

**OSAGE BEACH/LAKE OZARK
JOINT SEWER BOARD MEETING
AGENDA
JULY 17, 2012
4:00 p.m.
LAKE OZARK CITY HALL**

1. CALL TO ORDER

2. ROLL CALL

Penny Lyons, Mayor, Osage Beach
Johnnie Franzekos, Mayor, Lake Ozark
Nancy Viselli, City Administrator, Osage Beach
Dave VanDee, City Administrator, Lake Ozark
Don Langley, Alderman, Lake Ozark
Fred Catcott, Alderman, Osage Beach
Rick King, Public Works Director, Osage Beach
Matt Michalik, Public Works Director, Lake Ozark
Gary Hamner

3. MINUTES

Page Numbers

Regular Meeting; June 19, 2012

3-4

4. REPORTS

Bill List	5-12
Revenue Budget Analysis	13
Expenditure Budget Analysis	15
Income & Expense Summary	17
Balance Sheet	19
Check Registers & Bank Statements	21-24
June 2012 Alliance Report and Flow Report	25-49

5. OLD BUSINESS

None at this time

6. NEW BUSINESS

None at this time

7. DISCUSSION

8. ADJOURNMENT

THE NEXT MEETING WILL BE AUGUST 21, 2012; 4:00 PM; LAKE OZARK CITY HALL

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

**Meeting Minutes
June 19, 2012**

Call to Order:

Mayor Penny Lyons called the meeting to order at 4:00 p.m. at Lake Ozark City Hall.

Roll Call:

Mayor Penny Lyons
Mayor Johnnie Franzekos
City Administrator Nancy Viselli - absent
City Administrator Dave Van Dee
Public Works Director Rick King
Public Works Director Matt Michalik - absent
Alderman Fred Catcott
Alderman Don Langley
Mr. Gary Hamner

Minutes of Past Meetings:

Mayor Lyons requested a motion to approve the minutes from May 15, 2012 meeting. Mayor Franzekos motioned to approve the minutes as written. Motion seconded by Mr. Hamner and unanimously approved.

Reports:

Financial Reports: Mayor Franzekos motioned approval to pay the bills as presented. Motion seconded by Alderman Catcott and unanimously approved. No other action was taken with regard to the financial reports.

April Alliance Report of Operations: Mr. Hutchcraft reviewed the May Operations Report, a copy of which was included in the meeting packet. With no questions or comments, Administrator Van Dee motioned to approve the May Flow Reports as presented. Motion seconded by Alderman Catcott and unanimously approved.

Old Business:

Joint Sewer Board vs. DNR. Attorney Rucker recommended that Mr. David Dressler of Zerger & Mauer be hired as an expert witness with regard to the litigation with a cap in expenses being set at \$5,000. After a short discussion, Administrator Van Dee motioned to hire the expert witness, with a \$5,000 cap, as per Attorney Rucker's recommendation. His motion was seconded by Mayor Franzekos and then was unanimously approved.

New Business:

Update on State Park sludge disposal. Mr. Hutchcraft advised that the State Park (Public Beach #1) had been hiring Handy Jon to haul their sludge. The State Park is now under new management and will now be hauling their sludge themselves.

Correspondence from the DNR regarding a failure to submit an interim progress report detailing steps taken to comply with effluent limitations was discussed. Mr. Hutchcraft noted that he had already responded to the correspondence. It was noted that this particular report was not referenced in the Draft Operating Permit.

Open Discussion: None at this time.

Adjournment:

With nothing further to discuss, the meeting was adjourned at 4:20 pm. The next regularly scheduled meeting is Tuesday, July 17, 2012, 4:00 pm., Lake Ozark City Hall.

Penny Lyons
Mayor, Osage Beach

Kathy Vance
Temporary Joint Sewer Clerk, Lake Ozark

JOINT SEWER BOARD

BILL LIST

July 17, 2012

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ 31,176.57
OPERATING FUND BILLS TO BE PAID:	\$ 11,360.53
EQUIPMENT REPLACEMENT FUND BILLS PAID PRIOR TO BOARD MEETING:	\$ -
EQUIPMENT REPLACEMENT FUND BILLS TO BE PAID:	\$ -
TOTAL	\$ 42,537.10

OPERATING FUND BILLS PAID PRIOR TO BOARD MEETING:

Account	Check	Paid To:	Description:	Amount:
4010	3207	Alliance Water Resources, Inc.	July 2012 Management Fee	\$ 22,745.70
4185	3208	Ameren Missouri	June 2012 Utility Bill	\$ 8,430.87
TOTAL				\$ 31,176.57

OPERATING FUND BILLS TO BE PAID:

Account	Check	Paid To:	Description:	Amount:
4000	3209	Equipment Replacement Fund	New Basin -Loan Payment	\$ 2,330.12
4170	3210	Equipment Replacement Fund	Payment into ER Fund	\$ 3,467.17
4160	3211	Alliance Water Resources, Inc.	Hauled Waste	\$ 1,180.00
4020	3212	Alliance Water Resources, Inc.	Misc Repair/Main	\$ 71.39
4020	3213	Zerger & Mauer	Magruder Lawsuit June 2012	\$ 4,311.85
				\$ 11,360.53

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:
				\$ -

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: 5312

SOLD TO:

01-Jul-12

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: Jul-12	
	Base Fee	\$22,745.70
TOTAL DUE		\$22,745.70

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: 5311

Invoice Date: 30-Jun-12

Customer No: 20220

Terms: 30 days

REFERENCE	DESCRIPTION	AMOUNT
	Hauled waste payments for the month of Jun-12	
	3 Hauled Waste Loads @ \$20.00 each	\$60.00
	20 Hauled Waste Loads @ \$50.00 each	\$1,000.00
	2 Hauled Waste Loads @ \$60.00 each	\$120.00
TOTAL DUE		\$1,180.00

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: 5340

Invoice Date: 01-Jul-12

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
	Sherwin Williams Co. - 1 Invoice- 50%	\$71.39
TOTAL DUE		\$71.39



Please Return This Portion With Your Payment.

☐ Pure Power

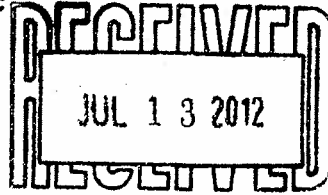
AMOUNT DUE	DUE DATE
\$203.92	Jul 20, 2012
AMOUNT PAYABLE AFTER Jul 31, 2012	ACCOUNT NUMBER
\$206.98	55800-05920

Amount Enclosed \$ _____



>00579 2020256 0001 092139
ALLIANCE WATER RESOURCES INC
3 ANDERSON RD
LAKE OZARK, MO 65049

00579 1 SP 0.450



Ameren Missouri
P.O. Box 66301
St. Louis, MO 63166-6301

40633000 0055800059200 000000203920 000000203920

Keep This Portion For Your Records

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

BILL DATE	Jul 10, 2012
-----------	--------------

TOTAL AMOUNT DUE BY	Jul 20, 2012	\$203.92
DELINQUENT AFTER	Jul 31, 2012	\$206.98

Payment Received on Jun 14, 2012:

\$121.21

TYPE OF READING	METER NUMBER	SERVICE FROM TO	NO DAYS	PREVIOUS METER READING	PRESENT METER READING	READING DIFFERENCE	METER MULTIPLIER	THERM FACTOR	USAGE	R D
Total kWh	98041275	06/06-07/08	32	552.0000	737.0000	185.0000	10.0000		1850.0000	A
Peak kW	98041275	06/06-07/08	32	0.0000	4.1350	4.1350	10.0000		41.3500	A

Total kWh Service To 07/08/2012

1850.0000

Service To

METERED ELECTRIC SERVICE BILLING

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

Service From 06/06/2012 To 07/08/2012

Total Energy Charge	1,850.00 kWh	@ \$.09660000	\$178.71
Customer Charge			\$19.51
Fuel Adjustment Charge	1,850.00 kWh	@ \$.00288000	\$5.33
Energy Efficiency Pgm Charge	1,850.00 kWh	@ \$.00020000	\$0.37
Total Service Amount			\$203.92

\$203.92

Current Amount Due	\$203.92
Prior Amount Due	\$0.00
Total Amount Due	\$203.92

Sign up for Pure Power to support clean renewable energy in Missouri and the Midwest. By checking the box, a 1.5 cents 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.



THE SHERWIN-WILLIAMS CO.
5151 OSAGE BEACH PKWY #A
OSAGE BEACH MO 65065 3285



SHERWIN-WILLIAMS.

