standard Deviation*	EPA Code ¹	Acceptance Limits	Evaluation	Analysis Date	Analyst's Name	
1960	Non-Filterable Residue (TSS)	n/a	SM2540D 21st Ed.	38.4	39.1	41.8 mg/L	4.53	MO01096	31.5 to 48.5	ACCEPT.	6/17/15	John Hornback
1950	Total Solids	-- Not Reported --										

PEI-138 Simple Nutrients - Lake of the Ozarks Regional WWTP #1 - NSI Lab Solutions/DMRQA-35

NELAC Analyte # Analyte	NELAC Method Code	Method Description	Reported Value Mean*	Assigned Value Units	Study Standard Deviation*	EPA Code ¹	Acceptance Limits	Evaluation	Analysis Date	Analyst's Name	
1515 Ammonia as N	n/a	SM4500NH3D 21st Ed.	16.1	17.6	17.9 mg/L	3.03	MO01096	14.4 to 21.2	ACCEPT.	6/17/15	John Hornback
1810 Nitrate as N	-- Not Reported --										
1870 Orthophosphate as P	-- Not Reported --										
1820 Nitrate-nitrite as N	-- Not Reported --										

Assigned Values

All assigned values are established in a manner compliant with the current NELAC FOT for Non-Potable Water. With the exception of TDS and Specific Conductance assigned values are equal to the analytically verified gravimetric true value of the PT sample. For TDS and Specific Conductance, the assigned value is set at the robust study mean.

Accuracy/Traceability/Uncertainty

All assigned values are analytically verified for formulation accuracy prior to shipment. A total of 10 randomly chosen samples are taken from the production run and analyzed against NIST SRMs or CRMs. Traceability to SI is established through microbalance calibration with NIST traceable test masses. The expanded uncertainty at 95% CI with K=2 of each assigned value is available upon request and is typically <0.50%.

Batch Homogeneity

Each individual PT sample batch is thoroughly mixed in production and guaranteed to be homogeneous. Homogeneity is verified analytically according to in-house SOP.

Stability

Each analyte has been verified stable through the end of the PT study by either long term monitoring or study closing stability testing.

Acceptance Limits

Acceptance limits are set according to current NELAC limits. Where no limits are set by NELAC, limits are set to ± 3 standard deviations around the study mean after outlier correction.

Accredited Analytes

All analytes are included under our ISO 17043/TNI scope of accreditation (Certificate #: AP-1693) unless otherwise noted with an asterisk (*).

PT Study Summary

To view a summary of the PT study results, please see Study Summary Report available in our PT Datalink at www.nsilabsolutions.com.

* The study mean and standard deviation are presented after outlier correction and are based upon pooled reported results without consideration for analytical technology.

1 If present, the EPA Code of the lab that actually performed the analysis for this analyte.

Reviewed/Approved By: Mark Hammersla Date: 7/23/15
Mark Hammersla, President

This PT report shall only be reproduced in full. This report shall not be used to claim approval, certification or endorsement by NSI Lab Solutions. This report has been released only to entities requested by the participant. This report is held in confidence by NSI Lab Solutions with additional reports available by written request of participant.

Should you disagree with any element of this PT report, please submit your complaint to nsi@nsilabsolutions.com. Include the study number, your contact information, NSI Labcode, and the nature of your disagreement. An NSI Lab Solutions representative will contact you within 48 hours.



A Waters Company

DMR-QA 35 Final Report

NPDES Permit #: MO0103241

Permit Holder: Gary Hutchcraft

Local Manager

Lake of the Ozarks Regional WWTP #1

#3 Anderson Road

Lake Ozark, MO 65049-1985

573-365-0455

ERA Customer Number: L130627

Report Issued: 07/31/15

Study Dates: 03/20/15 - 07/10/15

TNI Analyte Code	Analyte	Units	Performance Evaluation	Reported Value	Assigned Value	Acceptance Limits	Method Description	Study Mean	Study Standard Deviation	USEPA Lab Code	Study
DMRQA Oil & Grease Concentrate (cat# 4120)											
1880	n-Hexane Extractable Material(O&G)(Grav)	mg/L	Acceptable	84.0	85.8	59.7 - 100	EPA 1664A 1999	80.5	7.94	MO00066	DMRQA85
DMRQA Trace Metals (cat# 586)											
1140	Selenium	µg/L	Acceptable	212	211	179 - 243	EPA 200.7.4.4 1994	210	11.2	MO00066	DMRQA35
DMRQA Trace Metals (cat# 586)											
1190	Zinc	µg/L	Acceptable	1780	1710	1450 - 1970	SM3111B online	1710	71.6	MO00065	DMRQA85



