OSAGE BEACH / LAKE OZARK JOINT SEWER BOARD MEETING AGENDA JANUARY 21, 2020 @ 4:00 p.m.

LAKE OZARK CITY HALL

1. CALL TO ORDER

2. ROLL CALL

Mayor, Osage Beach, John Olivarri Mayor, Lake Ozark, Gerry Murawski City Administrator, Osage Beach, Jeana Woods City Administrator, Lake Ozark, Dave Van Dee Alderman, Osage Beach, Greg Massey Alderman, Lake Ozark, Judy Neels Public Works Director, Lake Ozark, Matt Michalik Resident Member, Mr. Gary Hamner

3. MINUTES	Page Numbers
Regular Meeting: December 17, 2019	3-4
4. REPORTS	
Bill List Revenue Budget Analysis Expenditure Budget Analysis Income & Expense Summary	5-20 21 23 25
December Alliance Report of Operations	27-43
Approval of Flow Charts December 2019	

5. OLD BUSINESS

A. Board Representative update

6. NEW BUSINESS

A.	Discussion and possible action regarding approval of the Inventory list	44-50
B.	Discussion and possible action regarding the Emergency Response Plan	51-74
C.	Discussion of the Annual flow charts	75-77

7. ADDITIONAL DISCUSSION ITEMS

8. ADJOURNMENT

THE NEXT MEETING WILL BE FEBRUARY 18, 2020 4:00 PM @ LAKE OZARK CITY HALL

LAKE OZARK-OSAGE BEACH JOINT SEWER BOARD

Meeting Minutes - December 17, 2019

CALL TO ORDER:

Mayor John Olivarri called the meeting to order at 4:00 pm on Tuesday, December 17, 2019 at Lake Ozark City Hall

ROLL CALL:

Mayor, Osage Beach, John Olivarri- Present
Mayor, Lake Ozark, Gerry Murawski - Present
City Administrator Osage Beach, Jeana Woods - Absent
City Administrator Lake Ozark, Dave Van Dee - Absentt
Alderman Osage Beach, Greg Massey - Present
Alderman Lake Ozark, Judy Neels- Present
Public Works Director Lake Ozark, Matt Michalik - Present
Resident Member, Mr. Gary Hamner - Present

MINUTES:

Public Works Director Michalik to approve the meeting minutes of November 19, 2019 his motion was seconded by Alderman Neels, and passed unanimously.

REPORTS:

The November Bill list and Revenue Budget, Expenditure Budget Analysis, Income & Expense Summary and Check Registers and Bank Statements were reviewed. A Motion was made by Resident Member Hamner to approve the documents, and pay the bills. His motion was seconded by Alderman Massey, and was passed unanimously.

Alliance Report of Operations: The average daily incoming flow for November was 1.264 mgd. We had 3.5 inches of precipitation measured at the WWTP.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD of 2.0 mg/l and TSS of 2.4 mg/l respectively for November, which represents a 97.8% or better removal.

The MLSS average for both aeration basins was 4,415 mg/l. The total dry weight sludge inventory for November totaled 230,968 pounds. There were 29 tanker loads or 107,300 gallons of bio solids land applied in November. There were 15 tanker loads or 36,000 gallons of septage received for the month.

APPROVAL OF FLOW CHART

Motion was made by Public Works Director Michalik to approve the Flow Chart for November. His motion was seconded by Alderman Neels. Unanimous approval, motion passed.

OLD BUSINESS:

- A. Public Works Director Michalik stated there were no updates at this time
- **B.** Gary Hutchcraft advised they were able to get the seal for the pump so they will be able to fix it They will not have to replace the pump now.
- C. Gary Hutchcraft advised Lumix needs an extension from December 31, 2019 to January 31, 2020. After a brief discussion by the board, the board was ok with the extension on the completion date with no penalties and will pay once it's completed. A motion to extend the completion date to January 31, 2020 and defer it to 2020 was made by Public Works Director Michalik, his motion was seconded by Alderman Neels. Unanimous approval, motion passed.

NEW BUSINESS:

ADDITIONAL	DISCUSSION	ITEMS:	None at this time.

ADJOURNMENT:

With no further business to discuss the meeting ac	ljourned at 4:12 pm.
Approved on:	
Mayor, John Olivarri	City Collector, Trisha Kane

JOINT SEWER BOARD BILL LIST JANUARY 21, 2020

OPERATII OPERATII EQUIPME EQUIPME	\$ \$ \$	171.36 39,239.10 2,023.00 930.00			
			TOTAL	\$	42,363.46
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			TOTAL	\$	174.20
			TOTAL	- P	171.36
OPERATIN Account 4000 4020 4020 4020 4020 4020 4020 4170 4175 4175 4176	IG FUND I	Paid To: Equipment Replacement Fund Controlled Heating & Cooling Jani King JCI Industries, Inc. JCI Industries, Inc. Menards Menards Alliance Water Resources, Inc. Ameren MO Ameren MO AT&T Republic	Description: Payment into ER Fund Admin/Lab Furnace Repair January Crane/Hoist Inspection Lift Station Pump Tarp GFI/Wallplate January 11673321 98041275 Janaury Janaury	*****	Amount: 5,967.00 1,135.72 195.00 250.00 2,450.00 19.98 27.98 25,465.00 65.67 3,416.27 92.39 154.09
			TOTAL	\$	39,239.10
Account 4000 4000 4000	Check 1042 1042 1042	CEMENT FUND BILLS PAID PRICE Paid To: USA Bluebook USA Bluebook USA Bluebook USA Bluebook	Description: Replace Portable DO probe Replace Ammonia Meter Credit for freight TOTAL	\$ \$ \$	Amount: 850.00 1,198.00 (25.00) 2,023.00
EGOIFMEN	TREPLAC	SEMENT LOND RIFTS TO RE DAT	D:		
Account 4000	Check 1043	Paid To: Catalyst Electric	Description: Final Parking Lot Lights	\$ \$ \$	Amount: 930 00 -
			TOTAL	\$	930.00

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

Thank you for your business.

Date	Invoice
12/27/2019	91226081217

\$1,135,72

Bill To Celebrating 36 Years Joint Sewer Board 1983 - 2019 P.O. Box 1985 Lake Ozark, MO 65049 Terms P.O. No. Project Due on receipt Description Qty Rate Amount BLOWER MOTR THEAT PUMP:0131M00272S BLOW MTR THP 1,027.58 1,027.58 MISCELLANEOUS MINOR REPAIR (057825) 108.14 108.14 12-26-19 JIM :NOT COMING ON: THE FURNACE WAS SHOWING ERROR CODE B3 & B4 AND THE BLOWER WOULD NOT RUN. INSTALLED A TEMPORARY MOTOR AND WILL ORDER THE CORRECT MOTOR. THE HEAT PUMP HAD A 23' TEMPERATURE RISE WITH THE TEMPORARY MOTOR AND THE FURNACE WILL NOT RUN WITHOUT THE CORRECT MOTOR PLUGGED INTO IT.12-27-19 and ANTHONY JIM INSTALLED THE CORRECT ECM BLOWER MOTOR. ALL AMP DRAWS WERE WITHIN SPECS AND THE HEAT PUMP HAD A REPAIR ADMIN/LIBBLDG FURNACE 24" TEMPERATURE RISE. THE GAS FURNACE HAD A 40" TEMPERATURE RISE. THE SYSTEM IS OPERATING PROPERLY AT THIS TIME. GL Acct#:_ 4021

Total

REBILL INVOICE

Remit To:

JCI Industries, Inc. PO Box 411114 Kansas City, MO 64141 816-525-3020



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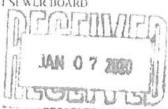
JEFFERSON CITY

Bill To:

LAKE OZARK/OSAGI BLACILIONI SEWER BOARD

PO DOX 1985

LAKE OZARK, MO 65049



Ship lo:

ALLIANCE WATER RESOURCES

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1 AKT OZARK, MO 65049

Customer II): 400263

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Merchandise cannot be returned without permission. Claims for shortligos 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%.

JCI Industries Inc. acceptance of buyer's order is conditioned upon buyer's assent to the terms and conditions set forth on http://www.cund.com/tandc. Any additional or contrary terms are hereby rejected.

Alliance Water Resources, Inc.

Professional Water and Wastewater Operations 266 South Keene Street Columbia, Missouri 65201 (673) 874-6080 Fax (573) 443-0833

SCLD TO

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

INVOICE

Invoice No:

8689

Invoice Date:

2-Jan-20

Customer No:

20220

Terms:

30 days

EFERENCE	DESCRIPTION	AMOUNT
	Wastewater Plant operating service for month of Jan-2020	\$25,465.00
	TOTAL DUE	\$25,465.00



December 12, 2019

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

Board of Directors:

As per the terms and conditions of the Alliance O&M Agreement dated December 12, 2018, the base fee is adjusted on January 1st each year to reflect the change in the Consumer Price Index and the other terms of the agreement.

The Agreement specifies the use of the Department of Labor's CPI- All Urban Consumers Midwest – Size Class D, not seasonally adjusted (Series ID: CUURD200SA0). The most recent CPI data used to calculate the 2018 base contract fee was September 2017. Accordingly, the 2019 base contract fee will use the 12 month period from November 2018 through November 2019.

The appropriate indices and resulting contract adjustment is calculated as follows:

CPI November 2018 234,292 CPI November 2019 238,850

> CPI Increase - (238.850 - 234.292) / 234.292 = +2.0%

Per contract, the base fee is adjusted annually at the CPI percentage increase/decrease annually. The CPI adjustment for 2020 is 2.0%, therefore the base rate is adjusted at + 2.0% beginning January 1, 2020.

Adjusted O&M Fee:

Previous Monthly Fee = $$24,996.00 \times 2.0$ New Monthly Fee = \$25,465.00

The invoice for January 2020 will reflect the new base fee of \$25,465.00 per month.

On behalf of Gary Hutchcraft, and our entire staff at Alliance Water Resources, thank you for letting us be of service to your communities.

Sincerely,

Alliance Water Resources

Gary Johnson Divisional Manager

cc: Board of Directors Tony Sneed Gary Hutchcraft

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To: 2019

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More Formatting Options

Data extracted on: December 12, 2019 (2:46:19 PM)

CPI for All Urban Consumers (CPI-U)

Series Id:

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Not Sessonally Adjusted

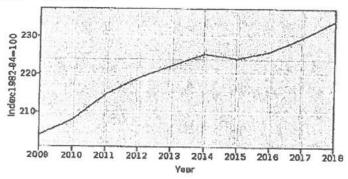
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All items

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2012	216.368	216.855	218.975	219.405	219,145	219.017	218.956	220.462	221 125	220 275	210.602	250,073	219.793	213.4/0	210.016
2013	219,282	221.599	222,121	221.931	223,049	223.775	772 902	223 046	333 353	222 171	219,963	219.033	219,100	218.294	219.906
2014	222.247	223,493	225,485	226.214	226.565	227 500	226 007	223.040	775 012	222.1/1	221./18	221.194	222.170	221.960	222.381
2015	221.545	222,301	223.550	223.797	224 732	225 046	201337	220,307	220.913	225.793	229,396	222,821	225.425	225.265	225.585
2016	223,301	223 196	224 621	225.609	226 476	227,570	222,023	223.630	245.189	225.050	224.009	222,722	224,210	223,645	224.775
2017	228.279	228.633	228 824	220,682	220.770	220,700	220,760	227.097	227.636	227,358	226.673	226,794	226.115	225.173	227.057
2018	232.028	232 512	223.021	229,682	235 005	223.760	229.620	230,443	Z31.030	230.660	231.084	230.548	229.874	229.151	230.598
2018	737 977	725 414	225 202	233,913	233.065	255,455	235.346	235.276	235,524	235.680	234.292	233,458	234,290	233.651	234.929
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DATE (MAUDDAYYY) 12/9/2019

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								PERSONAL & ADV INJURY	\$1,000.0	00	
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Board President, Joint Sewer Board of Lake Ozark & Osage Beach						ILD ANY OF THE EXPIRATION	DATE THE	ESCRIBED POLICIES BE CAI REOF, NOTICE WILL BE Y PROVISIONS.	NCELLE DELN	D BEFORE /ERED IN	
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	Attin: Karri Bell 1000 City Parkway Osage Beach MO 65065				AUTHORIZED REPRESENTATIVE						

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\$65.67

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Account Number 5580005920

Customer Name Service Address

ALLIANCE WATER RESOURCES INC

3 ANDERSON RD

LAKE DZARK, MO 65049

Carrent Detail for Statement 01/10/2020

Total Electric Charges

Total-Amount Due

\$65.67

Due Date

02/03/2020

Amount After Due Date

\$66.66

Previous Statement

\$163.30

Total Payments

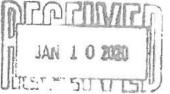
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Electric U	Jsage	in Kito	watt H	ours (k	Wh)									Electric Usage Summary (kWh)
J	AN 18°F	FEB 29°F	MAR 28°F	APR 49°F	MAY 60°F Aver	JUN 68°F age Monti	JUL 75°F Diy Temper	AUG 78°F	SEP 76°F	0C1 74°F	NOV 49°F	DEC 41°F	JAN 38°F	So far this year, you're using 3.8% more than I year. 2019 520 kWh Usage for Jan 7019 & 2020

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Update your account information so we can contact you when crews are working in your neighborhood. Fill out the slip and mail it in or update your online account. Don't have an online account? Sign up today at AmerenMissouri.com.