Visit www.sherwin-williams.com
Store 3106
(573) 348-1541

**CHARGE
INVOICE
No. 5266-4**

ACCOUNT: 1026-3248-6

JOB 01 ALLIANCE WATER RESOURCES INC

PAGE 1 OF 1
PO#

SHIPPED TO:

LOOB

DATE: 06/13/2012
TIME: 1:02 PM

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

2-0100
E7716316

(573) 365-0455

TERMS: NET PAYMENT DUE ON JULY 20TH

SALES NUMBER	SIZE	PRODUCT	DESCRIPTION	QTY	PRICE	VALUE
136-1559	GALLON	B66R38	DTM ACR GLS SAF RED	2	71.39	142.78

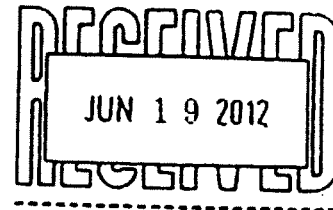
Thank You
receipt required for refund

SUBTOTAL 142.78
7.475% SALES TAX: 1-266506500 10.67
CHARGE \$153.45

MERCHANDISE RECEIVED IN GOOD ORDER BY:

GARY

FIRE HYDRANT & VALUE PAINT



GL Acct#: 6700-20 \$82.06 1220-20 \$71.39

Signature: [Signature]

Date: 6/19/12

ZERGER & MAUER LLP

1100 Main Street

Suite 2100

Kansas City, MO 64105 816/759-3300 Federal ID No. 27-5426971

STATEMENT

PRIVILEGED & CONFIDENTIAL

City of Osage Beach
 c/o Nancy Viselli
 1000 City Parkway
 Osage Beach, MO 65065

Account No. 1014.0002
 RE: Magruder

Statement Date: 06/27/2012
 Statement No. 1413
 Page No. 1

Fees

		Rate	Hours	
05/01/2012				
MLR	Review and analyze designations of record by Magruder in order to draft objections to same.	250.00	1.30	325.00
MLR	Draft and revise objections to designation of record by Magruder.	250.00	2.00	500.00
MLR	Review and analyze expert testimony and exhibits provided at first hearing by Don Dressler, communicate with Dressler Consulting regarding possibility of supplementing testimony with current information.	250.00	1.50	375.00
05/02/2012				
MLR	Draft and revise description of testimony and witness list to file with the Commission.	250.00	2.00	500.00
EDC	Review of file regarding hearing transcript, locate exhibits to prior hearing, assemble various documents for review by M. L. Rayl	160.00	2.50	400.00
05/03/2012				
MLR	Communicate with potential expert witness regarding ability to provide testimony.	250.00	0.30	75.00
05/07/2012				
MLR	Communicate with potential expert witness David Dressler, review and analyze credentials of Mr. Dressler, finalize witness list and objections to designations of the record made by Magruder, file same with the Commission.	250.00	1.90	475.00
SEM	Telephone conference with A. Troutwine regarding witness list and exhibit list; prepare notes regarding same.	280.00	0.50	140.00
05/08/2012				
MLR	Plan and prepare for meeting with potential expert witness, David Dressler.	250.00	1.00	250.00

To ensure proper credit, please include account number and statement date on remittance checks. Thank you.

City of Osage Beach
 Account No. 1014.0002
 RE: Magruder

Statement Date: 06/27/2012
 Statement No. 1413
 Page No. 2

		Rate	Hours	
05/09/2012	MLR			
	Outside conference with potential expert witness, David Dressler, to discuss background of case and initial thoughts on validity of Magruder blast plan and risk to nearby structures; planning and preparation for same.	250.00	1.80	450.00
05/10/2012	SEM			
	Telephone conference with E. Rucker regarding update; prepare letter to clients regarding our designation of testimony from the record and our witness list; prepare notes regarding same. NO CHARGE	280.00		
05/15/2012	SEM			
	Telephone conference with E. Rucker regarding update and request to hire D. Dressler; prepare notes regarding same. NO CHARGE	280.00		
05/16/2012	SEM			
	Review extension of time requested by Magruder; prepare letter to Mayor Lyons, N. Viselli and E. Rucker regarding same.	280.00	2.00	560.00
05/17/2012	SEM			
	Review fee schedule for D. Dressler; prepare letter to E. Rucker regarding agreement to hire him. NO CHARGE	280.00		
05/29/2012	SEM			
	Review filings by Magruder; prepare notes regarding same; prepare letter to Mayor Lyons, N. Viselli and E. Rucker regarding same; prepare letter to R. Brownlee regarding failure to serve us.	280.00	0.50	140.00
	For Current Services Rendered		17.30	4,190.00
<u>Expenses</u>				
05/07/2012	Photocopy charges			
05/07/2012	Postage			17.60
05/16/2012	Photocopy charges			7.20
05/16/2012	Postage			1.00
05/17/2012	Photocopy charges			0.45
05/17/2012	Postage			0.40
05/30/2012	Photocopy charges			0.45
05/30/2012	Postage			2.40
	Total Expenses			1.35
				30.85

City of Osage Beach
Account No. 1014.0002
RE: Magruder

Statement Date: 06/27/2012
Statement No. 1413
Page No. 3

	Total Current Work	4,220.85
	Previous Balance	\$7,434.15
	<u>Payments</u>	
06/12/2012	Payment	-7,343.15
	Balance Due	<u>\$4,311.85</u>

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

Account Number	Account Name	6/30/2012					Percent YTD
		2010 Actual	2011 Actual	2012 Budget	2012 Actual as of 6/30/2012	2012 June Revenue	
3020	Osage Beach	407,036.02	399,428.80	401,800.00	198,835.10	33,252.37	49%
3010	Lake Ozark	92,130.61	90,571.18	88,200.00	46,164.90	7,580.97	52%
	Generator Grant			240,000.00	0.00		0%
3100	Interest	136.11	804.37	400.00	322.25	6.61	81%
3060	Waste Haulers' Fee	41,630.00	39,457.00	38,000.00	19,180.00	5,520.00	50%
Total Operating Fund		540,932.74	530,261.35	768,400.00	264,502.25	46,359.95	34%
E/R Fund Income		1,645.40	1,355.61	1,000.00	640.12	10.26	64%
TOTAL INCOME		542,578.14	531,616.96	769,400.00	265,142.37	46,370.21	34%

This page left blank

**MONTH-TO-DATE AND YEAR-TO-DATE
EXPENDITURE/BUDGET ANALYSIS
6/30/2012**

Account Number	Account Name	2010 Actual	2011 Actual	2012 Budget	2012 Actual as of 6/30/2012	2012 June Expenses	Percent YTD
4000	Equipment Replace Fund	41,606.04	41,606.04	41,606.04	20,803.02	3,467.17	50%
4010	ERF Repayment	27,961.44	27,961.44	27,961.44	13,980.72	2,330.12	50%
4020	**Maintenance & Repair	15,611.62	46,319.94	95,500.00	46,540.31	162.99	49%
4140	Insurance	16,211.00	17,127.00	17,500.00	20,962.00	0.00	120%
4150	Vehicle Repair/Maint	2,660.05	2,835.38	7,000.00	5,032.25	130.95	72%
4160	Haulers Fees to Contractor	8,000.00	8,000.00	8,000.00	6,820.00	1,300.00	85%
4170	Contract Management	312,836.20	266,524.58	269,000.00	136,474.20	22,745.70	51%
4185	Electric	0.00	61,407.39	78,000.00	24,615.66	7,119.68	32%
4190	Miscellaneous	0.00	0.00	0.00	0.00	0.00	0%
4200	Audit	1,600.00	1,650.00	1,700.00	0.00	0.00	0%
4220	***Professional Service	24,828.71	19,298.33	30,000.00	14,104.89	7,434.15	47%
4240	*Capital Purchases	1,659.40	13,241.91	242,000.00	0.00	0.00	0%
4250	Equip Purchase Grant Match	0.00	0.00	60,000.00	0.00	0.00	0%
	Totals	452,974.46	505,972.01	878,267.48	289,333.05	44,690.76	33%
	**E/R Expenses	31,809.73	1,523.00	10,000.00	0.00	0.00	0%
	TOTAL EXPENSES	484,784.19	507,495.01	888,267.48	289,333.05	44,690.76	33%
	***Professional Services:						
	Normal/Magruder Lawsuit		25,000.00				300,000.00
			<u>25,000.00</u>				<u>2,000.00</u>
							<u>302,000.00</u>
	**Maintenance & Repair						
	PAID 05/12 UV Spare Parts						5,000.00
	Replace Wooden drs w/ Fiberglass						2,000.00
	Auto Dialer Yearly Software Fee						500.00
	Rock for Road						2,000.00
	Normal Maintenance						6,000.00
	#1 Aeration Basin Main.						40,000.00
	#2 Clarifier Sandblast and Repaint						40,000.00
							<u>95,500.00</u>

This page left blank

OPERATING FUND INCOME AND EXPENSE SUMMARY
6/30/2012

Beginning Balance	175,727.00
Income - Osage Beach	33,252.37
Income - Lake Ozark	7,580.97
Income - Other	0.00
Income - Waste Haulers' Fees	5,520.00
Interest - Checking	6.61
Income - CD Interest	0.00
Transfers From E/R Fund	0.00
Transfers to E/R fund	-5,797.29
Expenses	-38,893.47
Ending Fund Balance	177,396.19
NOW Account - Central Bank	76,441.40
CD First National Bank, 1.00%, 07/24/12 #000049	100,954.79
Outstanding Checks:	0.00
Deposit in Transit:	0.00
	177,396.19

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY
6/30/2012

Beginning Balance	273,081.36
Interest - Checking	10.26
Income - CD Interest	0.00
Transfers From E/R Fund	5,797.29
Transfers to E/R Fund	0.00
Income - Miscellaneous	0.00
Expenses	0.00
Ending Fund Balance	278,888.91
NOW Account - First Bank	90,885.63
CD First National Bank, 1.00%, 07/09/12 #000048	112,806.94
CD Providence Bank, 1.05% 04/19/13	75,196.34
Deposit in Transit	0.00
Outstanding Checks:	0.00
	278,888.91

This page left blank

**OPERATING FUND
BALANCE SHEET
6/30/2012**

		DEBITS	CREDITS	
ASSETS	CASH AND INVESTMENTS	177,396.19		
ACCOUNTS PAYABLE	DUE TO E.R. FUND - BASIN		37,884.62	
EQUITY	FUND BALANCE		139,511.57	
TOTAL OPERATING FUND		177,396.19	177,396.19	.