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

16341 Table Mountain Pkwy • Golden, CO 80403 • 800.372.0122 • 303.431.8454 • fax 303.421.0159 • www.eraqc.com



Study #: DMR-QA 35

Page 2 of 4



DMR-QA 35 Final Report

A Waters Company

NPDES Permit #: MO0103241
Permit Holder: Gary Hutchcraft
Local Manager
Lake of the Ozarks Regional WWTP #1
#3 Anderson Road
Lake Ozark, MO 65049-1985
573-365-0455

ERA Customer Number: L130627
Report Issued: 07/31/15
Study Dates: 03/20/15 - 07/10/15

Analyte Code	Test End Point	Performance Evaluation	Reported Value %	Assigned Value %	Acceptance Limits %	Method Description	Study Mean	Study Standard Deviation	USEPA Lab Code	Study
<i>DMRWet Fathead minnow (Test Code 13) (cat# WET002)</i> <i>48Hr., Acute, Non-Renewal, 25° C, MHSF</i> <i>Potassium chloride</i>										
0754	LC50	Acceptable	37.9	40.7	17.8 - 63.6	EPA 2000	40.7	11.6	MO00065	DMRWet36
<i>DMRWet Ceriodaphnia dubia (Test Code 19) (cat# WET008)</i> <i>48Hr., Acute Renewal, 25° C, MHSF</i> <i>Potassium chloride</i>										
0784	LC50	Acceptable	43.5	54.9	26.5 - 83.3	EPA 2002	54.9	14.2	MO00065	DMRWet35



All analytes are included in ERA's A2LA accreditation. Lab Code: 1539-01

16341 Table Mountain Pkwy • Golden, CO 80403 • 800.372.0122 • 303.431.8454 • fax 303.421.0159 • www.eraqc.com

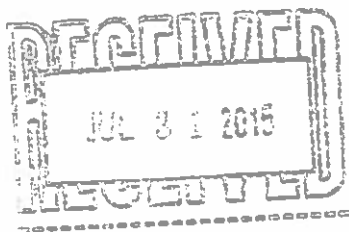
Study #: DMR-QA 35

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Environmental Analysis South, Inc.

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



REPORT OF ACUTE TOXICITY TESTING

Alliance-Lake of the Ozarks

Outfall 001, 24 hr composite, AEC=100%

MO-0103241

EAS LOG# 1901219

July 22, 2015 through July 24, 2015

Tests performed by:

John P. Clippard / Chemical Analyst at Environmental Analysis South (EAS)
Kelly J. Ray / Biologist at Environmental Analysis South (EAS)
Sara C. Shields / Lab Supervisor - Chemist at Environmental Analysis South (EAS)
David F. Warren / Lab Director - Chemist at Environmental Analysis South (EAS)

1. Report Summation
 - 1.1. Data Summation
 - 1.2. Conclusion
2. Method Summation
 - 2.1. Test Conditions and Methods
 - 2.2. Potassium chloride Reference Salt Test
 - 2.2.1. *Pimephales promelas* data
 - 2.2.2. *Ceriodaphnia dubia* data
 - 2.3. Literature Cited
3. Raw Data Bench Sheets
 - 3.1. Initial observations (page 1)
 - 3.2. Zero hour Observations (page 1)
 - 3.3. Twenty-four (24) hour Observations (page 1)
 - 3.4. Forty-eight (48) hour Observations (page 1)
 - 3.5. Survival Data Table (page 2)
 - 3.6. Test Comments (page 3)
4. Chain of Custody
5. MO DNR "Whole Effluent Toxicity (WET) Test Report (Form 780-1899)

Environmental Analysis South, Inc.

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



REPORT OF ACUTE TOXICITY TESTING

Alliance-Lake of the Ozarks

Outfall 001, 24 hr composite, AEC=100%

MO-0103241

EAS LOG# 1901219

July 22, 2015 through July 24, 2015

1. REPORT SUMMATION:

1.1. Multiple Dilution Data Summation

Test Solution	<i>Pimephales promelas</i> Acute Toxicity Test 48 Hour Survival	<i>Ceriodaphnia dubia</i> Acute Toxicity Test 48 Hour Survival
Reconstituted Control (RC)	100%	100%
Upstream Control (UC)	100%	100%
6.25% Effluent	100%	100%
12.5% Effluent	95%	100%
25% Effluent	100%	100%
50% Effluent	100%	100%
100% Effluent	100%	100%
Estimated 48 Hour LC ₅₀ Value	>100% Effluent	>100% Effluent
To Pass: 1. Effluent - LC50 must be >100% and 2. All concentrations = or < AEC must not have significant difference to control in survival.	1. Yes 2. Yes	1. Yes 2. Yes
Result of Toxicity Test	PASS	PASS

* Indicates a significant difference at alpha = 0.5 between effluent and control survival data.