GL Acct#:

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Check if you have address changes on back.

Amount Due Due Date \$65.87 February 03, 2020 Delinquent Amount After Due Date **Account Number** \$86.66 5580005920

Amount Enclosed \$

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

AMEREN MISSOURI PO BOX 88068 CHICAGO IL 60680-1068

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Questions? Contact Ameron Missouri at 1 877.426.3736 or visit Ameron Missouri com

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Addross City, State, Zip ... Phone Number

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Account Number 4580095832

Customer Name

ALLIANCE WATER RESOURCES INC.

Service Address

3 ANDERSON RD, -

LAKE OZARK, MO 65049

Current Detail for Statement 01/10/2020

Total Electric Charges

\$3,416.27

Total Amount Due

\$3,416,27

AMOUNT DUE

\$3,416.27

Due Date

02/03/2020

Amount After Due Date

\$3,467.51

Previous Statement

\$3,227.15

Total Payments

\$3,227.15

Payment Received. Thank You.

Rectric Usage History Electric Usage in Kilowatt Hours (kWh) Electric Usage Summary (kWh) So far this year, you're using 4.7% IBSS than last 125000 year. 100000 75000 2019 50000 68,320 kWh 25000 0 2020 OCT NOV DEC JAN 38°F 29°F 49°F 60°F 68°F 75°F 41°F 28°F 78°F 76°F 49°F 38°F 74°F 65,120 kWh Avarage Monthly Temperature (*F) Usage for Jan 2019 & 2020

Keeping You Informed.

Update your account information so we can contact you when crews are working in your neighborhood. Full part the slip and mail it in

or update your o online account? Sign up today at AmerenWissouri.com

> GL Acct#: Signature

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>> Seanext page for service details.

Keep this portion for your records.

Please return this portion with your payment

MISSOURI

Check if you have address changes on back.

Amount Due Due Date \$3,416.27 February 03, 2020 Delinquent Amount After Due Date **Account Number** \$3,487.51 4580005832

Amount Enclosed \$

201 SETZED 2000 BTG2599 TASOOC

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

AMEREN MISSOURI PO BOX 88068 CHICAGO IL 60680-1068



- ≈ Pay by phone 1.866.268.3729
- # Pay by mail: PO Box 88068, Chicago, IL 60680 1068
- # Pay online or manage your account: Ame:enMissouri.com
- Customer Service: 1.877.426,3736

FOCUSED ENERGY. For life.

\$1,138.99

\$95.07

\$-88.56

\$13.02

Electric Service Details Service from 12/05/2019 - 01/08/2020 (34 days)

Electric Meter Rea	ជ									
METER NUMBER	SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING	READIN DIFFERE	200 S C C C C C C C C C C C C C C C C C C	UL TIPLIER	USAGE
11673321	12/05 - 01/08	34	Total kWh	Actual	57397.0000	56990.0000	407	.0000	160.0000	85120.0000
11673321	12/05 - 01/08	34	Pesk kW	Actual	0.6400	0.0000	0.	.8400	160.0000	102,4000
Usage Summary	2.00			Maritim Maritim Commission	Account of the Control of the Contro	and delivery to the second		***************************************	**************************************	*
Title No	LIAN				05105 5555					
Total					65120.0000	Peak kW	- 10			102.4000
	Billing Demand				102.4000	October Wir		W		216.5000
	r Base Demand				102.4000	Base kWh Retio				1.0000
Base	kWh (HUD)				65120.0000 Sessonal kWh (HUD)					0.0000
Rate 3M Large Ger	neral Service									
DESCA	IPTION				USAGE	UNIT			RATE	CHARGE
Seaso	nal Energy Charg	Ð			0.00	kWh	@	\$ 0.0389	0000	\$0.00
Dernar	nd Charge				102.40	kW	6	\$ 2.0000	0000	\$204.80
Base E	nergy Charge ! H	ours Used			15,360.00	kWh	@	\$ 0.0665	0000	\$1,021.44
Base &	nergy Charge! H	ours Used			20,480.00	kWh	@	\$ 0.0494	0000	\$1,011.71

29,280.00

65,120.00

65,120.00

65,120.00

65,120.00

kWh

k₩h

kWh

kWh

kWh

0 \$ 0 00492400 \$320.65 0 \$.0.00462000 \$-300.85 **Total Service Amount** \$3,416.27 **Total Electric Charges** \$3,416.27

\$ 0.03890000

\$ 0.00136000

\$ 0.00020000

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

Base Energy Charge ! Hours Used

Energy Efficiency Program Charge

Energy Efficiency Investment Charge

Customer Chargo

Fuel Adjustment Charge

Federal Tax Rate Reduction

Page 2 of 4

Address Changes or Corrections

Name Address City, State, Zip Phone Number

AmerenMissouri.com/WaysToPay



ONLINE E CHECK



6

8

0

PHONE 866.268.3729

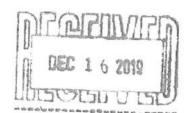


IN PERSON FIND A PAY STATION AT AMERENMISSOURI COM. PAYSTATION

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Remit To: P.O. Box 9004 Gumee, IL 60031-9004

TEL: (847) 689-3000 FAX: (847) 689-3001 TOLL FREE: 1-800-493-9876 F.E.I.N.: 52-2418852



BILL TO: 1053309

1669 1 MB 0.428 E0107X ID125 05598811069 S2 P6975958 0001:0002

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

INVOICE NO.	PAGE NO.		
083648	1 of 1		
CUSTOMER NO.	DATE		
1053309	12/04/19		

View online at: http://usabluebook.bilitrust.com Web Enrollment Token: GVZ KZT BWR

SHIP TO:

JOINT SEWER BOARD LAKE OZARK-OSAGE BEACH 3 ANDERSON RD LAKE OZARK MO 65049 USA

Ordered by: 0001 GARY HUTCHCRAFT Allandan OOO4 MADVILLIAMIA

		. UUUI GARI H	_				Attention: 0001 G	SARY HL	JTCHCRAFT		
CUSTOMER P.O. N	_	SHIP DATE	SLP	TERMS	CALLED BY	TAX CODE	SALES ORDER NO.	W/H	FREIGHT	500 B	SHIP VIA
VERBAL GARY		12/04/19	CCL	NET 30	٨	MOEXEMPT	771568	01	FXD/PPD		UPS
USA STOCK NO.	S500+ ORDERS REC FREE UPS		ORDERE	D SHIPPE	D BACKORDER	U/M	PRICE	PER	EXTENSION		
47.1		ROUND FREIG			1	1	0	EA	0.00		0.00
55727	Hack Pr	n IntelliCal Rugg robe 5 M Cable FREE UPS GRO PRDERS OVER	ged LDO LDO10105 OUND SHIP	PING ON	1	1	0	EA	850.00		850.00
					REPL	LACEME	NT PORT	ABLE	DO pros	Ε	
				GL Acc	#:	EVR					
				Signatu	·c:	ay to	tulilia	1			
				Date:	12-1	10/1	9	1			
THANK YOU	l for yo	our business!	Prop								

1.5% MONTHLY FINANCE CHARGE ON AMOUNTS 30 DAYS PAST DUE Discounts Apply to Merchandise Only

MERCHANDISE	MISCELLANEOUS	DISCOUNT	TAX	FREIGHT	TOTAL
850.00	0.00	0.00	0.00	0.00	STREET, SQUARE, SQUARE,
		0.00	0.00	0.00	850.00

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

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

Get the Best Treatment'

****IMPORTANT****

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

INVOICE NO.	CUSTOMER NO.	DATE	TOTAL
083648	1053309	12/04/19	850.00

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

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

Remit To: P.O. Box 9004 Gurnee, IL 60031-9004

TEL: (847) 889-3000 FAX: (847) 689-3001 TOLL FREE: 1-800-493-9876 F.E.I.N.: 52-2418852

BILL TO: 1053309

1669 1 MB 0.426 E0107 I0126 D5614034681 S2 P6975959 0002:0002

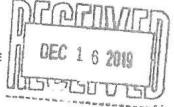
JOINT SEWER BOARD LAKE OZARK-OSAGE BEACH PO BOX 1985 LAKE OZARK MO 65049-1985 INVOICE

INVOICE NO.	PAGE NO.
086852	1 of 1
CUSTOMER NO.	DATE
1053309	12/09/19

View online at: http://usabluebook.billtrust.com Web Enrollment Token: **GVZ KZT BWR**

SHIP TO: 1

JOINT SEWER BOARD LAKE OZARK-OSAGE BEACH 3 ANDERSON RD LAKE OZARK MO 65049 USA



Ordered by: 0001 GARY HUTCHCRAFT

Attention: GARY HUTCHCRAFT CUSTOMER P.O. NO. SHIP DATE SLP TERMS TAX CODE SALES ORDER NO. | WIH PREIGHT SHIP VIA VERBAL GARY 12/09/19 TMS NET 30 MOEXEMPT 764418 01 FXD/PPD UPS USA STOCK NO. DESCRIPTION ORDERED SHIPPED BACKORDER MIN PRICE PER EXTENSION 44245 Hach sensiON+ MM340 Benchtop 0 EA 1,173.00 EA 1,173.00 Meter Only LPV2200.97.0002 SDS VISIT WWW.USABLUEBOOK COM REPLACEMENT AMMONIA

GL Acct#:

Date:

MERCHANDISE | MISCELLANEOUS | TOTAL 1,173.00 0.00 0.00 0 00 25.00 1,198.00

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

Please Detach and Raturn Bottom Portion to Ensure Proper Credit to Your Account

THANK YOU for your business!

Discounts Apply to Merchandise Only

1.5% MONTHLY FINANCE CHARGE ON AMOUNTS 30 DAYS PAST DUE

****IMPORTANT****

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

INVOICE NO.	CUSTOMER NO.	DATE	TOTAL
086852	1053309	12/09/19	1,198.00

JOINT SEWER BOARD LAKE OZARK-OSAGE BEACH PO BOX 1985 LAKE OZARK MO 65049-1985 REMITTANCE ADDRESS lelles Blood Lence Union Melecular Uniol Constant Historical selected **USABlueBook** P.O. Box 9004 Gurnee, IL 60031-9004

USABlueBook

Get the Best Treatment"

1053309

Remit To: P.O. Box 9004 Gurneo, IL 60031-9004 TEL: (847) 689-3000 FAX: (847) 689-3001 TOLL FREE: 1-800-493-9876 F.E.I.N.: 52-2418862 **CREDIT MEMO**

INVOICE NO.	PAGE NO.		
092967	1 of 1		
CUSTOMER NO.	DATE		
1053309	12/16/19		

View online at: http://usabluebook.blittrust.com Web Enrollment Token: **GVZ KZT BWR**

SHIP TO:

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

BILL TO:

JOINT SEWER BOARD LAKE **OZARK-OSAGE BEACH** 3 ANDERSON RD LAKE OZARK MO 65049 USA

USTOMER PO. NO.	SHIP DATE	SLP	TERMS	124 - 1	TAX	CODE	SALES ORDER NO.	WITH	PREIGHT,	2500	SHIP VIA
VERBAL GARY	12/16/19	TMS	1%/10 NET	30	MOE	KEMPT	C97775	01	PREPAID		refraint along a section of the section of
SA-STOCK NO.		SCRIPTION		ORDE	RED	SHIPPED	BACKORDER	U/M/s	PRICE	PER	EXTENSION
	CREDIT FOR FR ON INVOICE # 0 CREDIT HAS BE TOWARDS INVO	86852 EN APPLIE	ED .				Physical Contest imme				
		(CREDI								
	GL Acct#:	5	1ROL								
	Signature:	Dar	yetu	lik	ud	1/8	T				
	Date:/	2/1	1/19	-					1		
			1		1						

1.6% MONTHLY FINANCE CHARGE ON AMOUNTS 30 DAYS PAST DUE Discounts Apply to Merchandise Only

MERCHANDISE | MISCELLANEOUS | DISCOUNT | TAX FREIGHT TOTAL 0.00 0.00 0.00 0.00 -25.00 -25.00

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

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

Got the Best Treatment

****IMPORTANT****

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

INVOICE NO.	CUSTOMER NO.	DATE	TOTAL
092967	1053309	12/16/19	-25.00
			The state of the s