**EQUIPMENT REPLACEMENT FUND
BALANCE SHEET
6/30/2012**

		DEBITS	CREDITS	
ASSETS	CASH AND INVESTMENTS	278,888.91		
ACCOUNTS RECEIVABLE	DUE FROM OPERATING FUND - BASIN	37,884.62		
EQUITY	FUND BALANCE		316,773.53	
TOTAL EQUIPMENT REPLACEMENT FUND		316,773.53	316,773.53	.

This page left blank

Operating Fund

CHECK REGISTER - JOINT SEWER BOARD OPERATION FUND

	reconciled balance 3/31/12			99,105.12
3180	Alliance Water Resources, Inc.	X	22,745.70	76,359.42
3181	ER Fund Transfer	X	3,467.17	72,892.25
3182	ER Fund Loan Payment	X	2,330.12	70,562.13
3183	Alliance Water Resources, Inc.	X	2,070.00	68,492.13
3184	Alliance Water Resources, Inc.	X	1,432.58	67,059.55
3185	Zerger & Mauer	X	502.65	66,556.90
3186	Ameren UE	X	4,199.74	62,357.16
3187	Xylem Water Solutions	X	1,421.48	60,935.68
3188	GLW	X	2,238.80	58,696.88
	Deposit	X		8,015.59
	Deposit	X		32,817.74
	Deposit	X		3,480.00
	Interest	X		8.98
	reconciled balance 4/30/12			103,019.19
3189	Alliance Water Resources, Inc.	X	22,745.70	80,273.49
3190	ER Fund Transfer	X	3,467.17	76,806.32
3191	ER Fund Loan Payment	X	2,330.12	74,476.20
3192	Alliance Water Resources, Inc.	X	1,740.00	72,736.20
3193	Alliance Water Resources, Inc.	X	163.54	72,572.66
3194	Zerger & Mauer	X	6,526.17	66,046.49
3196	Ameren UE	X	3,942.58	62,103.91
3197	Travelers	X	20,962.00	41,141.91
3198	Purcell	X	4,683.79	36,458.12
32199	UV Doctors	X	5,128.42	31,329.70
	Deposit	X		2,600.00
	Deposit	X		33,035.67
	Deposit	X		7,797.66
	Interest	X		9.18
	reconciled balance 5/31/12			74,772.21
3200	Alliance Water Resources, Inc.	X	22,745.70	52,026.51
3201	Ameren UE	X	7,119.68	44,906.83
3202	Alliance Water Resources, Inc.	X	1,300.00	43,606.83
3203	ER Fund Transfer	X	2,330.12	41,276.71
3204	ER Fund Loan Payment	X	3,467.17	37,809.54
3205	Alliance Water Resources, Inc.	X	293.94	37,515.60
3205	Zerger & Mauer	X	7,434.15	30,081.45
	Deposit	X		5,520.00
	Deposit	X		33,252.37
	Deposit	X		7,580.97
	Interest	X		6.61
	reconciled balance 6/30/12			76,441.40



Central Bank of Lake of the Ozarks

MEMBER FDIC

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

001968

Return Service Requested



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

Period 06/01/2012-06/29/2012 Page 1 of 2

Web Address
www.cbolobank.com

Your Financial Summary on June 29, 2012

Account Balances & Other Assets

Checking	\$ 76,441.40
Total	\$ 76,441.40

Detailed Explanation of Account Balances and Other Assets

est Checking

Beginning Balance May 31, 2012

\$ 74,772.21

Deposits

June 08 Deposit	120.00
June 14 Deposit	7,580.97
June 14 Deposit	33,252.37
June 21 Deposit	5,400.00
June 29 Interest Earned	6.61

Total **+\$ 46,359.95**

Checks

Check No.	Date Paid	Amount	Check No.	Date Paid	Amount
3200	June 15	22,745.70	3204	June 22	3,467.17
3201	June 15	7,119.68	3205	June 21	293.94
3202	June 21	1,300.00	3206	June 28	7,434.15
3203	June 22	2,330.12			

Total **-\$ 44,690.76**

Ending Balance June 29, 2012

\$ 76,441.40

Number of days since last statement/interest cycle 30
Beginning and ending dates for calculation of statement/interest cycle are 06/01/2012 through 06/30/2012
Average collected balance 80,702.00
Interest rate 0.10%
Annual percentage yield earned 0.10%

CHECK REGISTER - JOINT SEWER BOARD EQUIPMENT REPLACEMENT FUND

	reconciled balance 12/31/11			131,038.27
1001	Check	X	75,000.00	56,038.27
	Interest	X	17.41	56,055.68
	Deposit	X	5,797.29	61,852.97
	reconciled balance 1/31/12			61,852.97
	Interest	X	7.51	61,860.48
	Deposit	X	5,797.29	67,657.77
	reconciled balance 2/29/12			67,657.77
	Interest	X	8.53	67,666.30
	Deposit	X	5,797.29	73,463.59
	reconciled balance 3/31/12			73,463.59
	Interest	X	9.55	73,473.14
	Deposit	X	5,797.29	79,270.43
	reconciled balance 4/30/12			79,270.43
	Interest	X	10.36	79,280.79
	Deposit	X	5,797.29	85,078.08
	reconciled balance 5/31/12			85,078.08
	Interest	X	10.26	85,088.34
	Deposit	X	5,797.29	90,885.63
	reconciled balance 6/30/12			90,885.63



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

536 00010 26
ACCOUNT:
DOCUMENTS:

PAGE: 1
06/29/2012

100

LAKE OZARK-OSAGE BEACH JOINT
SEWER BD.-TREATMENT PLANT BD.
1000 CITY PARKWAY
OSAGE BEACH MO 65065

OUR CURRENT 12 MONTH CD RATE IS .65% WITH AND APY OF .65%

BUSINESS MMDA ACCOUNT

LAST STATEMENT 05/31/12 85,078.08
2 CREDITS 5,807.55
DEBITS .00
THIS STATEMENT 06/29/12 90,885.63

REF #.....DATE.....AMOUNT REF #.....DATE.....AMOUNT REF #.....DATE.....AMOUNT
06/21 5,797.29

DESCRIPTION OTHER CREDITS DATE AMOUNT
INTEREST 06/29 10.26

I N T E R E S T

AVERAGE LEDGER BALANCE: 86,877.23 INTEREST EARNED: 10.26
AVERAGE AVAILABLE BALANCE: 86,077.61 DAYS IN PERIOD: 29
INTEREST PAID THIS PERIOD: 10.26 ANNUAL PERCENTAGE YIELD EARNED: .15%
INTEREST PAID 2012: 63.62

ITEMIZATION OF OVERDRAFT AND RETURNED ITEM FEES

	TOTAL FOR THIS PERIOD	TOTAL YEAR TO DATE
TOTAL OVERDRAFT FEES:	\$.00	\$.00
TOTAL RETURNED ITEM FEES:	\$.00	\$.00

*** CONTINUED ***



NOTICE: SEE REVERSE SIDE - 24 - IMPORTANT INFORMATION





**OPERATING
DIVISIONS**

MISSOURI

Bonne Terre

Bowling Green

Buchanan County #1

Cameron

Cape Girardeau

East Central Missouri
Water & Sewer
Authority

Elsberry

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

Sedalia

St Charles County #2

St Genevieve

Versailles

IOWA

Maquoketa

Tipton

REPORT OF OPERATIONS

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

Month of June 2012

Submitted by Alliance Water Resources, Inc. for the

July 2012

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 have occurred 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

	<u>BOD</u> <u>mg/l</u>	<u>TSS</u> <u>mg/l</u>	<u>pH</u>	<u>Fecal Coliform</u> <u>Colonies/100 ml</u>
Monthly Average	1.5	1.0	NA	< 20
Peak Day	2.0	1.4	8.1	< 20
Percent Removal	99.3	99.5	NA	NA

NPDES EFFLUENT LIMITATIONS

	<u>BOD</u> <u>mg/l</u>	<u>TSS</u> <u>mg/l</u>	<u>pH</u>	<u>Fecal Coliform</u> <u>Colonies/100 ml</u>
Monthly Average	30	30	6-9	400 col/100 ml
Weekly Average	45	45		

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.562 MGD or 52% of Permitted flow with Lake Ozark contributing 17% of the total flow and Osage Beach contributing 83%. 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 84497 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 56 tanker loads of bio-solids during the month equivalent to a total of 207,200 gallons and 60,513 pounds dry weight solids.

306,514 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 205,000 gallons with a level of 1.0 feet in Tank 1 and 3.0 feet in Tank 2.

WASTEHAULERS

The plant received 55 loads of septage during the month totaling 138,000 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.
- We were able to shut down one aerator in each ditch all month, except on weekends when the flows were up.

WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Antero Maintenance Data Management schedule. (New version of Operator 10 Software)
- We finished painting the fire hydrants on the 13th & 14th.
- We changed out 2 UV bulbs on the 20th.
- The ducking skimmer arm mechanism on Clarifier #1 is in need of the manual hand wheel clutch assembly and drive gear. We are still waiting on the vendor to get back with us on a quote and availability.