Conclusion:

Pimephales promelas 48 hour WET results:

LC 50 > 100% by Trimmed Spearman-Kärber
NOAEC = 100% using Steel's Many-One Rank Test

Ceriodaphnia dubia 48 hour WET results:

LC 50 > 100% by the Graphical Method
NOAEC = 100% using Steel's Many-One Rank Test

Based on these results, the outfall passed the whole effluent toxicity test with both species.

Approved by _____

Sara C. Shields, Chemist

Environmental Analysis South, Inc.

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



REPORT OF ACUTE TOXICITY TESTING

Alliance-Lake of the Ozarks

Outfall 001, 24 hr composite, AEC=100%

MO-0103241

EAS LOG# 1901219

July 22, 2015 through July 24, 2015

2. TEST METHOD SUMMARY

2.1. TEST CONDITIONS AND METHODS:

	<i>Ceriodaphnia dubia</i> :	<i>Pimephales promelas</i> :
Test duration:	48 hours	48 hours
Temperature:	24 - 26 degree Celsius	24 - 26 degree Celsius
Light quality:	Ambient laboratory illumination	Ambient laboratory illumination
Photoperiod:	16 hour light, 8 hours dark	16 hour light, 8 hours dark
Control Water:	Moderately Hard Reconstituted Water	Moderately Hard Reconstituted Water
Dilution Water:	Upstream Water - If unavailable or toxic, then control water will be used.	Upstream Water - If unavailable or toxic, then control water will be used.
Size of test vessel:	30 milliliters	250 milliliters
Volume of test solution:	15 milliliters	200 milliliters
Age of test organisms:	<24 hours	1 -14 days (all same age)
Number of organisms/test vessel:	5	10
Number of replicates/concentration:	4	2
Number of organisms/concentration:	20	40 for a single dilution test and 20 for a multiple dilution test
Feeding regime:	None (fed prior to test)	None (fed prior to test)
Aeration:	None	None
Test acceptability criterion:	90% or greater survival in controls	90% or greater survival in controls

The methodology used for the chemistry data was taken from the *Standard Methods for the Examination of Water and Wastewater*, 18th edition (1992). The exception was hardness, which was determined using a Hach EDTA titration test kit. The toxicity tests follow guidelines laid out in the permittee's NPDES permit and were conducted according to EPA approved methods (USEPA 2002).

All test organisms were cultured according to EPA approved methods (USEPA 2002). The *Ceriodaphnia dubia* and the *Pimephales promelas* were obtained from C-K Associates Inc. located in Baton Rouge, Louisiana and shipped overnight for use in the whole effluent toxicity test.

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2.2. REFERENCE TOXICITY TEST:

Environmental Analysis South performs monthly reference toxicity tests. The most recent reference test was initiated on July 8, 2015 using KCL Lot #41713. Following are the results:

2.2.1. *P. promelas* - 48 hr. Acute Test – $LC_{50} = 1.058$ g/l 95%CI (0.679-1.436g/l)

EAS %CV = 17.9%

National Warning Limits (75th percentile) = 19%CV

National Control Limits (90th percentile) = 33%CV

2.2.2. *C. dubia* - 48 hr. Acute Test – $LC_{50} = 0.481$ g/l 95%CI (0.303-0.658g/l)

EAS %CV = 18.5%

National Warning Limits (75th percentile) = 29%CV

National Control Limits (90th percentile) = 34%CV

2.3. LITERATURE CITED:

1. APHA. 1992. *Standard methods for the examination of water and wastewater*, 18th Ed. American Public Health Association, Washington, D.C
2. USEPA. 2002. *Methods for measuring the acute toxicity of effluents and receiving waters to freshwater and marine organisms*, 5th Ed. EPA-821-R-02-012
3. USEPA 2000. *Understanding and Accounting for Method Variability in Whole Effluent Toxicity Applications under the National Pollutant Discharge Elimination System, (Table B-2)*. June 2000. EPA 833-R-00-003.