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

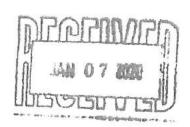
REMITTANCE ADDRESS Interest to a section of the section **USABlueBook** PO Box 9004 Gurnee, IL 60031-9004



Invoice

Date	Invoice #
1/6/2020	10849

Bill To	
M. P., I and the second	
Joint Sewer Board	
#3 Anderson Road	
Lake Ozark, MO	
	the same of the sa



		P.O. No.	Terms	Project
			Net 30 Lig	thung repair
Quantity	Description		Amount	Rate
	Invoice for completed work according to Estimate # Bid is for relocation of lighting at Alliance Water in 1 includes labor and material to complete the following - Remove 2 light heads that don't have power, relocate - Add light by pole by equipment room, use existing particles and light by lower building down the hill, re-route inside - Set junction box outside to interrupt current 480v particles and timer for outside light - Test out installation Does not include: - Any other scope of work - Any other troubleshooting or repair of existing wirk - FINAL INJOICE ON F	ake Ozark, MO. Bid scope of work to other poles nower and bracket power to 120/240v panel ower to pole.	93000	930.4
hank you for y	our business!		Total	\$930.0
			Payments/Credits	\$ \$0.0
			Balance Due	\$930.0

Phone #	Fax#	E-mail	Web Site
573-552-8488	573-552-8248	office Deathly stelectric, com	www.catulystelectric.com

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

12/31/2019

Account			12/01/2013				
Account		2017 Actual	2018 Actual	2019 Budget	2019 Actual as of 12/31/2019	2019 December Revenue	Percent YTD
3020 3010	Osage Beach Lake Ozark	478,614.41 71,385.58	480,784.67 69,215.30	478,500.00 71,500.00	475,091.53 74,908.46	39,512.22	99%
3030 3100	Misc. Interest	0.00	1,485.00	0.00	0.00	6,321.11 0.00	105%
3060	Waste Haulers' Fee	781.57 30,500.00	1,484.82 25,780.00	400.00 30,000.00	4,286.79 26,260.00	194.68 1,280.00	1072% 88%
	Total Operating Fund	581,281.56	578,749.79	580,400.00	580,546.78	47,308.01	100%
	E/R Fund Income	2,319.07	4,281.74	3,000.00	6,387.59	1,137.38	213%
	TOTAL INCOME	583,600.63	583,031.53	583,400.00	586,934.37	48,445.39	101%

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MONTH-TO-DATE AND YEAR-TO-DATE EXPENDITURE/BUDGET ANALYSIS 12/31/2019

Account		2017		2018	2019	2019	2010	
Number	Account Name	Acutal		Acutal				Percent
					200301	12/31/2019	Expenses	YTD
4000	Equipment Replace Fund	41 604 1	7	41.604.1	7 41 504 00			
4020				Property of the American				100%
4140								85%
4150		100000000000000000000000000000000000000						99%
4160				H22000753 CUST	0.000 00			68%
4170				100000000000000000000000000000000000000		HOMERUS TO SERVICE OF THE		
4175					200.002.00	ACCESSOR SEC. 10. 10.000		100%
							3,390 45	92%
5.000.00 0 .00	U como como mante de como como como como como como como com			127070	0.000.00		246.48	74%
				100000	00.00		8.00	0%
					- ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2,400.00	0.00	100%
				70.00	0.00	0.00	0.00	0%
4240	-	100000000000000000000000000000000000000	_		102,000.00	145,247 00	57,404.00	96%
	Totals	592 500 98		482,548 76	729,686.25	694,316 96	91 702 80	95%
	"E/R Expenses	7,554 68		42 782 61	96,500.00	39,257.51	14 914.00	41%
	TOTAL EXPENSES	600 055 66		525,331.37	826 186.25	733,574 47	106.616.80	89%
Equipment & Re	placement				*Maintenau & D			
					maintenance & Re	pair		
ibulia Ducking Si	simmer Arm	5,000 00			Auto Diafer Yrly Mair	n. Fee		500.00
place BOD & An	nmonia probes	2,000 00	Х		Effluent Testing for F	Permit Renewal		1.500 00
place grit concet	rator, volute & cart for pista	15,000.00	х		Normal Maintenance			
place wooden do	oors	2 000.00			UV Spare Parts			8,000 00
place impellers fo	or RAS pumps	7.500.00	х		Road and parking lot	man		4.000.00
piace LED parkin	ng lot light	10.000 00		х	#2 Aeration Basin rep	oair valves lab te	stino	100.000.00
place electric par	nel & pump	15 000 00		v 1				100.000.00
All the second flatters from present		40,000 00		2020				**
				EVEV.	CARRYOVER 2018	002,866		
		96,500.00						
	Number 4000 4020 4140 4150 4160 4170 4175 4176 4190 4200 4240 Equipment & Re abuild Ducking Si eplace BOD & An eplace grit concet eplace wooden de eplace impellers fe eplace LED parkur eplace electric per	Account Name 4000 Equipment Replace Fund 4020 "Maintenance & Repair 4140 Insurance 4150 Vehicle Repair/Maint 4160 Hauters Fees to Contract 4170 Contract Management 4175 Etectric 4176 Utilities Misc 4190 Bank Charges 4200 Audit 4220 Professional Service 4240 Capital Purchases Totals **E/R Expenses	Number Account Name Acutal	Number Account Name Acutal	Account Name Acutal Acutal	Number Account Name Acutal Acutal Budget	Number Account Name Acutal Acutal Budget Actual as of Actual as of	Number Account Name Acutal Acutal Budget Actual as of December

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OPERATING FUND INCOME AND EXPENSE SUMMARY 12/31/2019

Beginning Balance	304,947.23
Income - Osage Beach Income - Lake Ozark Income - Other Income - Waste Haulers' Fees Interest - Checking Income - CD Interest Transfers From E/R Fund Transfers to E/R Fund Expenses	39,512.22 6,321.11 - 1,280.00 11.63 183.05 (3,467.00) (88,235.80)
Ending Fund Balance	260,552.44
Central Bank - NOW Acct. CD First Bank of the Lake, 2/20/21 #101318432	56,934.39 - 103,807.68
CD Central Bank, 1/20 #151763	100,000.00
Outstanding Checks:	(189.63) 260,552.44

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY 12/31/2019

Beginning Balance	546,839.58
Interest - Checking Income - CD Interest Transfers to E/R Fund Income - Miscellaneous Expenses	115.70 1,021.68 3,467.00 (16,937.00)
Ending Fund Balance	534,506.96
First Bank of the Lake - Money Mkt. CD Providence Bank, 8/20 #1268880 CD First Bank of the Lake, 2/20/21 #101318431 CD First Bank of the Lake, 04/20 #101318430	121,479.09 207,553.78 101,942.14 103,531.95
Outstanding Checks:	- 534,506.96

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OUR MISSION

We partner with communities to deliver the finest water and wastewater services available at a competitive price. We are committed to keeping water safe and clean while serving people and taking care of communities with improved technical operations. careful management and financial oversight, and ensured regulatory compliance.

Alliance Water Resources, Inc.

206 S. Keene St. Columbia, MO 65201

(573)874-8080



REPORT OF OPERATIONS

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

Month of December 2019

Submitted by Alliance Water Resources, Inc. for the

January 2020

Joint Sewer Board Meeting

SUMMARY OF FACILITY OPERATION

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

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

PLANT EFFLUENT QUALITY

	BOD mg/l	TSS mg/l	рН	E.coli Coliform Colonies/100 ml	Ammonia as N mg/L	O&G mg/L	Metals Selenium ug/L
Monthly Average	1.9	1.7	N/A	0	0.14	< 4.9	< 1.0
Peak Day	2.1	2.0	7.8	0	0.50	< 4.9	< 1.0
Percent Removal	99.1	99.1	N/A	N/A	N/A	N/A	N/A

NPDES EFFLUENT LIMITATIONS

	BOD mg/l	TSS mg/l	рН	E.coli Coliform Colonies/100 ml	Ammonia as N mg/L	O&G mg/L	Metals Selenium ug/ L
Monthly Average Weekly Average	30 45	30 45	6-9	126 630	2.2	10	3.6
Daily Max				N/A	11.5	15	9.1

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 1.235 MGD or 41% of Permitted flow with Lake Ozark contributing 12% of the total flow and Osage Beach contributing 88%. Daily influent flow BOD and TSS data is presented in Table A. Daily flow for the month and rainfall are shown in Figure 2. A three-year flow history for each of the two cities is presented in Table B.

Organic loading for the month was 66011 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 17 tanker loads of bio-solids during the month equivalent to a total of 62,900 gallons and 20,643 pounds dry weight solids.

416,951 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 360,000 gallons with a level of 6.0 feet in Tank 1 and 2.0 feet in Tank 2.

WASTEHAULERS

The plant received 14 loads of septage during the month totaling 32,000 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.
- The new generator start up was on the 3rd of December and everything went well.

WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Antero Maintenance Data Management schedule. (New version of Operator 10 Software)
- We started having trouble with the ammonia meter that was purchased in 2004 on 11th of November and contacted Hach tech support and troubleshot it with them and was told it needed replaced. We contacted the Joint Sewer Board reps for approval and ordered a replacement on the 25th of November and received it on the 12th of December.
- Flynn Drilling was here and removed the old potable well pump & tanks on the 4th and installed the new pump, tank and controls on the 5th of December. They had to come back a couple more times to do some finishing touches and is working great now.
- We started having problems with the portable LDO probe that was purchased in 2015 on the
 4th of December. We called Hach tech support and troubleshot it with them and they
 determined that the probe needed replaced. We contacted the Joint Sewer Board reps and
 received approval to purchase a replacement that same day and received it on 11th of
 December.
- JCI finally found a seal for the flygt lift station pump that they gave us a bid on in October to make one good pump out of two and received it back on the 19th of December.
- We came in on Christmas morning and found the furnace in the headworks/lab building had quit. We called Controlled Heating and Cooling and they came out on the 26th and found the blower motor had gone bad and installed a temporary motor until they could get one in. The replacement blower motor came in on the 27th of December and got it back in service that day.

SAFETY

 We conducted our monthly routine Safety Meeting on Hazard Communication & Vehicle Safety on the 12th of December.

REGULATORY AGENCY, INSPECTION AND REPORTS

We filled out the EDMR on MDNR's website on the 3rd of January.

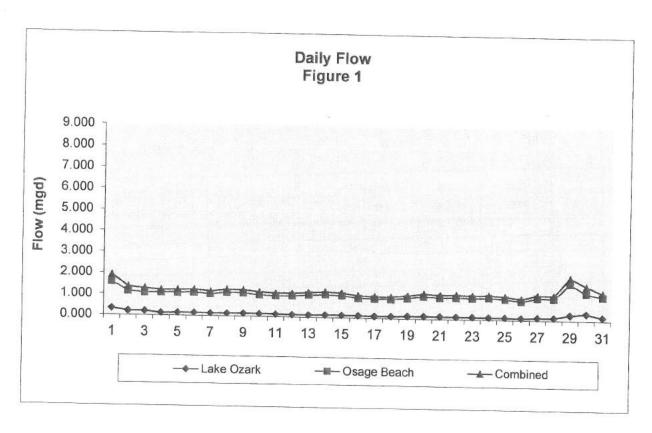
MISCELLANEOUS AND RECOMMENDATIONS

 Attached are copies of the updated 2020 Emergency Response Plan (ERP) & 2020 Plant Inventory list.