SAFETY

- We conducted our monthly routine Safety Meeting on Proper Protective Equipment on the 14th of June.

REGULATORY AGENCY, INSPECTION AND REPORTS

- Mailed DMR to MDNR on the 6th of July.
We received the results to our annual WET test on the 22nd and passed with 100% on both our Effluent and upstream. (see attachment)

MISCELLANEOUS AND RECOMMENDATIONS

TABLE A
LAKE OZARK/OSAGE BEACH WWTP

MONTH OF June 2012

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-Jun		0.235	1.158	1.393	16.9	83.1	228	175	198	190	150	150
2-Jun		0.249	1.197	1.446	17.2	82.8						
3-Jun		0.299	1.313	1.612	18.5	81.5						
4-Jun		0.276	1.191	1.467	18.8	81.2						
5-Jun		0.230	1.106	1.336	17.2	82.8						
6-Jun		0.223	1.049	1.272	17.5	82.5						
7-Jun		0.213	1.112	1.325	16.1	83.9						
8-Jun		0.225	1.099	1.324	17.0	83.0	148	198	205	92	158	162
9-Jun		0.271	1.309	1.580	17.2	82.8						
10-Jun		0.320	1.792	2.112	15.2	84.8						
11-Jun		0.273	1.305	1.578	17.3	82.7						
12-Jun	0.8	0.246	1.252	1.498	16.4	83.6						
13-Jun		0.236	1.198	1.434	16.5	83.5						
14-Jun		0.223	1.176	1.399	15.9	84.1						
15-Jun		0.230	1.224	1.454	15.8	84.2	240	225	260	336	126	218
16-Jun		0.284	1.875	2.159	13.2	86.8						
17-Jun	0.6	0.292	1.054	1.346	21.7	78.3						
18-Jun		0.271	1.311	1.582	17.1	82.9						
19-Jun		0.226	1.252	1.478	15.3	84.7						
20-Jun		0.245	1.310	1.555	15.8	84.2						
21-Jun		0.237	1.377	1.614	14.7	85.3						
22-Jun		0.218	1.295	1.513	14.4	85.6	205	280	218	178	220	206
23-Jun		0.310	1.484	1.794	17.3	82.7						
24-Jun		0.349	1.560	1.909	18.3	81.7						
25-Jun		0.304	1.437	1.741	17.5	82.5						
26-Jun		0.267	1.366	1.633	16.4	83.6						
27-Jun		0.259	1.273	1.532	16.9	83.1						
28-Jun		0.261	1.239	1.500	17.4	82.6						
29-Jun		0.259	1.293	1.552	16.7	83.3	190	183	200	200	204	240
30-Jun		0.310	1.414	1.724	18.0	82.0						
SUM	1.4	7.841	39.021	46.862								
AVG		0.261	1.301	1.562	17	83	202	212	216	199	172	195
NOTE: BOLD PRINT INDICATES WEEKEND DAYS												

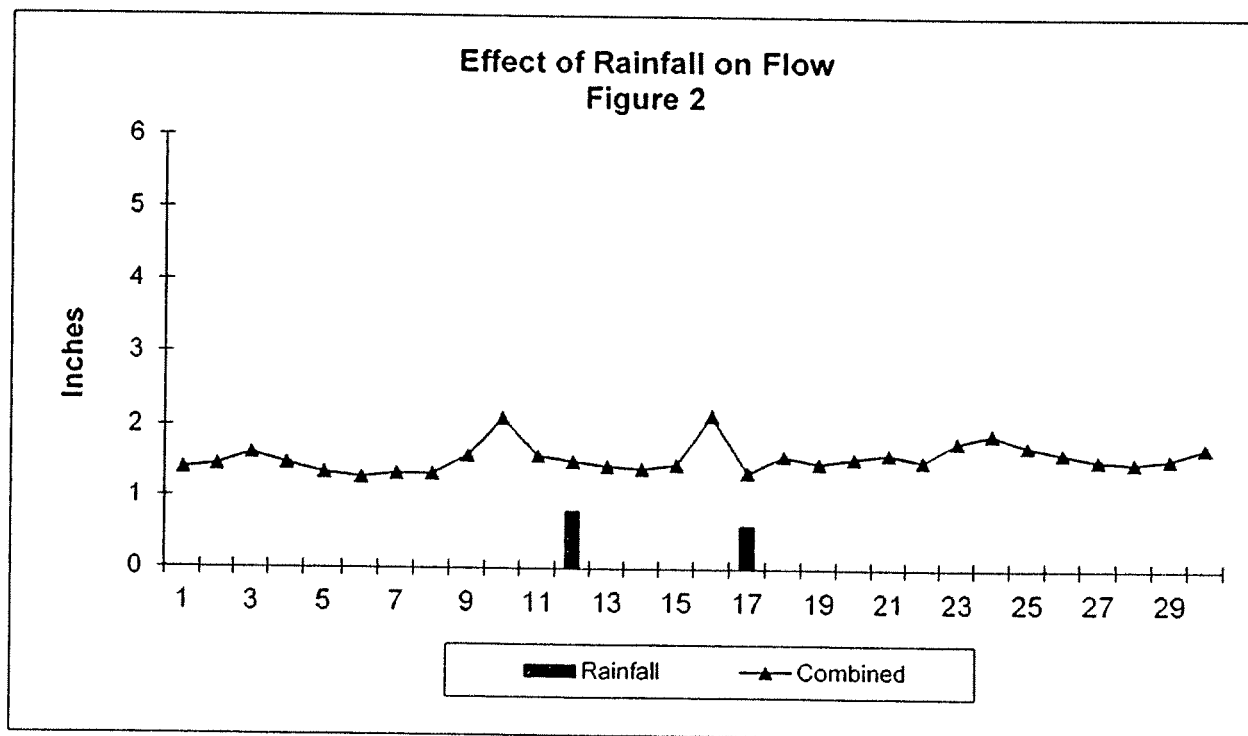
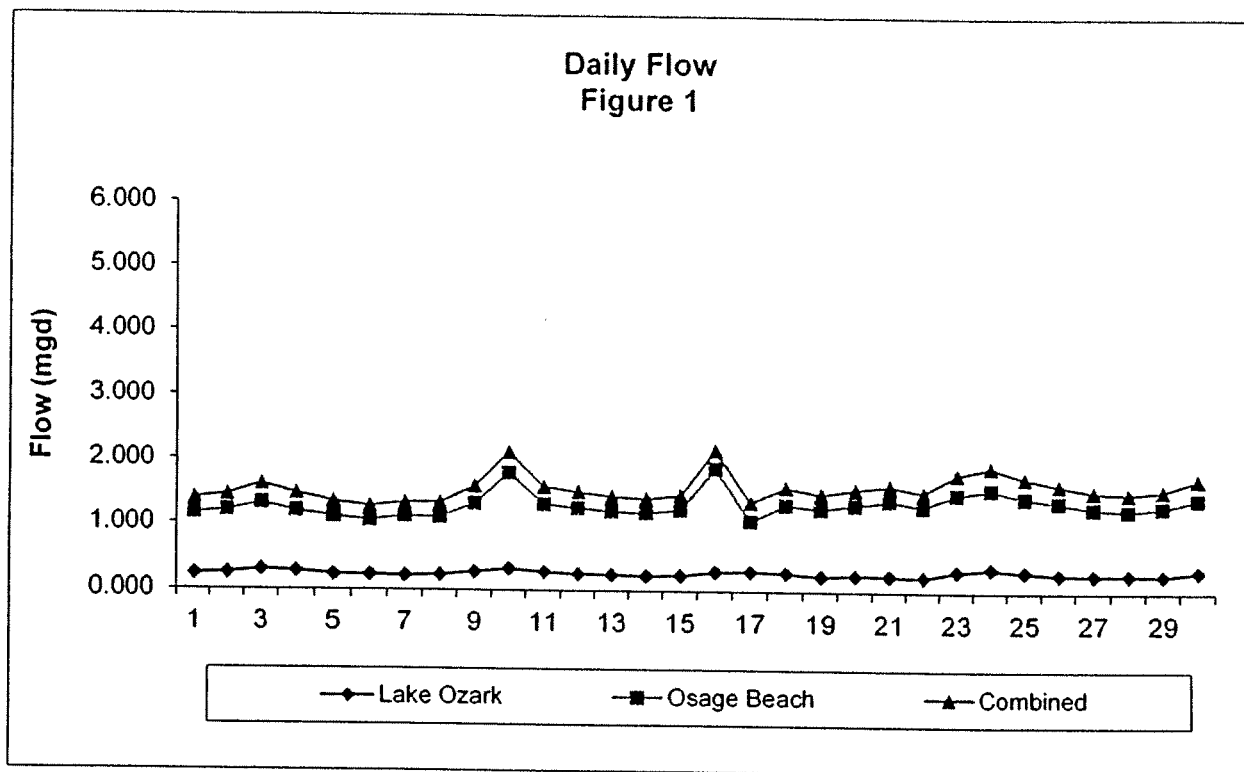
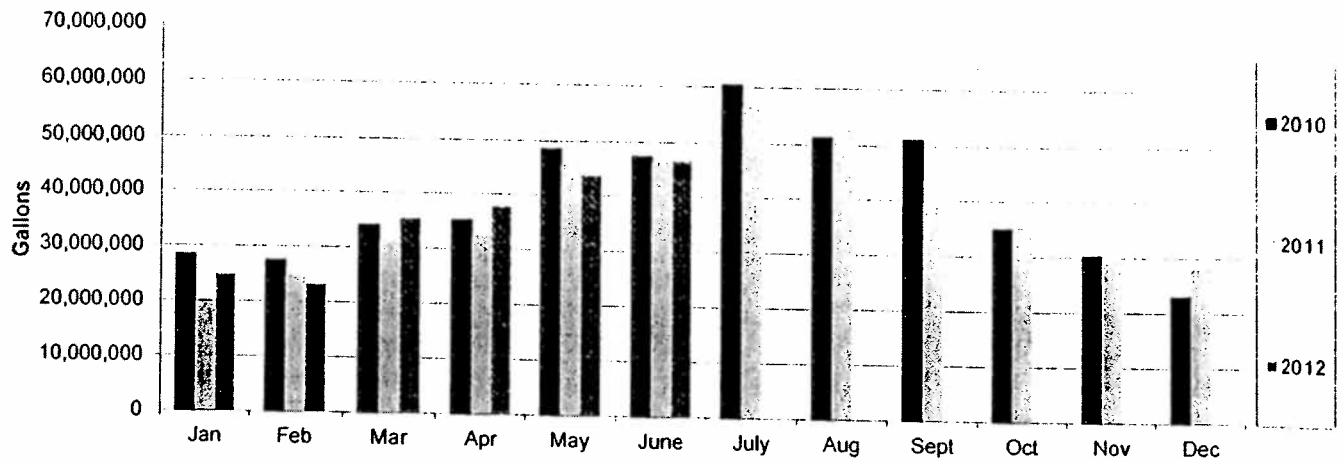