NPDES NUMBER: MO-0103241

TYPE OF METHOD: multiple dilution

DATE OF COLLECTION: 07/20/15 0830 hrs - 07/21/15 0830 hrs by Gary

DATE & TIME OF SUBMISSION:	07/22/15 1025 hrs by UPS
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DATE & TIME OF SUBMISSION: 07/22/15 10:25 hrs by UPS

Upstream: Bowling Hollow Creek

Collected: 07/21/15 0840 hrs by Gary Hutchcraft

[illegible][illegible]

[Signature]

Date: 7/24/11

WHOLE EFFLUENT TEST conducted in accordance with US EPA 600/4-90/027
Fifth Edition October 2002

Lake of the Ozark Regional WWTP #1, Outfall 001, 24 hr composite EAS LOG# 1901219

Date Test Began: July 22, 2015 Time Test Began: 1100 hrs
 Date Test Finished: July 24, 2015 Time Test Finished: 1100 hrs

Analyst 1: DFW
 Analyst 2: KJR
 Analyst 3: SCS

P. promelas (PP) AGE: 5 days HATCH NUMBER: 9520 c-k

PERIOD	RC	UC	100%	50%	25%	12.5%	6.25%
0 HR-PP	ALIVE	ALIVE	ALIVE	ALIVE	ALIVE	ALIVE	ALIVE
24 HR-PP	10,10	10,10	10,10	10,10	10,10	10,10	10,10
48 HR-PP	10,10	10,10	10,10	10,10	10,10	9,10	10,10

Ceriodaphnia dubia (CD) AGE: <24 hours HATCH NUMBER: 3069 c-k

PERIOD	RC	UC	100%	50%	25%	12.5%	6.25%
0 HR-CD	ALIVE	ALIVE	ALIVE	ALIVE	ALIVE	ALIVE	ALIVE
24 HR-CD	5,5,5,5	5,5,5,5	5,5,5,5	5,5,5,5	5,5,5,5	5,5,5,5	5,5,5,5
48 HR-CD	5,5,5,5	5,5,5,5	5,5,5,5	5,5,5,5	5,5,5,5	5,5,5,5	5,5,5,5

[Signature]

Approved by:

Date: 7/27/15

Multiple
100%

ENVIRONMENTAL ANALYSIS SOUTH, INC.

4000 East Jackson Blvd

Jackson, MO 63755

Phone: (573) 204-8817 Fax: (573) 204-8818



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WHOLE EFFLUENT TOXICITY TESTING CHAIN OF CUSTODY

CLIENT: Alconice Lake Ogish

NPDES PERMIT NUMBER: MO-0103241

EFFLUENT NAME: 001 GRAB ☐ 24 HR COMPOSITE ☒
(LEGAL NAME)

COLLECTION DATA: START DATE: 7/20/15 START TIME: 8:30AM

FINISH DATE: 7/21/15 FINISH TIME: 8:30AM

UPSTREAM NAME: BOWLING HOLLOW CREEK (GRAB SAMPLE)
(LEGAL NAME)

COLLECTION DATA: DATE: 7/21/15 TIME: 8:40AM

SAMPLER NAME: GARY HUTCHCRAFT CARRIER: UPS
(PRINT NAME)

Disclaimer: Environmental Analysis South, Inc. shall not be held financially liable for invalid whole effluent toxicity test (WET) or shipping charges resulting from the following reasons:

- Sampling & holding time errors (Will results in a setup charge of \$100 to the client)
- Commercial carrier delivery problems or errors (Will results in a setup charge of \$100 to the client)
- Problems with health or delivery of test organisms by vendor (No setup charge to client)

SAMPLER CHECK LIST

NO HEADSPACE IN BOTTLES ☐

SHIP SAMPLES BY NEXT DAY CARRIER OR DELIVER TO LAB ON 7/22/15 ☒

SAMPLES TO BE HAND DELIVERED TO LABORATORY SAME DAY AS TEST SETUP ☐

SUFFICIENT ICE TO COOL SAMPLES TO A RANGE OF 0 - 6°C WHEN SHIPPING OVERNIGHT ☐

RELINQUISHED BY: Gary Hutchcraft DATE: 7/21/15 TIME: 10:25

LABORATORY USE ONLY

EFFLUENT LOG NUMBER: 190121 9

RECEIVED TEMPERATURE: 6 °C THERMOMETER ASSIGNED NUMBER: _____

HEADSPACE: YES or NO

SAMPLES ICED or DELIVERED SAME DAY AS TEST

UPSTREAM LOG NUMBER: 190121 9 A

RECEIVED TEMPERATURE: 6 °C THERMOMETER ASSIGNED NUMBER: _____

HEADSPACE: YES or NO

SAMPLES ICED or DELIVERED SAME DAY AS TEST

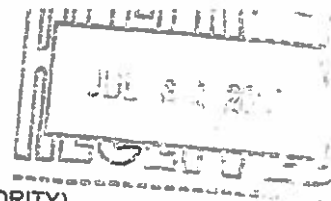
RECEIVED BY: Ann Wilson DATE: 7/22/15 TIME: 10:25
UPS



MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM - P.O. BOX 176, JEFFERSON CITY MO, 65102

WHOLE EFFLUENT TOXICITY (WET) TEST REPORT

(TO BE ATTACHED TO WET TESTS FOR SUBMISSION TO THE REGULATORY AUTHORITY)



PART A - TO BE COMPLETED IN FULL BY PERMITTEE

FACILITY NAME Lake of the Ozark Regional WWTP #1		DATE & TIME COLLECTED EFFLUENT 07/20/15 0830-07/21/15 0830	UPSTREAM 07/21/15 0840
PERMIT NUMBER MO-0103241		PERMIT OUTFALL NUMBER Outfall # 001	
COLLECTOR'S NAME Gary Hutchcraft			
RECEIVING STREAM COLLECTION SITE AND DESCRIPTION Bowling Hollow Creek			
PERMIT ALLOWABLE EFFLUENT CONCENTRATION (AEC) 100%		EFFLUENT SAMPLE TYPE (CHECK ONE) ☒ 24HR COMPOSITE ☐ GRAB ☐ OTHER	
SAMPLE NUMBER EFFLUENT 1901219		UPSTREAM SAMPLE TYPE (CHECK ONE) ☐ 24HR COMPOSITE ☒ GRAB ☐ OTHER	
UPSTREAM 1901219A		PERMITTED EFFLUENT DAILY MAXIMUM LIMITATION FOR CHLORINE mg/L	
		AMMONIA mg/L	

PART B - TO BE COMPLETED IN FULL BY PERFORMING LABORATORY

PERFORMING LABORATORY Environmental Analysis South, Inc.		TEST TYPE Acute Static Non renewal Test Multiple Dilution	
FINAL REPORT NUMBER MO_1901219		TEST DURATION 48 hour	
DATE OF LAST REFERENCE TOXICANT TESTING July 8, 2015		TEST METHOD Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms	
DATE AND TIME SAMPLES RECEIVED AT LABORATORY 07/22/15 1025 hrs by UPS		TEST START DATE AND TIME 07/22/15 1100 hrs	TEST END DATE AND TIME 07/24/15 1100 hrs
SAMPLE DECHLORINATED PRIOR TO ANALYSIS? ☐ YES ☒ NO		TEST ORGANISM #1 AND AGE Pimephales promelas 5 days	TEST ORGANISM #2 AND AGE Ceriodaphnia dubia < 24 hours
EFFLUENT		90% OR GREATER SURVIVAL IN SYNTHETIC CONTROL? ☒ YES ☐ NO	DILUTION WATER USED TO ACHIEVE AEC upstream 1901219A
SAMPLE FILTERED ¹ PRIOR TO ANALYSIS? ☐ YES ☒ NO		EFFLUENT ORGANISM #1 % MORTALITY AT AEC LC50>100% Effluent	EFFLUENT ORGANISM #2 % MORTALITY AT AEC LC50>100% Effluent
EFFLUENT		UPSTREAM ORGANISM #1 % MORTALITY 0%	UPSTREAM ORGANISM #2 % MORTALITY 0%
FILTER MESH SIZE? None		TEST RESULT AT AEC FOR ORGANISM #1 ☒ PASS ☐ FAIL	TEST RESULT AT AEC FOR ORGANISM #2 ☒ PASS ☐ FAIL
SAMPLE AERATED DURING TESTING? ☐ YES ☒ NO			
pH ADJUSTED? ☐ YES ☒ NO			
EFFLUENT		UPSTREAM	

MINIMUM REQUIRED ANALYTICAL RESULTS FOR THE 100% EFFLUENT SAMPLE

PARAMETER	RESULT	METHOD	WHEN ANALYZED
Temperature °C	6	SM18 2550B stored at 4 degree C until test setup	07/22/15 1030 hrs
pH Standard Units	7.62	SM18 4500-H B	07/22/15 1030 hrs
Conductance µMohs	761	SM18 2510B	07/22/15 1030 hrs
Dissolved Oxygen mg/L	9.4	03/12/14 0945 hrsSM18 4500-O G	07/22/15 1030 hrs
Total Residual Chlorine mg/L	<0.04	SM18 4500-Cl G	07/22/15 1030 hrs
Unionized Ammonia mg/L	<0.05X0.02<0.01	SM18 4500-NH3 F @ 25 degree C	07/27/15 1050 hrs
*Total Alkalinity mg/L	346	SM18 2320B	07/22/15 1300 hrs
*Total Hardness mg/L	320	SM18 2340 C	07/22/15 1030 hrs

*Recommended by USEPA guidance, not a required analysis.