TABLE A LAKE OZARK/OSAGE BEACH WWTP

MONTH OF December 2019

DATE			F	LOW			E	BOD 5 M	G/L		TSS MG/L		
	RAIN FALL IN.	LO mgd	OB mgd	COMB mgd	% LO	% ОВ	LO mg/l	OB mg/l	COMB mg/l	LO mg/l	OB mg/l	COMI	
1-Dec	0	0.333		1.912	17.4	82.6							
2-Dec	0	0.210	1.140	1.350	15.6	84.4				-			
3-Dec	0	0.208	1.079	1.287	16.2	83.8				-			
4-Dec	0	0.123	1.090	1.213	10.1	89.9				-			
5-Dec	0	0.148	1.087	1.235	12.0	88.0				-	-		
6-Dec	0	0.146	1.106	1.252	11.7	88.3	160	175	1.02	100			
7-Dec	0	0.132	1.042	1.174	11.2	88.8	100	1/3	163	102	100	14	
8-Dec	0	0.144	1.118	1.262	11.4	88.6							
9-Dec	0	0.150	1.102	1.252	12.0	88.0							
10-Dec	0	0.141	1.021	1.162	12.1	87.9	-						
11-Dec	0	0.123	0.995	1.118	11.0	89.0							
12-Dec	0	0.114	1.002	1.116	10.2	89.8		-					
13-Dec	0	0.115	1.048	1.163	9.9	90.1	165	00.5					
14-Dec	0	0.123	1.084	1.207	10.2	89.8	165	235	173	122	140	17	
15-Dec	0.0	0.124	1.046	1.170	10.6	89.4							
16-Dec	0.3	0.118	0.942	1.060	11.1	88.9							
17-Dec	0.2	0.100	0.919	1.019	9.8	90.2							
18-Dec	0	0.114	0.912	1.026	11.1	88.9	170	210					
19-Dec	0	0.123	0.967	1.090	11.3	88.7	178	310	288	122	238	28	
20-Dec	0	0.131	1.060	1.191	11.0	89.0	-	-					
21-Dec	0	0.131	1.019	1.150	11.4	88.6							
22-Dec	0	0.130	1.031	1.161	11.2	88.8		-					
23-Dec	0	0.123	1.009	1.132	10.9	89.1							
24-Dec	0	0.121	1.037	1.158	10.4	89.6							
25-Dec	0	0.120	0.986	1.106	10.8	89.2	-						
26-Dec	0	0.102	0.895	0.997	10.2	89.8							
27-Dec	0	0.131	1.052	1.183	11.1	88.9	253	205	000	112			
28-Dec	0	0.139	1.039	1.178	11.8	88.2	233	205	203	142	160	192	
29-Dec	1.3	0.277	1.745	2.022	13.7	86.3	-	-					
30-Dec	0	0.339	1.291	1.630	20.8	79.2							
31-Dec	0	0.175	1.132	1.307		86.6				-	-		
SUM	1.8	4.708	33.575	38.283			9						
AVG		0.152	1.083	1.235	12	88	189	231	207	122	160	199	



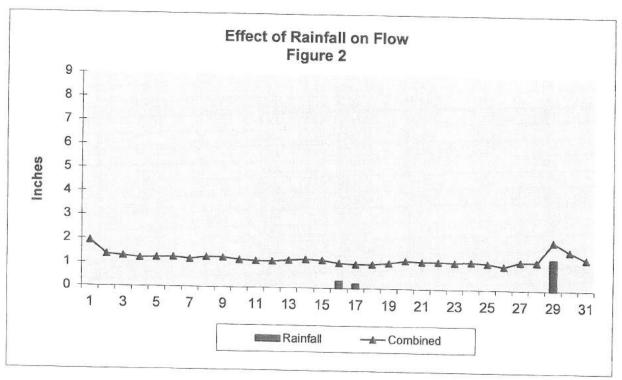
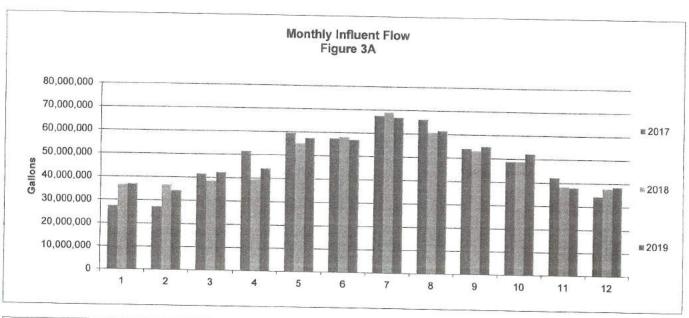
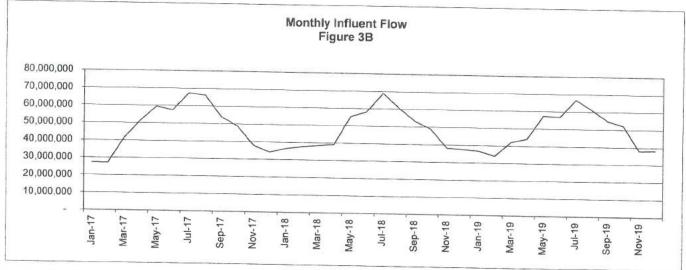
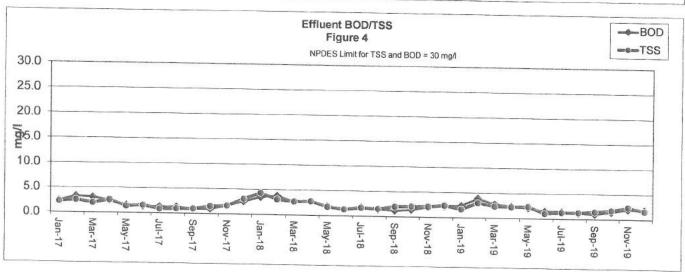


TABLE B JOINT SEWER BOARD Monthly Flows

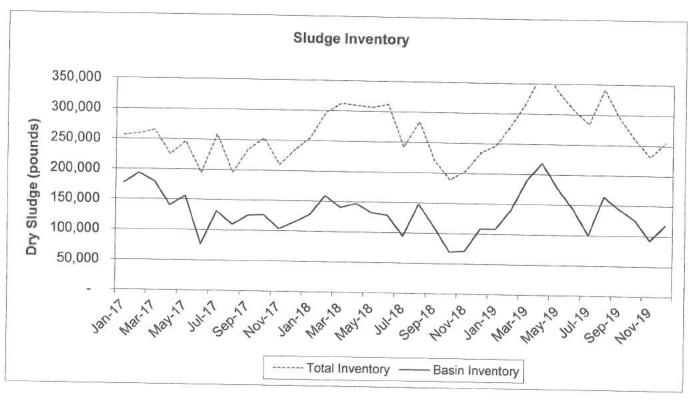
2017	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
January	2.5		86%	3,909,000	14%	27,349,000	100%
February	0.7		86%	3,812,000	14%	27,157,000	
March	3.8		88%	4,844,000	12%		100%
April	9.8		87%	6,723,000	13%	41,398,000	100%
May	8.1		87%	7,979,000	13%	51,388,000	100%
June	2.9	8 (8)	88%			59,506,000	100%
July	5.2		88%	6,618,000	12%	57,544,000	100%
August	12.4		87%	8,092,000	12%	67,439,000	100%
September	1.5		87% 87%	8,409,000	13%	66,145,000	100%
October	7.4	장사 선생님이 생겨지 않는 것이 없었다.		6,866,000	13%	53,962,000	100%
November	0.5		87%	6,332,000	13%	48,821,000	100%
December	0.9		90%	4,244,000	10%	42,191,000	100%
December	0.9	30,459,000 8	89%	3,808,000	11%	34,267,000	100%
	55.6	505,531,000 8	88%	71,636,000	12%	577,167,000	100%
2018	RAINFALL	OSAGE BEACH	,	AVE OZARY			
January	2.8			LAKE OZARK	****	TOTAL	%
February	5.4		38%	4,345,000	12%	36,535,000	100%
March	3.4		37%	4,861,000	13%	36,707,000	100%
April	1.9		37%	5,010,000	13%	38,434,000	100%
May			88%	4,896,000	12%	39,235,000	100%
June	5.4		86%	7,610,000	14%	55,230,000	100%
	3.2		88%	7,125,000	12%	58,188,000	100%
July	2.7		88%	8,550,000	12%	69,034,000	100%
August	6.9		7%	7,679,000	13%	60,595,000	100%
September	3.4		7%	7,013,000	13%	53,241,000	100%
October	7.5		6%	6,738,000	14%	48,775,000	100%
November	3.6		7%	5,089,000	13%	38,310,000	100%
December	6.3	32,452,000 8	6%	5,123,000	14%	37,575,000	100%
	52.3	497,820,000 8	7%	74,039,000	13%	571,859,000	100%
2019	RAINFALL	OSAGE BEACH	1	AVEOZIBY		(Appell 1227) 12270 12471	00.15
January	2.1	A STATE OF THE PARTY OF THE PAR	7% ⊥	AKE OZARK	100/	TOTAL	%
February	4.4		6%	4,708,000	13%	36,793,000	100%
March	6.3		6%	4,650,000	14%	34,142,000	100%
April	4.1			5,876,000	14%	42,086,000	100%
May	9.9		6%	6,135,000	14%	44,126,000	100%
June	6.0		5%	8,333,000	15%	57,457,000	100%
July	4.8		6%	7,864,000	14%	56,915,000	100%
August	6.0		6%	9,132,000	14%	66,798,000	100%
September	3.5		7%	8,215,000	13%	61,289,000	100%
October			7%	7,165,000	13%	54,897,000	100%
November	11.1 3.5		5%	7,194,000	14%	52,165,000	100%
		33,141,000 87	7%	4,779,000	13%	37 020 000	100%
)ecember			201			37,920,000	10070
December	1.8		8%		12%	38,283,000	100%