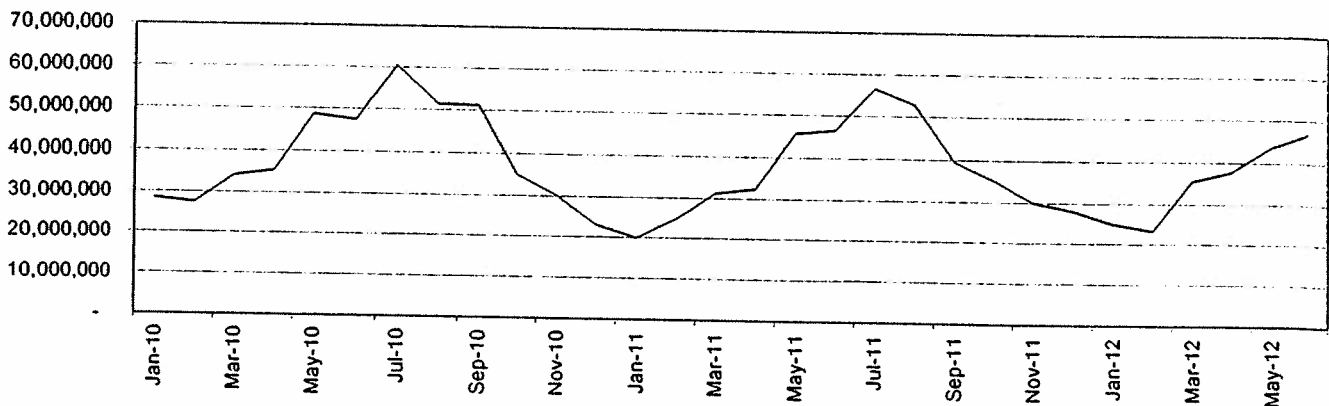
TABLE B
JOINT SEWER BOARD
Monthly Flows

<u>2010</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	3.6	22,407,000	78%	6,144,000	22%	28,551,000	100%
February	2.8	21,783,000	79%	5,753,000	21%	27,536,000	100%
March	3.8	27,636,000	81%	6,500,000	19%	34,136,000	100%
April	3.6	28,951,000	82%	6,386,000	18%	35,337,000	100%
May	10.2	39,970,000	82%	8,765,000	18%	48,735,000	100%
June	4.4	39,496,000	83%	8,067,000	17%	47,563,000	100%
July	6.2	50,636,000	84%	9,837,000	16%	60,473,000	100%
August	2.7	42,922,000	83%	8,532,000	17%	51,454,000	100%
September	13.2	42,731,000	83%	8,532,000	17%	51,263,000	100%
October	0.4	28,896,000	82%	6,177,000	18%	35,073,000	100%
November	4.8	25,040,000	82%	5,315,000	18%	30,355,000	100%
December	0.4	18,634,000	81%	4,426,000	19%	23,060,000	100%
	55.9	389,102,000	82%	80,008,000	18%	473,536,000	100%
<u>2011</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	0.8	15,566,000	78%	4,395,000	22%	19,961,000	100%
February	4.8	19,737,000	80%	5,030,000	20%	24,767,000	100%
March	4.7	25,055,000	80%	6,183,000	20%	31,238,000	100%
April	4.8	26,299,000	81%	6,158,000	19%	32,457,000	100%
May	11.8	37,286,000	81%	8,523,000	19%	45,809,000	100%
June	4.4	38,748,000	83%	7,821,000	17%	46,569,000	100%
July	0.3	47,316,000	84%	9,297,000	16%	56,613,000	100%
August	6.5	44,175,000	84%	8,704,000	16%	52,879,000	100%
September	2.7	32,672,000	82%	6,999,000	18%	39,671,000	100%
October	2.3	28,932,000	82%	6,388,000	18%	35,320,000	100%
November	5.6	24,495,000	81%	5,589,000	19%	30,084,000	100%
December	3.5	22,789,000	81%	5,298,000	19%	28,087,000	100%
	52.1	363,070,000	81%	75,087,000	19%	443,455,000	100%
<u>2012</u>	<u>RAINFALL</u>	<u>OSAGE BEACH</u>		<u>LAKE OZARK</u>		<u>TOTAL</u>	<u>%</u>
January	0.7	20,401,000	82%	4,577,000	18%	24,978,000	100%
February	2.4	18,682,000	80%	4,563,000	20%	23,245,000	100%
March	6.3	28,720,000	81%	6,779,000	19%	35,499,000	100%
April	8.0	30,919,000	81%	7,049,000	19%	37,968,000	100%
May	1.6	35,910,000	82%	7,801,000	18%	43,711,000	100%
June	1.4	39,021,000	83%	7,841,000	17%	46,862,000	100%
July							
August							
September							
October							
November							
December							
	20.3	173,653,000	82%	38,610,000	18%	212,263,000	100%