- ¹ Samples shall only be filtered if indigenous organisms are present that may be confused with, or attack, the test organisms.
² Filters shall have a sieve size of 60 microns or greater.

WHOLE EFFLUENT TOXICITY (WET) TEST REPORT

(TO BE ATTACHED TO WET TESTS FOR SUBMISSION TO THE REGULATORY AUTHORITY)

MINIMUM REQUIRED ANALYTICAL RESULTS FOR THE 100% UPSTREAM SAMPLE²

PARAMETER	RESULT	METHOD	WHEN ANALYZED
Temperature °C	6	SM18 2550B stored at 4 degree C until test setup	07/22/15 1030 hrs
pH Standard Units	8.22	SM18 4500-H B	07/22/15 1030 hrs
Conductance µMols	424	SM18 2510B	07/22/15 1030 hrs
Dissolved Oxygen mg/L	9.1	SM18 4500-O G	07/22/15 1030 hrs
Total Residual Chlorine mg/L	<0.04	SM18 4500-Cl G	07/22/15 1030 hrs
Unionized Ammonia mg/L	<0.05x0.08<0.010	SM18 4500-NH3 F @ 25 degree C	07/27/15 1050 hrs
*Total Alkalinity mg/L	215	SM18 2320B	07/22/15 1300 hrs
*Total Hardness mg/L	180	SM18 2340 C	07/22/15 1030 hrs

*Recommended by USEPA guidance, not a required analysis.

PRELIMINARY TEST ACCEPTABILITY MATRIX (FOR USE BY PERMITTEE IN DETERMINING TEST VALIDITY)

PERMIT ALLOWABLE EFFLUENT CONCENTRATION (AEC): As indicated on permit. Test is invalid otherwise.

EFFLUENT SAMPLE TYPE: As indicated on permit. Test is invalid otherwise.

TEST TYPE: Acute Static Non-Renewal Test or other as indicated on permit. Test is invalid otherwise.

TEST DURATION: Forty-eight (48) hours or as indicated on permit. Test is invalid otherwise.

TEST ORGANISMS: As indicated on permit. Test is invalid otherwise.

DILUTION WATER USED TO ACHIEVE AEC: Upstream receiving water required if available.

TEST METHOD: The only acceptable method is the *most current edition* of Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, or other as specifically assigned by EPA for determining NPDES compliance. Test is invalid otherwise.

TEST START DATE & TIME: Unless otherwise specified in writing by EPA, if >36 hours lapse between collection and initiation, test is invalid.

FILTER MESH SIEVE SIZE: Unless otherwise specified in writing by EPA, if sieve size is smaller than 60 microns, test is invalid.

90% OR GREATER SURVIVAL IN LABORATORY CONTROL(S) (Y/N): If NO, test is invalid.

PARAMETER	RESULT	NOTES	WHEN ANALYZED
Temperature °C	0 - 6	Unless received by the laboratory on the same day as collected, values outside this range invalidate the test.	Upon receipt

² Where no upstream control is available, enter results from laboratory or synthetic control.



Tabulation Sheet for the Building Paint Project Project Bids

Date Received	Bidding Contractor	Date & Time Opened	Project Item #	Budget	Bid Price	Contractor Warranty
8/13/2015	Bazan Painting Comp.	8/13/15 @ 1:00pm	Pressure Wash & Paint Buildings	\$10,000	\$34,748.00	Unknown
8/13/2015	Extreme Painting	8/13/15 @ 1:01pm	Pressure Wash & Paint Buildings	"	\$28,500.00	1 Year from Completion
8/13/2015	CCIMW, LLC	8/13/15 @ 1:02pm	Pressure Wash & Paint Buildings	"	\$10,747.00	1 Year from Completion



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8/13/2015	CCIMW, LLC	8/13/15 @ 1:02pm	Pressure Wash & Paint Buildings	"	\$10,747.00	1 Year from Completion