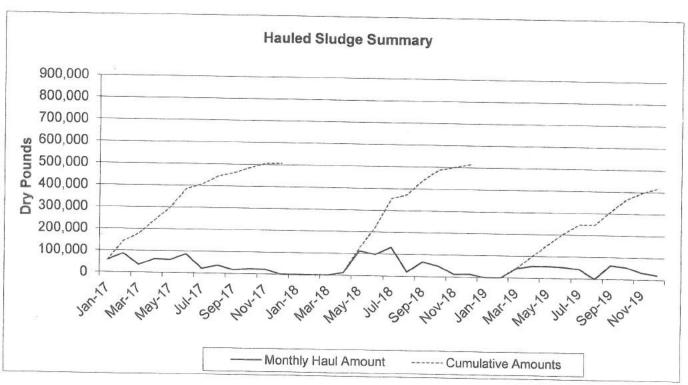






	Hauled Sludge																				
	Loads Gallons # Dry % Solids Annual Cumulative # Dry			Basin Depths Tank #1 Tank #2 AB #1 Basin Gallons # Dry					Blanket Depths MLSS Inventory Blanket and MLSS Inventory MLSS Total Dry												
Jan-17	47	173,000	56,748	3.9%	56,748	6.0	6.0	AB #1 E		# Dry	Clarf #1	Clarf #2	Clarf #3 N	ALSS AB #1	VLSS AB #2	Gallons	# Dry		Total Dry Sludge Inventory		d Septage
Feb-17	68	251,600	86,649	4.1%	143,397	5.5	7.0	0.0	540,000 562,500	177,132 193,720	1.0	0.0	1.0	8	5,080	1,861,190	78,853	0.00508	255,986	Loads 15	
Mar-17	33	122,100	34,808	3.4%	178,205	7.5	6.5	0.0	630,000	179,599	1.5	0.0	2.0	34	4,090	1,913,499	65,271	0.00409	258,991	5	
Apr-17	59	218,300	61,994	3.4%	240,199	6.5	4.5	0.0	495,000	140,573	3.0 8.0	10.0	1.0	9	5,400	1,896,714	85,420	0.0054	265,019	41	
May-17 Jun-17	51 75	188,700	59,556	3.8%	299,755	7.0	4.0	0.0	495,000	156.228	1.0	1.5	1.5 0.5	2 400	4,630	2,184,858	84,367	0.00463	224,939	В	
Jul-17	20	277,500 74,000	85,724	3.7%	385,479	2.5	3.0	0.0	247,500	76.457	3.0	2.5	1.5	3,420 4,530	2,480	3,666,119	90,198	0.00295	246,426	45	20,000
Aug-17	39	144,300	21,631 37,030	3.5%	407,110	4.5	5.5	0.0	450,000	131,540	1.0	1.0	0.5	4,530	3,000 3,650	3,762,833	118,153	0.00377	194,610	33	
Sep-17	16	59.200	17,311	3.5%	444,140	5.0	4.5	0.0	427,500	109,704	1.0	0.5	1.0	2,910	2,740	3,657,238 3,670,071	126,886	0.00416	258,426	43	107,500
Oct-17	20	74.000	23,051	3.7%	461,451 484,502	6.0	3.5	0.0	427,500	125,008	0.5	1.0	1.0	3,880	3,300	3,670,071	86,469 109,884	0.00283	196,173	41	
Nov-17	20	74,000	21,292	3.4%	505,794	8.0 4.5	1.0	0.0	405,000	126,158	0.5	1.0	1.0	4,520	3,780	3,670,071	127,025	0.00359	234,892	48	
Dec-17	0		0	3.4%	505,794	6.0	3.5	0.0	360,000	103,583	1.0	1.5	0.5	2,890	4,050	3,666,119	106,250	0.00415	253,182 209,832	10	
Jan-18	0	1.75	0	3.4%	000,734	5.5	4.5	0.0	405,000	114,842	1.0	1.5	1.0	3,680	4,120	3,687,833	119,950	0.0039	234,792	7	17,500
Feb-18	0		0	3.4%	9	7.5	5.0	0.0	450,000 562,500	127,602	0.5	1.0	0.0	4,390	4,040	3,626,643	127,488	0.00422	255,090	,	17,500
Mar-18	0		0	3.4%	*	5.5	5.5	0.0	495,000	159,503 140,362	2.0	4.0	1.0	4,880	3,920	3,750,000	137,610	0.0044	297,113	5 16	12,500
Apr-18	11	40,700	12,096	3.6%	12,096	5.0	6.0	0.0	495,000	147,114	0.5	0.5	0.5	5,580	5,780	3,639,476	172,406	0.00568	312,769	6	40,000 15,000
May-18	93	344,100	112,693	3.9%	124,789	4.5	4.5	0.0	405,000	132,638	0.5 0.5	0.5	0.5	5,670	5,040	3,639,476	162,542	0.00536	309,655	8	20,000
Jun-18 Jul-18	88	325,000	97,758	3.6%	222,547	4.0	5.5	0.0	427,500	128,589	4.0	0.5 3.0	0.5	5,963	5,547	3,639,476	174,683	0.00576	307,321	10	24,500
Aug-18	126 12	466,200	131,023	3.4%	353,570	3.0	4.5	0.0	337.500	94,853	1.0	0.5	1.0	6,190	5,490	3,767,762	183,511	0.00584	312,100	38	95,000
Sep-18	51	44,400 188,700	19,441 66.098	5.3%	373,011	5.0	2.5	0.0	337,500	147,778	2.5	1.0	1.0	4,570 4.680	4,990	3,691,785		0.00478	242,026		107,000
Oct-18	38	140,600	48,447	4.2%	439,109	4.5	2.5	0.0	315,000	110,338	0.5	1.0	0.0	3,920	4,170 3,340	3,705,595		0.00443	284,531	30	75,000
Nov-18	11	40,700	12,899	3.8%	487,556	3.0	1.5	0.0	202,500	69,776	0.5	0.5	0.0	4,290	3,640	3,626,643		0.00363	220,132	45	113,500
Dec-18	14	51,800	14,688	3.4%	500,455	2.5	2.5	0.0	225,000	71,309	1.0	1.0	0.0	4,100	4,640	3,617,762 3,635,524		0.00397	189,409	21	59,500
Jan-19	0		0	3.4%	515,143	6.5	2.0	0.0	382,500	108,459	11.0	12.0	0.0	4.120	3,420	4,008,526		0.00437	203,809	8	21,500
Feb-19	0		0	3.4%	2	5.0 6.0	3.5 5.0	0.0	382,500	108,462	1.0	1.0	0.0	4,650	4.480	3,635,524		0.00377	234,494	22	55,000
Mar-19	36	133,200	43,139	3.9%	43,139	6.0	7.0	0.0	495,000	140,362	1.0	1.0	0.0	4,570	4,740	3,635,524	141,141		246,874 281,503	19	46,500
Apr-19	39	144,300	53,940	4.5%	97,079	5.5	7.5	0.0	585,000 585,000	189,462	0.5	1.0	0.0	4,780	3,920	3,626,643		0.00435	321,033	31	79,500
May-19	49	181,300	54,866	3.6%	151,945	8.0	5.0	0.0	585,000	218,676 177,036	1.5	0.5	1.0	5,720	4,530	3,678,952	157,248		375,923	9	21,500
Jun-19	44	162,800	51,872	3.8%	203,817	7.0	3.0	0.0	450,000	143,381	3.0	1.5	1.0	5,150	5,160	3,723,357		0.00516	337,113	23 12	61,500
Jul-19	37	136,900	43,633	3.8%	247,450	3.0	4.0	0.0	315,000	100,397	2.0	4.0	1.5	5,610	4,810	3,771,714		0.00521	307,267	19	25,500 47,500
Aug-19 Sep-19	0 58	244 000	0	3.8%	247,450	5.5	6.0	0.0	517,500	164,006	5.0	3.0	0.5	6,060	5,830	3,710,524		0.00595	284,370	36	84,000
Oct-19	50	214,600 185,000	62,487	3.5%	309,937	7.0	4.0	0.0	495,000	144,134	2.0	1.0	1.0	5,660	5,680	3,763,810		0.00567	341,988	29	72,500
Nov-19	29	107,300	54,742	3.5%	364,679	7.5	2.0	0.0	427,500	126,498	2.5	3.0	1.0	4,460 4,170	5,310	3,696,714		0.00489	294,741	22	55,000
Dec-19	29	62,900	31,629 20.643	3.5%	396,308	3.5	3.5	0.0	315,000	92,853	3.5	5.0	0.0	4,170	4,350 3,850	3,741,119		0.00426	259,414	40	97.000
100 00 00 00 00 00 00 00 00 00 00 00 00	200	02,000	20,040	3.8%	416,951	6.0	2.0	0.0	360,000	118,148	1.0	1.0	0.0	5,090	3,850	3,750,977	138,115		230,968	15	36,000
													110000	alana.	3,040	3,635,524	136,896	0.00452	255,044	14	32,000

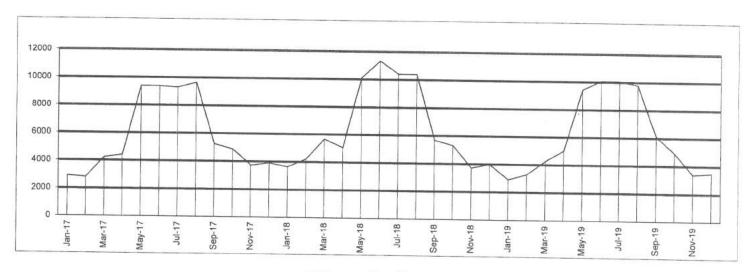




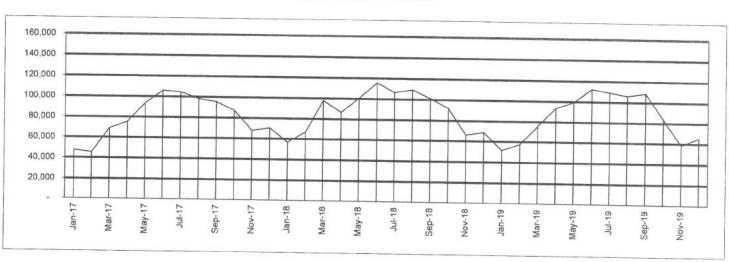
Jan-17 2904 47,480 Feb-17 2796 45,240 Mar-17 4233 69,210 Apr-17 4411 75,480 May-17 9413 93,494 Jun-17 9388 106,070 Jul-17 9310 104,700 Aug-17 9666 98,220 Sep-17 5246 95,470 Oct-17 4874 87,240 Nov-17 3738 68,100 Dec-17 3909 70,820 Jan-18 3640 56,750 Feb-18 4207 66,930 Mar-18 5667 98,010 Apr-18 5060 86,650 √ //ay-18 100,520 10116 Jun-18 11336 115,750 Jul-18 10417 106,550 Aug-18 10400 109,290 Sep-18 5685 101,170 Oct-18 5317 92,210 Nov-18 3731 66,280 Dec-18 3990 68,840 Jan-19 2926 51,490 Feb-19 3295 57,450 Mar-19 4251 75,830 Apr-19 5014 93,570 May-19 9452 99,330 Jun-19 10074 112,400 Jul-19 10066 109,190 Aug-19 9784 106,020 Sep-19 6115 108,680 Oct-19 4920 83,790 Nov-19 3390 58,410 Dec-19 3482 65,660

Electric Cost Kilowatts Used

Electric Cost



Kilowatts Used





MISSOURI DEPARTMENT OF NATURAL RESOURCES DIVISION OF ENVIRONMENTAL QUALITY

Discharge Monitoring Report For Municipal Wastewater Treatment Plants

		NAME OF			es:				ON ADDRES		Y		COUNT	Y/REGIO
MONT	H/YEAR	he Ozarks							Anderson F					r/SWRO
	c-19			T NUMBE 0103241	R	English Transfer	NUMBER	1			EATMENT F			
		NFLUENT	IVIO-	0103241	Т	#0	001	Ox FFF	idation Ditcl	n/UV/Slu	dge Holding	j-sludge	is land ap	plied
DATE	рН	BOD	TSS	TEMP	FLOW	700			Ammonia		E. coli		% R	emoval
1	UNITS 7.0	mg/L	mg/L	°C	MGD	pH UNITS	BOD mg/L	TSS mg/L	as N mg/l	DO mg/L	#/100 ML	TEMP °C	BOD mg/L	TSS mg/L
2	-			12.9	2.369	7.4				6.4		12.2		
3	7.3			12.3	1.782	7.5				7.1		11.5		
	6.9			13.5	1.676	7.4				6.8		10.7		
4	7.2			13.3	1.745	7.6				6.6		11.2		
5	6.5			13.0	1.709	7.4			0.01	6.8		11.1		
6	6.7	163	148	13.6	1.614	7.3	1.8	1.5		6.2		11.7	98.9	99.0
7	6.8			12.7	1.504	7.5				6.5		10.6		
8	6.8			13.4	1.697	7.5				5.6		10.8		
9	6.5			14.1	1.600	7.4				5.3		12.1		
10	7.0			12.9	1.549	7.4				5.7		10.4		
11	7.0			12.6	1.578	7.6				6.2		10.1		
12	6.6			13.7	1.618	7.5			0.50	6.4		10.4		
13	7.2	173	174	11.8	1.456	7.4	2.0	1.8		6.1		10.0	98.8	99.0
14	6.9			12.8	1.543	7.3				5.8		10.1	30.0	99.0
15	7.1			12.5	1.611	7.8				6.7		9.3		
16	7.2			11.7	1.509	7:5				6.3		8.8		
17	6.7			11.6	1.466	7.5			0.03	6.9		8.3		
18	6.7	288	280	11.8	1.515	7.3	1.8	2.0	0.00	6.8		8.5	00.4	00.0
19	6.9			11.4	1.564	7.6				6.9		8.6	99.4	99.3
20	6.9			11.9	1.536	7.5				6.3		9.0		
21	7.0			12.5	1.596	7.5				6.2				
22	7.0			11.7	1.550	7.6				6.2		8.9		
23	6.8			12.0	1.517	7.6				6.2		9.4		
24	7.0			11.1	1.492	7.6				6.1		9.7		
25	7.1			11.3	1.459	7.7						9.1		
26	6.7			12.3	1.289	7.5			0.02	6.4		9.5		
27	6.8	203	192	11.5	1.522	7.5	2.1	1.5	0.02	6.7		10.8		
28	7.2			13.3	1.537	7.4	4.1	1.0		5.9		10.6	99.0	99.2
29	7.1			13.2	2.504	7.4				5.4		11.9		
30	7.0			11.7	1.993	7.4				4.6		12.8		
31	7.1			10.8	1.714	7.6				5.6		11.2		
otal	(T. S. S.)	111				7.5				6.7		9.9	1000	
vg		207	199	10	50.814									
in	6.5	163		12	1.639		1.9	1.7	0.14	6.2	0.0	10.3	99.0	99.1
lax	7.3	288	148 280	11	1.289	7.3	1.8	1.5	0.01	4.6	0.0	8.3	98.8	99.0
	1.0	200	200	14	2.504	7.8	2.1	2.0	0.50	7.1	0.0	12.8	99.4	99.3

	MON	THLY MONIT					QUARTERLY	MONITORIN	IG	
DATE	Oil & Grease mg/L	Selenium µg/L	SM1 Hardness	SM2 Hardness	Phosphorus	SM1 Phosphorus	T. Nitrogen	CBR4	TR. Cadmium	TR. Copp
1	- mg/L	HB/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ug/L	μg/L
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12	< 4.9	< 1.0	278	308						
13										
14										
15										
16										
17										
18										
19							-			
20							-			
21										
22										
23										
24										
25										
26										
27										
28										
29						-				
30										
31						-				
al	< 4.9	< 1.0	278	308		.7.3.00				
	< 4.9	< 1.0	278	308			(4) (4)			
	< 4.9	< 1.0	278	308						
	< 4.9	< 1.0	278	308						