Monthly Influent Flow
Figure 3A

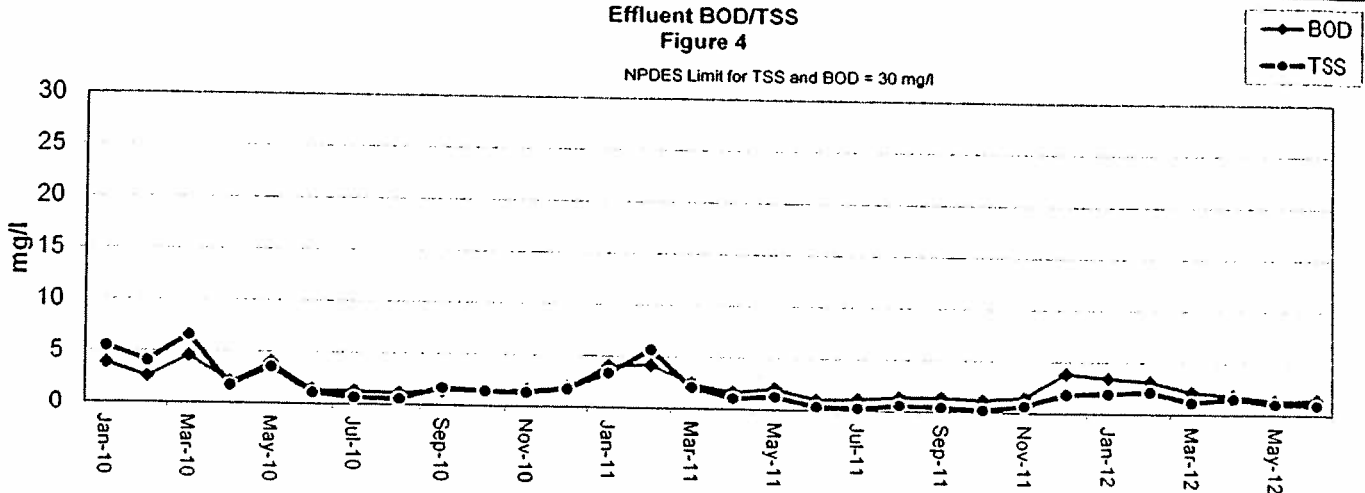


Monthly Influent Flow
Figure 3B

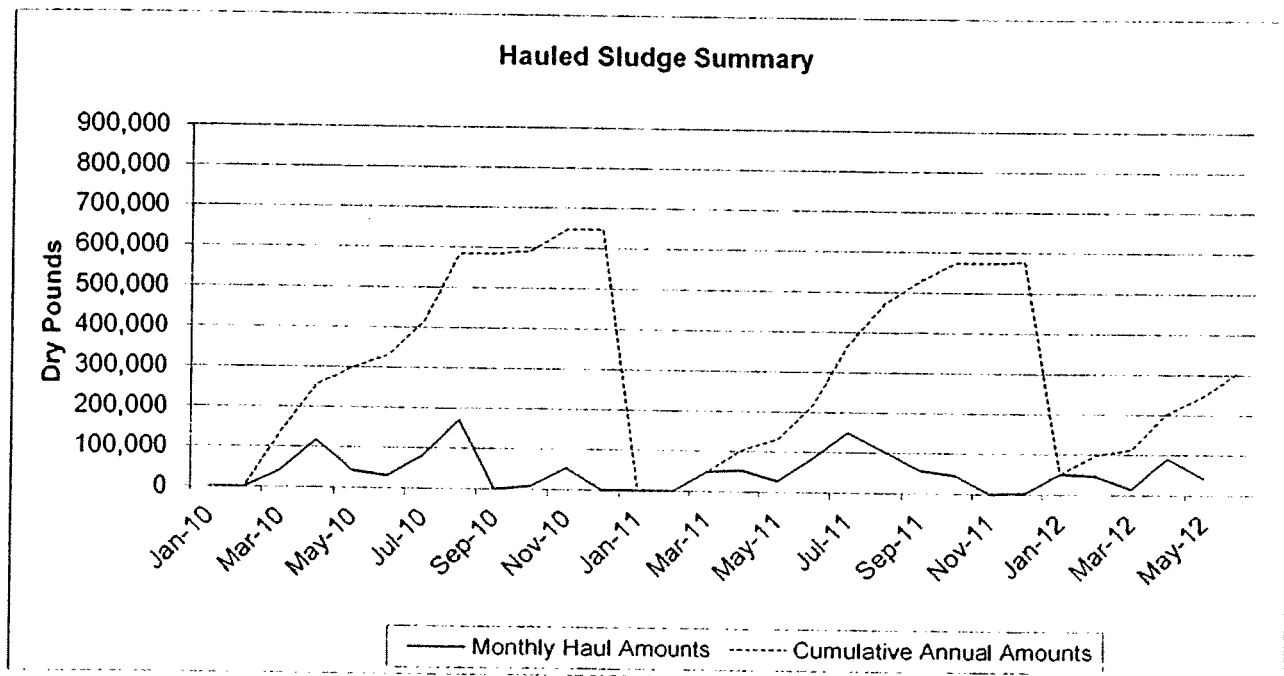
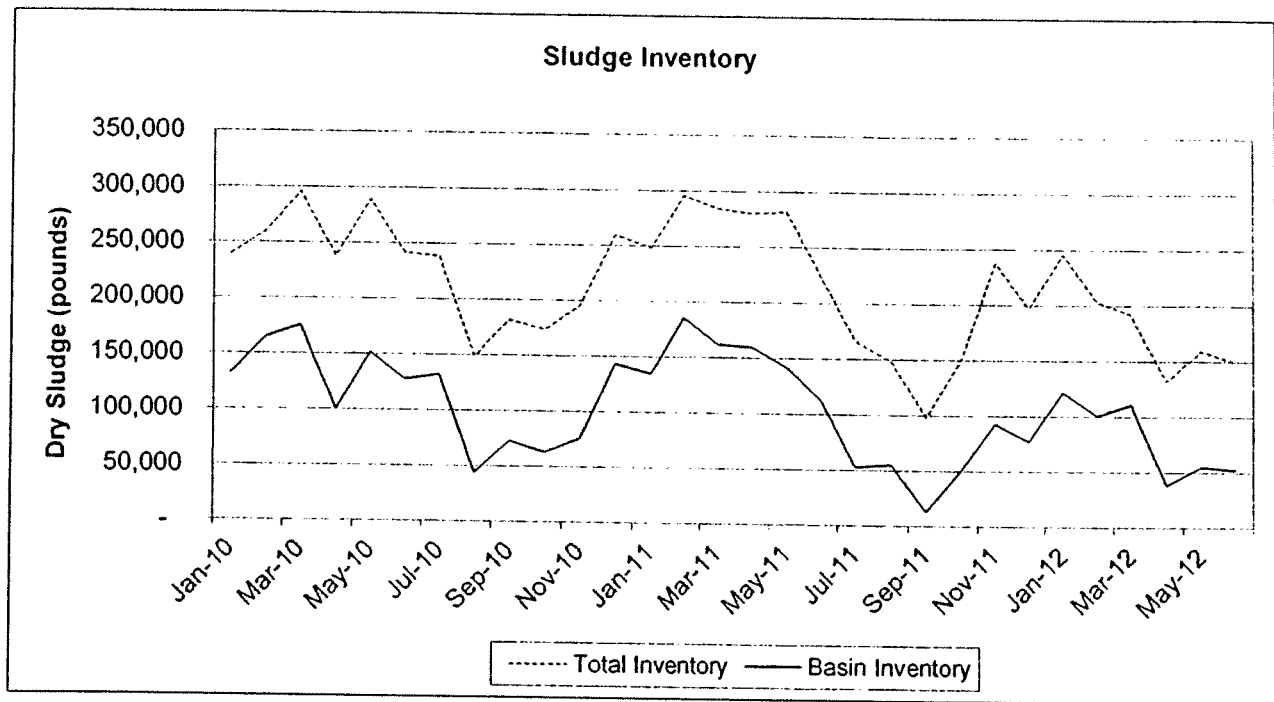


Effluent BOD/TSS
Figure 4

NPDES Limit for TSS and BOD = 30 mg/l

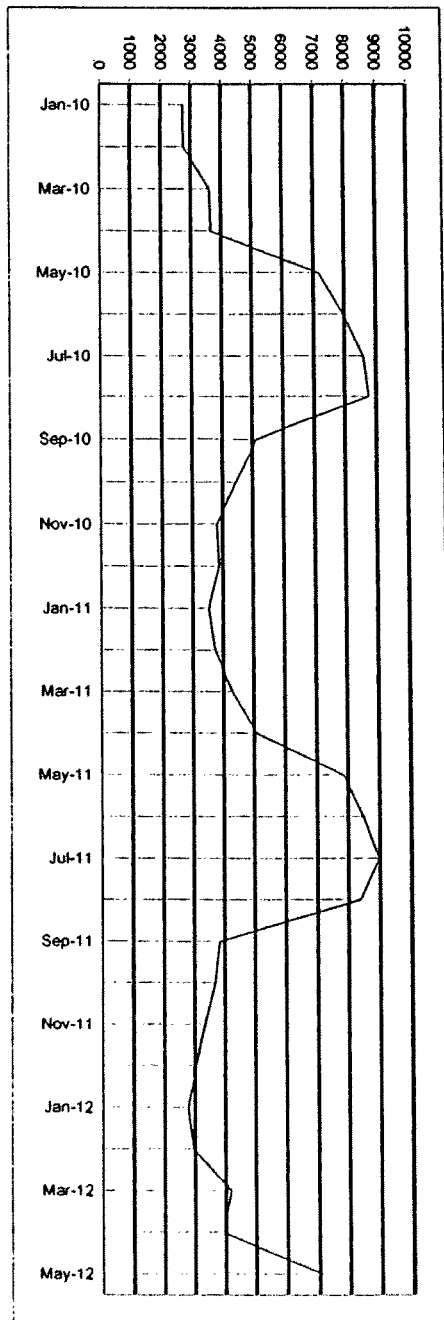


[illegible]

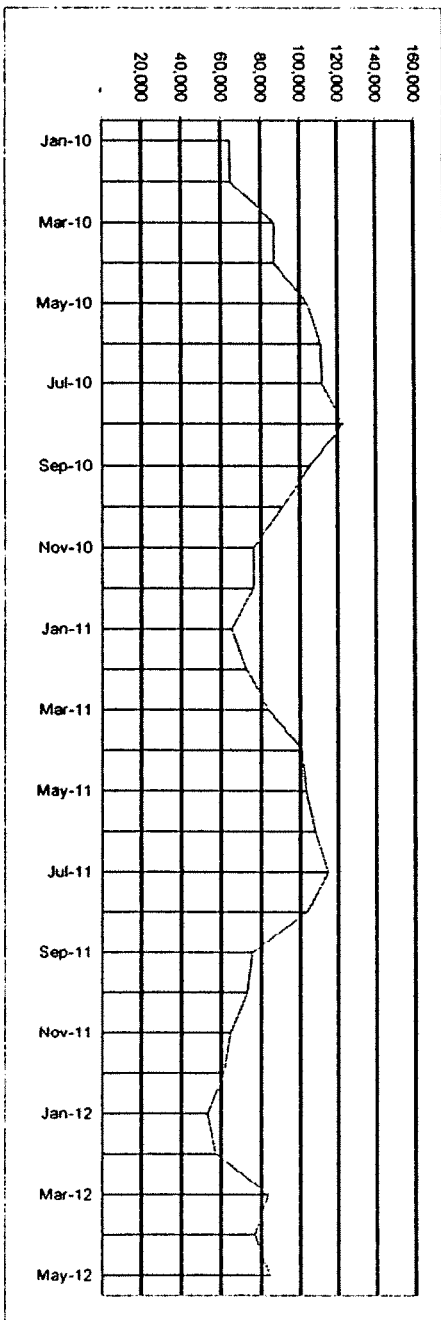


Month	Electric Cost	Kilowatts Used
Jan-10	2747	64,648
Feb-10	2771	64,964
Mar-10	3640	87,123
Apr-10	3679	87,091
May-10	7182	104,323
Jun-10	7977	111,383
Jul-10	8613	112,010
Aug-10	8770	122,995
Sep-10	5151	105,347
Oct-10	4454	91,462
Nov-10	3815	76,006
Dec-10	3880	76,007
Jan-11	3547	65,206
Feb-11	3757	72,752
Mar-11	4309	84,045
Apr-11	5092	101,440
May-11	7876	103,396
Jun-11	8505	108,021
Jul-11	8983	114,906
Aug-11	8382	103,698
Sep-11	3848	75,430
Oct-11	3697	73,005
Nov-11	3345	64,695
Dec-11	3064	61,670
Jan-12	2784	53,291
Feb-12	2962	57,492
Mar-12	4200	83,720
Apr-12	3943	76,650
May-12	7120	84,700

Electric Cost



Kilowatts Used





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

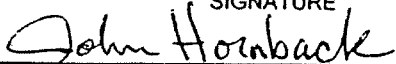
NAME OF FACILITY						LOCATION ADDRESS & CITY								COUNTY/REGION	
Lake of the Ozarks Regional WWTP #1						#3 Anderson Road								Miller/SWRO	
MONTH/YEAR		PERMIT NUMBER				OUTFALL NUMBER		TYPE TREATMENT FACILITY							
Jun-12		MO-0103241				#001		Oxidation Ditch/UV/Sludge Holding-sludge is land applied							
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	198	150	20.8	1.755	7.9	2.0	1		6.0		21	99.0	99.3	
2	7.4			20.3	1.639	7.9				6.9		19.6			
3	7.4			21.1	1.894	7.9				6.6		20.4			
4	7.2			21.5	1.767	7.9				6.0	<20	21			
5	7.3			21.9	1.558	7.9				6.2		21.9			
6	7.1			21.3	1.340	7.9				6.0		21.7			
7	7.3			21.5	1.643	8.0			0.1	6.2		21.5			
8	7.4	205	168	22.1	1.585	8.1	2.0	1		7.1		22.5	99.0	99.4	
9	7.3			20.8	1.584	8.0				6.5		21.3			
10	7.4			22.1	2.037	7.9				5.6		22.3			
11	7.3			21.8	1.781	7.9				5.3	<20	22.4			
12	7.3			21.5	1.800	7.9				6.2		21.4			
13	7.4			21.2	1.547	7.9				5.8		21.4			
14	7.4			21.4	1.694	8.0			0.05	6.1		21.6			
15	7.4	260	218	21.9	1.657	7.9	1.2	1		6.0		21.5	99.5	99.5	
16	7.5			23	2.360	7.9				6.3		22.9			
17	7.5			22.7	2.085	7.9				5.5		23			
18	7.2			22.6	1.899	7.9				5.6	<20	23.5			
19	7.3			23.1	1.924	7.9				5.8		23.4			
20	7.3			22.9	1.927	7.9				6.0		23.7			
21	7.2			22.8	1.772	7.9			0.06	5.9		23.6			
22	7.3	218	206	22.5	1.708	7.9	1.3	1.4		5.6		23.5	99.4	99.3	
23	7.4			23	1.928	7.9				5.4		23.2			
24	7.3			23.6	2.079	7.9				5.9		23.3			
25	7.3			23.6	1.924	7.9				5.7	<20	23.8			
26	7.3			22.6	1.776	7.9				5.8		23.2			
27	7.4			23.5	1.731	7.9				6.4		23.2			
28	7.5			23.1	1.704	7.9			0.04	5.9		23.4			
29	7.5	200	240	23.7	1.739	7.9	1.1	0.8		6.4		23.8	99.5	99.7	
30	7.5			23.8	1.860	7.9				6.2		23.8			
Total					53.697										
Avg		216	196	22	1.790		1.5	1.0	0.1	6.0	<20	22.4	99.3	99.5	
Min	7.1	198	150	20	1.340	7.9	1.1	0.8	0.0	5.3	<20	19.6	99.0	99.3	
Max	7.5	260	240	24	2.360	8.1	2.0	1.4	0.1	7.1	<20	23.8	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	<5.0		
5			
6			
7			
8			
9			
10			
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			
27			
28			
29			
30			
Total			
Avg	< 5.0	0.00	0.00
Min	< 5.0	0.00	0.00
Max	< 5.0	0.00	0.00

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

DATE	SLUDGE DISP. LBS. DRY WEIGHT	#1 Aeration Basin, O-Ditch, Etc.				#2 Aeration Basin, O-Ditch, Etc.				*Weather Conditions		
		MIXED LIQUOR				MIXED LIQUOR				Outside * Ambient Temp ° F	*RAIN Inches	Time
		* DO mg/l	** MLSS mg/l	*Settleability		* DO mg/l	** MLSS mg/l	*Settleability				
				*30 min ml	Temp ° C			*30 min ml	Temp ° C			
1	5,832	2.1	3,560	650	20.5	3.2	3,280	620	20.4	58		7:30
2		3.8	3,490	670	19.4	5.6	2,910	560	19.4	56		7:30
3		2.7	3,460	700	20.3	4.9	2,510	510	20.2	62		7:30
4	8,332	2.0	3,640	620	21.2	4.3	3,310	560	21.1	66		7:30
5	8,825	2.5	3,530	550	22.3	3.7	3,100	590	22	69		7:30
6	12,220	1.3	2,730	420	21.6	1.8	3,290	600	21.4	62		7:30
7	10,862	1.4	3,130	550	21.5	1.8	3,210	600	21.4	62		7:30
8		1.4	3,250	550	22.6	1.8	3,320	600	22.2	62		7:30
9		1.5	2,840	510	21.3	2.6	2,580	470	21.3	61		7:30
10		1.2	2,560	430	22.7	1.9	2,010	350	22.5	70		7:30
11		1.4	2,080	350	22.2	1.5	3,880	750	22.1	73		7:30
12	14,442	1.4	3,210	650	21.4	2.2	2,900	600	21.3	61	0.8	7:30
13		1.4	2,760	580	21.2	2	2,600	590	21.2	60		7:30
14		1.0	3,170	650	21.7	1.2	3,000	720	21.4	62		7:30
15		3.2	3,400	700	21.5	4.5	2,990	670	21.4	69		7:30
16		2.1	3,230	640	23.1	3.8	2,690	520	22.8	72		7:30
17		1.7	3,480	630	23.1	2.9	2,590	440	23	72	0.6	7:30
18		1.9	3,220	620	23.6	3.4	2,810	580	23.5	76		7:30
19		2.6	2,740	520	23.5	3.5	3,220	700	23.4	77		7:30
20		3.8	2,550	430	23.6	4	3,650	740	23.6	77		7:30
21		1.4	3,290	650	23.4	1.4	3,060	580	23.1	72		7:30
22		1.2	3,700	740	23.3	1.7	2,650	490	23	65		7:30
23		2.6	3,720	660	22.9	3.7	3,120	600	22.7	66		7:30
24		1.7	3,100	560	23.2	3.6	2,590	680	23.1	71		7:30
25		2.7	2,650	560	23.9	2.5	3,410	770	23.7	74		7:30
26		2.5	2,850	600	23	2.3	3,420	780	22.9	71		7:30
27		3.9	2,840	590	23	4.5	3,310	750	22.7	69		7:30
28		1.6	3,510	750	23.9	3.1	2,570	540	23.3	71		7:30
29		1.3	3,670	770	23.6	2.2	2,600	510	23.6	73		7:30
30		2.0	3,560	740	23.8	2.8	2,690	590	23.7	73		7:30
												7:30

COMMENTS:

TESTS PERFORMED BY (PRINT) John Hornback	SIGNATURE 	PHONE # (573)365-0455	DATE 7/6/2012
REPORT APPROVED BY (PRINT) Gary Hutchcraft	SIGNATURE 	PHONE # (573)365-0455	DATE 7/6/2012

*Required Daily (Monday - Friday)

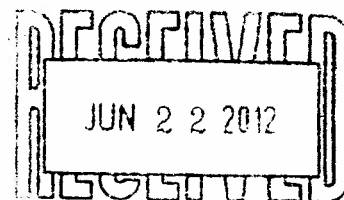
**Required 1/week

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# 1416020
June 13, 2012 through June 15, 2012



MAILED TO MDNR 6/25/12 JPH

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# 1416020

June 13, 2012 through June 15, 2012

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	100%	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 the Graphical Method

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# 1416020
June 13, 2012 through June 15, 2012

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.

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# 1416020

June 13, 2012 through June 15, 2012

2.2. REFERENCE TOXICITY TEST:

Environmental Analysis South performs monthly reference toxicity tests. The most recent reference test was initiated on June 6, 2012 using KCL Lot #41713. Following are the results:

2.2.1. *P. promelas* - 48 hr. Acute Test – $LC_{50} = 0.919$ g/l 95%CI (0.724-1.113 g/l)

EAS %CV = 10.6%

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

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

2.2.2. *C. dubia* - 48 hr. Acute Test – $LC_{50} = 0.486$ g/l 95%CI (0.350-0.622g/l)

EAS %CV = 14.0%

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.