OPERATIONAL CONTROLS/LABORATORY TEST REQUIRED FOR "ACTIVA

		#1 A	VAL CONTR eration Ba	sin, O-Dit	cn, Etc.	#2 A	eration Ba	sin, O-Dif	ch. Ftc	*Weath		
	DISP.		MIXED	LIQUOR			MIXED	LIQUOR		Outside	er con	altior
DATE	LBS. DRY	* DO	** MLSS	*Settle	ability	* DO	** MLSS	*Settle		* Ambient	*RAIN	Time
	WEIGHT	mg/l	mg/l	*30 min ml	remp °C	mg/l	mg/l	*30 min ml	Temp	Temp °F	inches	inine
1		2.6	2,720	360	11.8	2.6	3,500	580	12.0	40	0	7:30
2		5.8	3,690	580	10.8	2.8	4,680	840	11.3	35	0	
3		2.3	3,290	410	11.2	2.6	3,300	540	11.3	31	0	7:30
4		4.3	4,470	710	11.2	4.3	3,890	630	11.7	34	0	7:30
5		2.7	4,780	800	11.1	4.0	3,970	650	11.8	34		7:30
6		3.5	5,040	800	11.9	3.8	4,150	650	12.2	42	0	7:30
7		2.2	4,940	800 -	10.9	3.9	4,280	670	11.0		0	7:30
8		1.9	4,490	740	11.3	2.7	4,750	760	11.5	28	0	7:30
9		1.1	4,150	550	12.5	1.0	5,170	800	12.5	38	0	7:30
10		3.2	4,040	600	10.9	1.1	5,550	850		52	0	7:30
11	7,220	3.1	4,620	790	10.1	1.8	4,890	820	11.1	28	0	7:30
12	7,406	2.2	5,360	840	10.6	3.1	4,360		10.6	27	0	7:30
13	6,017	1.1	5,100	820	10.1	2.1	4,540	700	11.0	43	0	7:30
14		1.5	5,060	860	10.3	3.4	4,400	820	10.1	38	0	7:30
15		2.1	5,120	820	9.4	4.1		800	10.4	39	0	7:30
16		2.4	4,860	850	8.8	3.7	4,590	820	9.5	33	0	7:30
17		3.5	4,630	810	8.6	4.1	4,860	850	8.4	29	0.3	7:30
18		3.7	5,110	840	9.4	4.2	4,770	820	8.7	22	0.2	7:30
19		3.2	5,090	840	9.2	3.7	4,540	840	8.9	30	0	7:30
20		2.8	5,050	840	9.2		4,620	840	9.0	27	0	7:30
21		2.5	5,310	850	9.7	4.3	4,410	740	9.9	31	0	7:30
22		2.5	5,330	870	10.1	3.9	4,190	730	9.7	32	0 .	7:30
23		1.2	5,660	850	9.7	3.9	4,130	710	9.7	30	0	7:30
24		1.3	5,090	820		4.4	4,150	730	10.1	31	0	7:30
25		1.9	4,720		9.7	4.5	4,080	720	9.4	32	0	7:30
26		2.7	4,340	760	10.3	4.7	4,670	820	10.4	39	0	7:30
27		2.8		650	11.4	3.0	4,930	800	11.6	46	0	7:30
28		1.7	4,180	670	11.0	3.0	5,100	830	11.0	39	0	7:30
29		1.0	4,430	740	12.1	2.2	4,810	810	11.9	53	0	7:30
30			4,380	720	12.7	1.1	4,480	750	12.7	51	1.3	7:30
31		1.0	5,040	830	11.1	2.1	4,420	720	11.1	37	0	7:30
DMMENTS		2.3	5,090	850	9.7	4.6	3,940	720	9.9	33	0	7:30

ESTS PERFORMED BY (PRINT) SIGNATURE	PHONE #	DATE
John Hornback EPORT APPROVED BY (PRINT) SIGNATURE	(573)365-0455	1/3/2020
Gary Hutchcraft (aux 15) 1 Const	PHONE #	DATE
*Required Daily (Monday -/Friday)	(573)365-0455	1/3/2020
40		**Required 1/week

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

PERMITTEE NAME/ADDRESS

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

MO0103241 001 A PERMIT NUMBER DISCHARGE NUMBER

> MONITORING PERIOD YEAR MO DAY

YEAR MO DAY FROM 2019 12 01 2019 12 31

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

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

Parameter		M	ASS Z	Unit		CONCENTR	ATION	Unit	FREQUENCY	SAMPLE	LAB
BOD, 5-day, 20 deg. C (00310)	REPORTD	****	****		1			Dega	OF ANALYSIS	TYPE	CODE
Stage Type: End of Pipe	REORMNT				****	2.1	1.9		Weekly	24 Hour	
	100000000000000000000000000000000000000	*****	****		*****	Weekly	Monthly Average:	mg/L	A STATE OF THE SECOND	Composite 24 Flour	
BOD, 5-day, percent removal (81010	REPORTD	****	****	-	****	Average: 45	Control of the last of the las		Weekly	Composite	
	REQRMNT	10 Per 1921	Philippe and the second and		****	****	98.8		Monthly	Calculated	
Stage Type: End of Pipe	1,1955		****		*****	****	Monthly Average	%	Monthly		
Flow, in conduit or thru treatment	REPORTD	2.504	CONTRACTOR ACTION		Company of		Minimum: 85		Numery	Calculated	
plant (50050)	NECON COM		1.639	Martia	*****	*****	****		Daily	Total	
Stage Type: End of Pipe	REQRMNT	Daily Maximum : Monitoring Required	Monthly Average:	Mgal/d	****	****	****		District Control of the Control	Measured	
Nitrogen, ammonia total (as N)	REPORTD	*****	Monitoring Required		三、五百二	型上海拔			Daily	Total Measured	
00610)	REGRMNT	Monage (1994) and the second			0.50	****	0.14		Weekly	Grab	
Stage Type: End of Pipe			*****		Daily Maximum : 11.5	075 and	Monthly Average:	mg/L	Weekly	Grab	
	REPORTD	****	*****		<4.9	****					
00330)	REQRMNT	124			Daily	William Control	<4.9		Monthly	Grab	
tage Type: End of Pipe		****	****		Maximum:	*****	Monthly Average:	mg/L	Monthly	Grab	
	REPORTD	****	*****		7.3	****					
tage Type: End of Pipe	REQRMINT	10401	6-0-0-mg		Minimum		7.8	CII	Weekly	Grab	
	REPORTD	****	4		6,5	*****	Maximum: 9.0	SU	Weekly	Grab	
30091 \	REGRAINT		*****		<1.0	****	<1.0		Monthly	Grab	
tage Type: End of Pipe		• • • • •	*****		Daily Maximum: 9.1	****	Montally Average :	ug/L	Monthly	Grab	

OUTFALL-SPECIFIC COMMENTS:: PARAMETER-SPECIFIC COMMENTS:

centify under penalty of hw 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 incompanies are not assured to assure that qualified personnel properly gather and evaluate the information submitted. Based on my incompanies are not assured to assure that qualified personnel properly gather and evaluate the information submitted. Based on my incompanies are not assured to assure that qualified personnel properly gather and evaluate the information submitted. Based on my incompanies are not assured to assure that qualified personnel properly gather and evaluate the information submitted. Based on my incompanies are not assured to assure that qualified personnel properly gather and evaluate the information submitted. Based on my incompanies are not assured to assure that qualified personnel properly gather and evaluate the information submitted. Based on my incompanies are not assured to assure that qualified personnel properly gather and evaluate the information submitted. Based on my incompanies are not assured to assure that qualified personnel properly gather and evaluate the information submitted. Based on my incompanies are not assured to assure that qualified personnel properly gather are significant personnel properly gather and evaluate the information are not assured to assure that qualified personnel properly gather are significant personnel properly gather and evaluate the information are not assured to assure that qualified personnel properly gather are significant personnel properly gather and evaluate the information are not assured to assure the properly gather are not assured to assure the properly ga

	OPERATOR IN	RESPONSIBLE CHARGE	am aware that there are significant penalties for submitting false information, includin
Gary Hutch	craft	CHARGE	
TYPED OR PRIN	TED NAME		7305
PRINCIPAL EXECUTIVE OFFICE	OP AUTHORIZED ACTION		CERTIFICATE NUMBER
Gary F Hutchcraft		TELEPHONE	5733650455
TYPED OR PRINTED NAME	Gary F Hutchcraft		2020-01-03 09:55:25
The state of the s	SIGNATURE		Date

Page 1

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

PERMITTEE NAME/ADDRESS

NAME: ADDRESS: Lake of the Ozarks Regional WWTP 1

#3 Anderson Road LAKE OZARK, MO 65049

M	10010	3241	П		01 A	
PER	MIT N	JMBER		ISCHAR	GEN	JMBER
	N	OTTO	DRING	PERIO	0	
YEAR	мо	DAY	то	YEAR	мо	DAY

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

Dep. of Natural Resources (REGIONAL OFFICE)

Southwest Regional Office 2040 W. Woodland Springfield, MO 65807-5912 4178914300

4178914399 (fax)

Parameter		M	ASS	Unit		CONCE	NTRATION	Unit	I FREQUENCY	SAMPLE TYPE	EAR
Suspended Solids, percent removal (81011)	REPORTD	****	****		****		and appropriate the second control of	CONC	OF ANALYSIS	Dicion CE LILE	CODE
(61011)	REQRMNT	14 14 TO STORY	7.7				99.0		Monthly	Calculated	
Stage Type: End of Pipe		*****	*****		*****	*****	Monthly Average Minimum	%	Monthly	Calculated	
Total Suspended Solids (TSS) 00530)	REPORTD	****	****		****		. 03		a annual and a second	Call araice	
	REORMAT					2.0	1.7		Weekly	24 Hour	
tage Type: End of Pipe seneral permit requirements or co		*****	*****		****	Weekly Average: 45	Monthly Average: 30	mg/L	Weekly	24 Hour Composite	

OUTFALL-SPECIFIC COMMENTS:: PARAMETER-SPECIFIC COMMENTS:

To 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 of imprisonment for knowing violations.

Gary Hutch	raft	RESPONSIBLE CHARGE	
TYPED OR PRIN			7305
PRINCIPAL EXECUTIVE OFFICE	OR AUTHORIZED ACENTS		CERTIFICATE NUMBER
Gary F Hutchcraft	Gary F Hutchcraft	TELEPHONE	5733650455
TYPED OR PRINTED NAME	SIGNATURE		2020-01-03 09:55:25
	SIGNATURE		Date

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

Page 2

2040 W. Woodland Springfield, MO 65807-5912 4178914300 4178914399 (fax)

NAME: ADDRESS:

Lake of the Ozarks Regional WWTP 1

#3 Anderson Road LAKE OZARK , MO 65049

MO0103241 SM2 A PERMIT NUMBER DISCHARGE NUMBER MONITORING PERIOD FROM 2019 12 01 TO 2019 12 31

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

Parameter		M	ASS	Unit	CON	CENTRA	TION	Unit	PREQUENCY OF ANALYSIS	SAMPLE TYPE	LAB
Hardness, total (as CaCO3) (00900)	REPORTD	****	****		308	****	308		Monthly	Grab	COSSI
Stage Type: Instream Monitoring	REQRIENT	****	****		Daily Maximum . Monitoring Required	****	Monthly Average : Monitoring Required	mg/L	Monthly	Grab	

GENERAL PERMIT REQUIREMENTS OR COMMENTS:

DITALLSPECIFIC COMMENTS:

PARAMETER-SPECIFIC COMMENTS:

PARAMETER-SPECIFIC COMMENTS:

| 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 manages the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and bettef, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility

		RESPONSIBLE CHARGE	
Gary Hutch	craft		7305
TYPED OR PRIN			CERTIFICATE NUMBER
PRINCIPAL EXECUTIVE OFFICE	R OR AUTHORIZED AGENT	TELEPHONE	5733650455
Gary F Hutchcraft	Gary F Hutcheraft		2020-01-03 09:55:25
TYPED OR PRINTED NAME	SIGNATURE		Date

Page 3

FOR DECEMBER 2019

+	-		1	Ta	_	_	T	ENFELTING	_	1.33	1 8	_	-	ENVE	OVORDITAL.	contention	res .		MD(ED)	DQUOR		_		PETCE	DATION DENO. I LAGROSS			CLARIPLES NO.1	NO1	CLARIFIES NO I						PLANT	EFFLUXET.	MI UPSTRE	AM a INC E	OPERTRIL	AH:					NET	TURN SLABOR	Wa	ANTY MAD D FROKAS
	MILLE	7LOW LD INgel	No.17 No.17	FOCAL No.	0.0001	90000 (184)	BCD-TOFAL Hwy T	19 E	12 cs	TAS-TOTAL	domests a	1	1000	STITISM	пичнестви	The state of the s	Chapter 7.	NULPH NULPH FINATI	HTTLOHOTTO Parkent	SW (might	E 3	100	100/E01	Ordinal	STEE Configure	t	8 %	PERTHON RUDOR BLANGER SAN	MATTHON MATTHON MATTHON MATTHON	SELECTA OF SELECTA SELECTA SELECTA SERIO	PLOW DT (seed)	e	Marin Marin	Orani mario	State with	TOUC.	E Cal	A GAEASE Olomby)	North)	Monthly) NullStrau Medite:	TA	MITTE MPRORES	TUTAL TLOGGI Jameshy	D TUTAL TROODS Awterly	Coloursa beterli) COPPE	PLOW (price)	PROSO CLES Wall	NOW MAN	
	JH H			9 1.913		-	-	-	-		1	7.0	12 12	9	0	0	40	2,720	360	132	7.22	2.6	3,500	580	166	7.24	2.6	1.0	1.0	0	2 365	7.40	+	-	5.4	12.2	-	8 .	-	1 1	£	1.80	23	124	著名 芸	-	2	- 3	4
-	vime.	-		0 1.350	1	-	-	+-	-	-	-	7.3	10 12	.3	PC	0	35	3,690	580	157	7.35	5.8	4,680	840	176	7.33	2.8	1.0	2.	5 0	-	7.51			7.1	11.5		1	-	-	+	-	1	-	-	0.84			-
-	nrma!	1000	1000	1.287		-	-	-	-	-	17	7.7 6.5	0 13	5	C	0	31	3,290	410	125	7.04	23	3,300	540	164	7.03	2.6	1.0	1.0	0 0	-	7.35			6.8	10.7		-	+	+	+	+	++	-	_	0.64	1	-	000
-		0.123		1.213	-	-	-	+-	-	+		7.2	4 13.	3	C	0	34	4,470	710	159	7.45	4.3	3,890	630	162	7.41	4.3	2.0	2.5	5 0	-	7.63			6.6	11.2		_		-	-	-	+-+	-	-	0.710	-		+
+				1.235			-	-	-	-	27	.9 6.5	4 13	0	0	0	34	4,780	800	167	6.91	2.7	3,970	650	164	6.81	4.0	3.5	2:		1.709	7.36				11.1			-	+	+	+	-	-	_	0.859			-
-	-			1.252		175	16:	102	1.0	0 14	8	6.6	9 13.	6	0	0	42	5,040	800	159	6.97	3.5	4.150	650	157	6.94	3.8	1.0	1.0	0	1.614	7.30	1.8		6.2	11.7		-	-	+	+		+-+	-	-	0.796	1		+
				1.174		-	-	-	-	-	1	6.7	5 12	7	C	0	28	4,940	800	162	7.11	2.2	4,280	670	157	7.46	3.9	2.0	2.0	0 0		7.48	-		5.5	10.6		_	+	+	+	-	+	-	-	0.551	1	90 45,0	000
-	-	P. 144		1.262		-	-	-	-	-	-	6.7	7 13	4	c	0	38	4,490	740	165	7.22	1.9	4,750	760	160	7.10	2.7	2.0	2.5	0		7.46			5.6	10.8		+	+	+	1-	-	+	-	-	0.798		15	-
	remain		1	1.252		-	-	-		-		6.5	3 14.	1	0	0	52	4,150	550	133	7.22	1.1	5,170	800	155	6.90	1.0	2.0	5.0	0		7.42	-		5.3	12.1		-	+	-	+	-	-	-	_	0.701	7,81	5	4
+		0.141	-	1.162	-		-	-	_	-		6.9	6 12.	9 1	C	0	28	4,040	600	148	7.39	3.2	5,550	850	153	7.21	1.1	3.0	6.0	0		7.44	1		5.7	10.4	+	-	+	-	+		-	-	-	0.555	7.800	10	1
-		A. Carri		1.118	-		-		_		-	7.0	4 12.0	6	c	0	27	4,620	790	171	7.39	3.3	4,890	820	-		1.8	2.5	2.5			7.58	1		12		-	-	+	-	-	-	-	-	-	0.853	6,500	10	4
				1.116			_		-	1	28	1 6.5	8 13.	7	0	0	43	5,360	840	157	7.06	2.2	4.360	700	161		3.1	5.0	3.0	1	1.618		+		700	10.1	-			-	-	-	-	-		0.788	6,900	0	
-				1.163	165	235	173	122	140	174		7.1	5 11.1	8 F	C	0	38	5,100	45000	161			4,540	820			2.1	4.0	3.0				-		-	0 10.4		4.9 <	0 27	8 308	5	-	-	-		0.775	7,080	.0	
-		0.123	1.084	1.207								69	2 12.8	8	0	0	39	5,060	860	170	7.16		4,400	800		7.23	-	1.0	1.0		1,543	100	2.0	18 6		10.0	-	-	-	-				-	-	0.812	7,585	45,00	GO.
-	-	0.124	1.045	1.170								7.1	1 12:	5	a	0	33	5,120	820	160			4,590	820		7.55	-	1.0	1.0		11000	100	+	5		10.1	-	-	+	-	-		-	_		0.741	7,255	.5	
_				1.060								7.2	3 11.7	,	S 0	3		4,860	-	175			4,860	850	175			2.0	2.0	1	1.611	-50.00	-	6		9.3	-	-	+	-	-			_		0.888	7,335	5	
Jŀ.	UDS	0.100	0.919	1.019							37.	8 6.6	11.6	5	0 0	2	22	4,630		175			4,770	820			4.1	2.5	2.0	0	1.509		+		3	8.8	-	-	4	-	-					0.841	7,835	5	
		A.514		1.026	178	310	288	122	238	280		6.5	11.8		0	0	-	5,110	-	164			4,540	840				2.5	3.5	- 0	1.466	1000	+	100	9 0.03	8.3	-	+	+	-						0.826	7,405	5	
ПН	t/DS	0.123	0.967	1.090								6.90	11.4		c	0		5,090		165		1	1,620	840	-		4.2		2.0	0	1.515		1.8	20 6		8.5	-	-	-							0.765	5,655	5	
			1.060			-						6.86	11.9		c		-	5,050	-	166					111.5	0.000	3.7	2.0	3.0	0	1.564	-	+	6	9	8.6	-			-						0.700	7,415	5 90,00	30
ŀ	H/DS	0.131	1.019	1.150								6.97	1			0		5,310		160	_		1,410 L190	740	77.53	- 0.00	4.3	2.0	1.0	0	1.536	-	+	- 6	3	9.0			-							0.632	6,815	5	Ī
il	H/DS (0.130	1.031	1.161								6.99				0		5,330		163				730		-	3.9	3.0	3.0		1.596	-	-	6.	2	8.9		_								0.840	6,155	5	7
H	UDS (0.123	1.009	1.132					1			6.83	1			0	_	5,660					1,130	710			1.9	3.0	2.0	0	1.550	7.60	-	6.	2	9.4										0.802			7
H	I/DS (0.121	1.037	1.158			1					7.04	-			0		5.090		150			1,150	730	176		4.4	3.0	2.5	- 0	1.517	7.60	-	6.	2	9.7										0.704	-		10
H	I/DS (0.120	0.986	1.105								7.14				0	-	4,720		161			080,	720			4.5	3.0	3.0	0	1.492	7.62	-	6.	1	9.1							(L.,		- 1	0.751	-	-	Ì
i	DS C	0.102	0.895	0.997				5			24.6		1			0		4.340					670	820			4.7	2.5	2.0	0	1.459	7.71	-	6.	4	9.5										0.829			1
Н	/DS 0	0.131	1.052	1.183	253	205	203	142	160	192		6.75	-						50.0	150 7			,930	800		-	3.0	2.0	2.0	- 0	1.289	7.50		6.	7 0.02	10.8					- 1					0.727	-		t
j			1.036				802	1.12	1,00	174		7.22	-					4.180	0.00		48 2	-	,100	830	-		3.0	2.0	3.0	0	1.522	7.54	2.1	1.5 5.5	9	10.5										0.666		1	
J	H C	0.277	1.745	2.022								7.14						4,430		167 7			916	018	168		2.2	1.0	1.0	- 0	1.537	7.30	1	5.0	4	11.9										0.592		10,000	+
J		-	1.291	-								6.98		-	1.			4,380	200	164 7			.480	750		-	1.1	6.0	5.0	0	2.504	7.37		4.6	6	12.8										0.828			t
j		-	1.132						-		-	7.12		-				5,040	3.50		-		.420		-	-	2.1	3.0	1.0	0	1.993	7.35		5.6	6	11.2										0.610		45,000	+
				38.283	756	925	022	483	210	704	112.1	1	10.10	-				5,090	76.1	167 7			.940	720	183	7.34	4.6	1.0	0.1	. 0	1.714	7.63		6.1	7	9.9										0.651		45,000	4
	_		1.745									214.6			13			5,180 23,	0.00		25 76		-	360 5	248	223 I	101	72.5	73.5	0	50.814	232	1.7 6	.8 193	0.56	319	0 <4	9 <1	278	308	0	0	0	0	0 0				+
			0.895		160	175	163				-			-	1.				3.5	175 7		8 5.5	550	850	185	7.55	4.7	6.0	6.0	0	2.504	7.82	2.1 2	1.0 7.1	0.50	12.8		9 < 11	-	-		0	0	0	0 0		223,765	360,000	
	-	-	1.083		189				100		-	1 100	0.000	-	-	-		,720	-	25 6	91 1.	0 3,3	300	540	153	6.81	1.0	1.0	1.0	0	1.289	7.30	.8 1	.5 4.6			150	9 < 1.0	1	-	0	0	0	0	0 0	0 0.888	13,610	90,000	+
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lar following	abbreviations	Occupied to	0	C	Calman	the second	19

Prepared by	GH, JH, DS	Approved by GH	Date	1/3/2020

TOOLS

I	em No.	Quantity & Item	* & X = New 2019
	1	1 - Craftsman 3 drawer tool box	& X - New 2019
	2	1 - Craftsman 5 drawer tool box	
	3	1 - Assortment SAE Allen wrenches	
	4	1 - Assortment Metric Allen wrenches	
	5	1 - 3/8 SAE T Allen wrench	
	6	1 - Set 3/8 Allen wrench sockets 1/8 - 1/2	
	7	1 - Set SAE & Metric nutdrivers in tool bag	
	8	7 - SAE nutdrivers 3/16 - 1/2	
	9	7 - Metric nutdrivers 5mm - 11mm	
	10	5 - Torx screwdriver assorted sizes	
	11	1 - Assortment of straight & Philips screwdrivers	
	12	1 - 1/2"staight screwdriver socket	
	13	1 - 1/4"deep socket set 4mm -14mm	
	14	1 - 1/4" deep socket set 3/16 - 1/2	
	15	1 - 1/4" shallow socket set 4mm - 13mm	
	16	1 - 1/4" shallow socket set 5/32 -1/2 w/ 2 & 3" extensions	
	17	1 - 1/4"Ratchet	
	18	1 - 40 piece 1/4 & 3/8 socket set, in RAS basement	
	19	1 - 3/8" X 1/4" socket adapter	
	20	1 - 3/8" deep & shallow socket set 3/8 - 3/4	
	21	1 - 3/8"deep socket set 9mm - 19mm	
	22	1 - 3/8" Craftsman socket set 3/8 - 13/16	
	23	2 - 3/8" 1 1/2" extensions & 1 - 6" ext.	
	24	1 - 3/8" Ratchet	
	25	4 - 3/8" 6 point sockets 1/4 - 7/16	
		2 - 3/8" spark plug sockets 5/8 & 13/16	
		2 - 1/2" Ratchets & 1 set 1/2" extensions 2, 3 & 6"	
		1 - 1/2" deep socket set 3/8 - 13/16	
		1 - 1/2" socket shallow socket set 9mm - 21mm	
		1 - 1/2" socket shallow socket set 7/16 - 1 1/4	
	31	6 - KD brand 3/4" sockets, 1 3/8, 1 7/16, 1 1/2, 1 5/8, 1 13/16 & 2 3/4"	
	32	1 - 3/4" Breaker bar & 16" extension, True craft	
		1 - 10 piece ignition wrench set 4mm - 13mm	
		1 - 10 piece ignition wrench set 5/32 - 7/16	
		2 - Boxed end wrench's 1/2-9/16 & 5/8-11/16	
	36	3 - 3/8, 4 - 7/16, 2 - 11/16, 2 - 3/4, 2 - 13/16, 2 - 7/8 combination wrenches	
	37	4 - 15/16, 4 - 1", 3 - 1 1/16, 5 - 1 1/4 & 4 - 1 1/18 comb. wrenches	
	38	3 - open end wrenches 7/16-17/32, 5/8-11/16, & 3/4-7/8	
	39	1 - Set pm comb. Wrench's 1/4 thru 7/8 in pouch	
		3 - snap ring pliers	
	41	2 - pair channel lock pliers, 1 blue handle & 1 black	
		2 - pair electrical channel lock pliers, 6 & 10"	
	43	1 - set of left handed drill bits	

TOOLS

	TOOLS	
	Quantity & Item	* & X = New 2019
44	6 - electrical screwdrivers, 3 straight & 3 philips head	
45	2 - wire stripers	
46	1 - pair lineman pliers	
47	1 - pair needle nose pliers	
48	1 - pair side cutters, 6"	
49	3 - 10" Vise grip pliers, 2 curved jaw & 1 straight	
50	2 - 6" Vise grip pliers, 1curved & 1 needle jaw	
51	1 - yellow handle tin snips	
52	1 - 12" crescent wrench, Craftsman	
53	3 - pipe wrenches, 18", 24", & 36"	
54	1 - 10" Stanley level	
55	1 - 24" Craftsman level	
56	2 - 25' Task Force tape measures	
57	2 - 6" pocket metal rules	
58	1 - points file	
59	1 - file assortment	
60	1 - rasp file	
61	2 - Concrete trowel	
62	1 - feeler gauge	
63	1 - tool bag	
64	1 - ice pick	
65	1 - punch & chisel set	
66	1 - 2" C clamp & 2 - 4" C clamps	
67	2 - putty knives	
68	1 - parts brush	
69	1 - ball peen hammer	
70	1 - 4lb shop hammer	
71	1 - claw hammer	
72	1 - 10 lb sledge hammer	
73	1 - rubber mallet	
74	1 - hacksaw	
75	3 - wire brushes	
76	1 - tire gauge	
77	1 - 6" square	
78	2 - rag pullers	
79	1 - crow bar	
80	1 - garden rake	
	1 - round point shovel	
	1 - flat shovel	
	1 - 10lb straight bar	
	1 - pick	
	1 - anti freeze tester	
86	1 - flat bar	