WHOLE EFFLUENT TEST conducted in accordance with US EPA 600/4-90/027

Fifth Edition October 2002

CLIENT NAME: Alliance -Lake of the Ozarks, Outfall 001, 24 hr composite

NPDES NUMBER: MO-0103241

TYPE OF METHOD: multiple dilution, 48 hrs, PP & CD, AEC=100%

DATE & TIME OF COLLECTION: 06/11/12 0900 hrs - 06/12/12 0900 hrs by Gary Hutchcraft

DATE & TIME OF SUBMISSION: 06/13/12 1015 hrs by UPS

Upstream: Bowlin Hollow

Collected: 06/12/12 0905 hrs by Gary Hutchcraft

INITIAL OBSERVATIONS	DATE	TIME	ANALYST	QC LOT	QC EXP VALUE	INT EFFLUENT UC	INT RC
LOG NUMBER / ID NUMBER						1416020	RC4039
pH - SU	06/13/12	1030 hrs	SCS	SB114 (8.8-9.2)	9.13	8.38	7.99
TEMPERATURE °C RECEIVED	06/13/12	1030 hrs	SCS	EAS 106		6	24
SPECIFIC CONDUCTANCE umhos	06/13/12	1030 hrs	SCS	ERA506-0814(452-505)	495	1469	226
HARDNESS - ppm	06/13/12	1030 hrs	SCS	ERA P170-507(107-134)	120	460	80
CHLORINE - ppm	06/13/12	1030 hrs	SCS	tap water	+	<0.04	<0.04
DISSOLVED OXYGEN - ppm	06/13/12	1030 hrs	SCS	cal@840		10.06	9.15
TOTAL ALKALINITY - ppm	06/13/12	1500 hrs	SCS	ERA 203-506(105-124)	114.0	418	68.1
INITIAL AMMONIA - ppm	06/14/12	1500 hrs	JPC	EAS #2446 (8-12)	9.81	0.485	<0.05
TOTAL DISSOLVED SOLIDS -ppm							
0 HOUR OBSERVATIONS							
pH - SU	DATE	TIME	ANALYST	QC LOT	QC EXP VALUE	RC	UC
TEMPERATURE °C	06/13/12	1100 hrs	SCS	SB114 (8.8-9.2)	9.13	7.65	7.88
SPECIFIC CONDUCTANCE umhos	06/13/12	1100 hrs	SCS	EAS 106		23.8	24.2
DISSOLVED OXYGEN - ppm	06/13/12	1100 hrs	SCS	ERA506-0814(452-505)	495	254	577
	06/13/12	1100 hrs	SCS	cal@840		9.7	9.5

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

Alliance -Lake of the Ozarks, Outfall 001, 24 hr composite EAS LOG# 1416020

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

Date Test Began: June 13, 2012 Time Test Began: 1100 hrs

Date Test Finished: June 8, 2012 Time Test Finished: 1100 hrs

HATCH NUMBER: 8392 C-K

AGE: 8 days

P. promelas (PP)

PERIOD	RC	UC	100%	50%	25%	12.50%	6.25%	X% AEC
0 HR-PP	ALIVE	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	10,10	10,10	

HATCH NUMBER: 2511 C-K

AGE: <24 hours

Ceriodaphnia dubia (CD)

PERIOD	RC	UC	100%	50%	25%	12.50%	6.25%	X% AEC
0 HR-CD	ALIVE	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	

Date: 06/18/2012

Approved by: *[Signature]*

all 12
100%
24 hr com.

ENVIRONMENTAL ANALYSIS SOUTH, INC.

4000 East Jackson Blvd

Jackson, MO 63755

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



117715

WHOLE EFFLUENT TOXICITY TESTING CHAIN OF CUSTODY

CLIENT: Alliance - Lake Ozarks (Lake of the Ozark Region)

NPDES PERMIT NUMBER: MO-0103241 WWTP #1

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

COLLECTION DATA: START DATE: 6/11/12 START TIME: 9:00 AM

FINISH DATE: 6/12/12 FINISH TIME: 9:00 AM

UPSTREAM NAME: Bowlin Hollow (LEGAL NAME) (GRAB SAMPLE)

COLLECTION DATA: DATE: 6/12/12 TIME: 9:05 AM

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

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 6/13/12

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: 6/12/12 TIME: 9:45

LABORATORY USE ONLY

EFFLUENT

LOG NUMBER: 1416020

RECEIVED TEMPERATURE: 6 °C THERMOMETER ASSIGNED NUMBER: _____

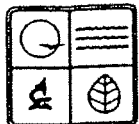
HEADSPACE: YES or NO SAMPLES ICED or DELIVERED SAME DAY AS TEST

UPSTREAM LOG NUMBER: 1416020-A

RECEIVED TEMPERATURE: 6 °C THERMOMETER ASSIGNED NUMBER: _____

HEADSPACE: YES or NO SAMPLES ICED or DELIVERED SAME DAY AS TEST

RECEIVED BY: Amulgan DATE: 6/13/12 TIME: 1015 UP



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 Alliance-Lake of the Ozarks		DATE & TIME COLLECTED EFFLUENT <u>06/11/12 0900-06/12/12 0900</u> UPSTREAM <u>06/12/12 0905</u>	
PERMIT NUMBER MO-0103241		PERMIT OUTFALL NUMBER Outfall # 001	
COLLECTOR'S NAME Gary Hutchcraft			
RECEIVING STREAM COLLECTION SITE AND DESCRIPTION Bowlin Hollow			
PERMIT ALLOWABLE EFFLUENT CONCENTRATION (AEC) 100%		EFFLUENT SAMPLE TYPE (CHECK ONE) ☒ 24HR COMPOSITE ☐ GRAB ☐ OTHER _____	
SAMPLE NUMBER EFFLUENT <u>1416020</u> UPSTREAM <u>1416020A</u>		UPSTREAM SAMPLE TYPE (CHECK ONE) ☐ 24HR COMPOSITE ☒ GRAB ☐ OTHER _____	
PERMITTED EFFLUENT DAILY MAXIMUM LIMITATION FOR CHLORINE _____ mg/L		PERMITTED EFFLUENT DAILY MAXIMUM LIMITATION FOR 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-0103241		TEST DURATION 48 hour	
DATE OF LAST REFERENCE TOXICANT TESTING June 6, 2012		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 06/13/12 1015 hrs by UPS		TEST START DATE AND TIME 06/13/12 1100 hrs	TEST END DATE AND TIME 06/15/12 1100 hrs
SAMPLE DECHLORINATED PRIOR TO ANALYSIS? ☐ YES ☒ NO EFFLUENT _____ UPSTREAM _____		TEST ORGANISM #1 AND AGE Pimephales promelas 8 days	TEST ORGANISM #2 AND AGE Ceriodaphnia dubia < 24 hours
SAMPLE FILTERED ¹ PRIOR TO ANALYSIS? ☐ YES ☒ NO EFFLUENT _____ UPSTREAM _____		90% OR GREATER SURVIVAL IN SYNTHETIC CONTROL? ☒ YES ☐ NO	DILUTION WATER USED TO ACHIEVE AEC upstream 1416020A
FILTER MESH SIEVE SIZE ² None		EFFLUENT ORGANISM #1 % MORTALITY AT AEC LC50>100% Effluent	EFFLUENT ORGANISM #2 % MORTALITY AT AEC LC50>100% Effluent
SAMPLE AERATED DURING TESTING? ☐ YES ☒ NO		UPSTREAM ORGANISM #1 % MORTALITY 0 %	UPSTREAM ORGANISM #2 % MORTALITY 0 %
pH ADJUSTED? ☐ YES ☒ NO EFFLUENT _____ UPSTREAM _____		TEST RESULT AT AEC FOR ORGANISM #1 ☒ PASS ☐ FAIL	TEST RESULT AT AEC FOR ORGANISM #2 ☒ PASS ☐ FAIL

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	06/13/12 1030 hrs
pH Standard Units	8.38	SM18 4500-H B	06/13/12 1030 hrs
Conductance µMols	1469	SM18 2510B	06/13/12 1030 hrs
Dissolved Oxygen mg/L	10.06	SM18 4500-O G	06/13/12 1030 hrs
Total Residual Chlorine mg/L	<0.04	SM18 4500-CI G	06/13/12 1030 hrs
Unionized Ammonia mg/L	0.485x0.12=0.058	SM18 4500-NH3 F @ 25 degree C	06/14/12 1500 hrs
*Total Alkalinity mg/L	418	SM18 2320B	06/13/12 1500 hrs
*Total Hardness mg/L	460	SM18 2340 C	06/13/12 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 SAMPLE³

PARAMETER	RESULT	METHOD	WHEN ANALYZED
Temperature °C	6	SM18 2550B stored at 4 degree C until test setup	06/13/12 1030 hrs
pH Standard Units	8.30	SM18 4500-H B	06/13/12 1030 hrs
Conductance µMols	587	SM18 2510B	06/13/12 1030 hrs
Dissolved Oxygen mg/L	8.67	SM18 4500-O G	06/13/12 1030 hrs
Total Residual Chlorine mg/L	<0.04	SM18 4500-Cl G	06/13/12 1030 hrs
Unionized Ammonia mg/L	<0.05x0.10<0.010	SM18 4500-NH3 F @ 25 degree C	06/14/12 1500 hrs
*Total Alkalinity mg/L	352	SM18 2320B	06/13/12 1500 hrs
*Total Hardness mg/L	380	SM18 2340 C	06/13/12 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

³ Where no upstream control is available, enter results from laboratory or synthetic control.