TOOLS

Item No	. Quantity & Item	* & X = New 2019
87	1 - Craftsman 28 pc. tap & die set	_ CC A - New 2019
88	1 - Black & Decker drill & driver set	
89	1 - 7" carbide masonry drill bit set 3/16 - 3/4	
90	3 - masonry bits, 1/4, 5/16 & 3/8	
91	1 - Black & Decker metal drill bit set, 1/16 to 1/2 & HS bits assorted sizes	
92	2 - gear pullers, 1 large & 1 small	8
93	1 - Black & Decker 3/8 variable speed drill	
94	I - mini copper tubing cutter	
95	1 - PVC cutter	
97	1 - 1/2" Electric Impact Wrench	
98	1 - Sandblaster w/ 24ft of hose & 2 bags of blasting material	
99	1 - Hitachi hammer drill*	
	SLUDGE TRUCK TOOLS	
100	1 - grease gun	
101	1 - 20 piece Stanley SAE Comb. end wrenches 1/4 - 7/8	
102	1 - Set Comb. End wrenches 8mm - 18mm	
103	1 - Rubber maid tool bag	
104	4 - Stanley flathead screwdrivers	389
105	2 - Stanley phillips screwdrivers	
106	AC Delco T20x4" star screwdriver	
107	AC Delco 2x1 1/2" phillips screwdriver	
108	AC Delco 1/4"x1 1/2" slotted screwdriver	
109	13 oz. Wood handle claw hammer	
110	RayOVac industrial flashlight	
111	25' task force tape measure	
112	7 WR vise grip	
113	10 WR vise grip	
114	Stanley lineman pliers 84-113	
115	Stanley wire cutters 84-060	
116	Stanley crescent wrench 85-763	
117	1 - Set of wheel chocks	
118	1 - log chain	
119	1 - air hose	
120	1 - assortment Buse fuses & 1157 bulbs	
	MISCELLANEOUS EQUIPMENT	
121	1 - Ryobi 18 volt Drill, Circular Saw, Recip saw, Flashlight, Vacuum Combo K.	it w/2 hatteries
122	1 - Willermatic wire feed welder w/helmet & gloves	it will butterles
123	1 - 10-3 50ft & 1 - 10-3 100ft Extension cord	
	4 - metal lockers in men's restroom	
	2 - metal lockers in women's restroom	
126	1 - plastic mop bucket w/wringer	
127	1 - Gorilla ladder MPX-22	

MISCELLANEOUS EQUIPMENT

	MISCELLANEOUS EQUIPMENT	
	Quantity & Item	* & X = New 2019
128	1 - 4' step ladder, fiberglass	
129	1 - 6' step ladder, fiberglass	
130	10' stepladder, wood	
131	24' 300 lb rated extension ladder, aluminum	
132	24' 300 lb. rated extension ladder, fiberglass	
133	2 - set of plastic saw horses	
134	1 - 6"x 10' suction hoses	
135	2 - 6" x 25' suction hose	
136	1 - 4" x 60' suction hose	
137	1 - 4" x 15' discharge hose @ septic unloading station	
138	1 - Schumacher battery charger model SE-82-6	
139	1 - DieHard 12 volt automatic battery charger/engine starter model 28.71331*	X
140	1 - 100' extension cord	2.0
141	1 - 50' extension cord	
142	1 - 1 gallon plastic gas cans	
143	2 - 5 gallon steel safety gas cans	
144	1 - misc. log chains, headwork's tool room	
145	3 - 50'x1 1/2" fire hoses with 2 nozzles	
146	5 - Garden hoses	
147	1 - mechanic creeper	
148	2 - Craftsman gas leaf blowers, one not running	
149	1 - Craftsman 4 cycle weed eater	
150	1 - Stihl weed eater, not running	
151	1 - Kawasaki weed eater, not running	
	1 - cherry picker (engine hoist)	
153	1 - 9 gallon portable air tank	
154	1 - Campbell Hausfield 26 gallon air compressor	
155	1 - CH air drill	
156	1 - CH air ratchet	
157	1 - CH air grinder	
158	1 - CH air impact wrench	
159	1 - CH air chisel w/4 chisels	
160	1 - air tire inflator	
161	1 - Pro-Arc oxy-acc torch kit & tanks	
162	1 - Pro-Force 33 paint sprayer	
	1 - 15 gal 12 volt portable sprayer	
	1 - 60gal Ingersoll Rand in UV building	
	1 - 3 ea. grease gun	
	l - Cowhbian 5" multi bench vise	
	3 - shop vac's	
	2 - drum dollies	
	- Commercial Elec. Amp meter, HDSA 500	
170	- Commercial Elec. Multi meter. HDM 4100	

-	MISCELLANEOUS EQUIPMENT	
	Quantity & Item	* & X = New 2019
171	2 - insulated fuse pullers, 1 large & 1 small	
172	1 - GB circuit tester	
173	1 - 3/8 hammer drill	
174	1 - Skil 14.4 drill kit, w/ battery & charger	
175	l - Black & Decker bench grinder	
176	1 - Black & Decker hand grinder, 4 1/2"	
177	1 - 115V 3/8 VSR Drill/ Driver	
178	1 - propane torch, elec. Start	
179	1 - strap 1 ton come along	
180	2 - chain come alongs, 1 ton & 3 ton	
181	1 - cable come along, 1 ton	
182	1 - 2 ton floor jack	
183	1 - 12 ton high lift jack	
184	2 - yellow air hoses	
185	1 - 100gal. Portable Diesel fuel tank	
186	1 - Fluke T5-1000 Volt/Amp meter	
187	1 - wheel barrow	
188	1 - garden cart	
189	1 - Garden power 65ft. 5/8" Auto-Retractable Garden Hose reel	
190	1 - portable hand work light	
191	1 - portable work light stand w/ dual mounted lights	*
192	2 - Strong Arm electric winches	
193	1 - AMT 3" trash pump w/wheel kit	
194	1 - 3" 50ft & 1 - 30ft suction/discharge hose w/couplings	
195	1 - North Star 3000 PSI Steam and Hot Water Pressure Washer	
196	1 - Warn 120 volt Winch/Hoist for pulling UV channel basket	
197	1 - Chapin Homepro backpack sprayer	
100	OFFICE INVENTORY	
198	1 - wooden desk	
199	1 - metal desk	
	4 - Office chairs	
	3 - file cabinets, 1 - 4 drawer & 2 - 2 drawer	
	1 - 3 shelf bookshelf	
203	1 - PC, w, speaker in monitor, keyboard, and surge arrestDELL	
	1 - MFC-7360N Brother copier / printer	
10202030	1 - conference table	
	27 - folding steel chairs	
	3 - Phones (cradle style)	
	1 - Fellowes paper shredder	
	1 - Bissell vacuum cleaner	
210	1 - Emerson TV / VCR Combo (for training)	
211	1 - Emerson microwave	

		* & X = New 2019
212	1 - Magic chef refrigerator	_ CC A - New 2019
213	1 - Culligan water cooler	
	CONSUMABLE MATERIALS	
214	2 - 500 Gallon propane tanks, w/ 515 gallons as of 1/6/20	
	VEHICLE'S	
215	1 - TRYN SP-575X-1 Mini Pro Tailgate Spreader SN#190730300540SP-5752	X
216	1 - 2018 Ford F-250 w/Knaplied snow blade vin# 1FTBF2B66JEC64283	
217	1 - 1994 Volvo White GMC Sludge Truck vin# 4V2JCBE75R833094	
218	1 - 1985 GMC 4 Wheel Drive Field Truck vin# 1GDL7D1YDV529996	
219	1 - Kabota ZG123S 48" Zero-Turn Mower	
T. 31	LABORATORY EQUIPMENT	
	Quantity & Item	
220	1 - OHAUS adventurer analytical balance	
221	1 - Orion & 1 no name brand bench top electrode arms	
222	1 - USA Bluebook electric stirrer	
223	3 - Isco Auto samplers, 1 - NI-CAD batteries, 1 small & 1 larger charger	
224	1 - Isco Auto sampler pump	
225	1 - Hach Sension+ MM340 Ammonia meter* & probe*	X
226	1 - Hach HQ411D pH/mv meter & probe with stand	
227	1 - Allied stirrer and hot plate	
228	1 - Vector spotlight, for discharging Isco batteries	
229	2 - VWR ASTM certified / calibrated thermometers	
230	2 - Nalgene desiccators	
231	1 - muffle furnace-Therolyne	
232	1 - vacuum pump-Fisher	
233	1 - sterilizer-Electric Steno Clave	
234 235	1 - centrifuge-IEC centrifuge, not in use	
	1 - Incubator-Fisher ISO temp	
236	1 - drying oven-Fisher ISO temp oven	
237 238	1 - portable D.O. meter-YSI 550-A	
239	1 - BOD meter & probeYSI 5905, not in use, obsolete	
240	1 - BOD Incubator- Fisher low temp model 307	
241	1 - microscope-Micromaster	
241	1 - Lab refrigerator-Marvel Division	
242	2 - timers-West Bend	
243	1 - Hanna portable pH meter	
244	2 - Hach HQ40D meters, 1 with LBOD probe* & 1 w/ Rugged LDO probe*	X
246	1 - Hach Distillation Glassware set for Ammonia	
247	1 - Thermo Hot plate for distillation	
24/	2 - Igloo Ice Maker for Samplers	

SAFETY EQUIPMENT

Item No.	Quantity & Item	* & X = New 2019
248	15 - Safety Glasses / Goggles	- CO 11 11CW 2017
249	2 - Face Shield	
250	2 - UV Face shields	
251	4 - Rubber Gloves	
252	25 - Disposable Gloves	
253	6 - Dust Mask/Respirators	
254	2 - Ear Protection muffs & 6 pair disposable ear plugs	
255	1 - Eye Wash Stations	
256	2 - Back Supports	
257	1 - Gas Detector / Monitor, portable RKI GX-3R*	X
258	1 - Lock Out/Tagout Station	A
259	2 - Full Body Harness	
260	2 - Lanyards	
261	1 - Tripod and Winch	
262	3 - First Aid Kits	
263	6 - Fire Extinguishers, Plant	
264	1 - Fire Extinguishers, Office	
265	3 - Fire Extinguishers, Vehicles	
	SPARE EQUIPMENT & PARTS	
266	4 - electrical contact relay for pista grit*	X
267	1 - 3 phase monitors for lift stations	24
268	3 - Allen Bradley PLC I/O Boards for UV control panel	
269	60 - UV bulbs	
270	57 - UV quartz sleeve - 20*	X
271	3 - UV ballast	A
272	2 - UV air cylinder rebuild kit & 2 outer bands	
273	2 - New UV air cylinder	
274	1 - UV air cylinder hose, approx. 20 ft.	
275	15 - Wiper Rings	
276	1 - UV bulb cord w/6 bulb sockets	
277	1 - Blue Poly tubing for outdoor UV panel 5ft 6mm & 5ft 10mm	
	4 - UV sensor brushes	
279	1 - blower for digesters	
280	1 - Vac pump rebuild kit for 1600 gal Field Gymmy sludge truck	
281	1 - Carboy for BOD water	
282	l - electric cylinder valve for back of sludge truck	
283	l - Fluorescent bulb ballast & 20 T-8 bulbs	
284	I - quantity of assorted 3/4, & 1" PVC pipe fittings	
285	I - quantity of assorted nuts & bolts	
	l - Transtector ACP-100 surge suppressor	
	- Transtector PDS 1 tube surge protector	
	- Alternating relay for lift stations	

The Lake of the Ozark Regional Wastewater Treatment Plant #1

Emergency Response Plan, Emergency Operations Plan, Emergency Action Plan, and Fire Protection Plan

January 2020

Purpose

The purpose of the Emergency Response Plan (ERP) is to provide for an organized response to an emergency situation at the Lake of the Ozarks Regional Wastewater Treatment Plant #1 (WWTP). The primary emphasis in the ERP is to minimize risk to public health, and to minimize damage to private and public property. The secondary emphasis in the ERP is to provide the best possible wastewater treatment in the event of an emergency situation.

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Preliminary Damage Assessment Checklist

Call key plant personnel, starting with Contact Order on page 3 of this ERP. Determine need for additional personnel.
Notify fire department if appropriate.
Identify person in charge at the site.
Make preliminary site evaluation, determine extent of physical and operating damage. (Check piping, pumps, basins, structures, look for seepage, leaks, cracks, landslides, broken pipes and drains).
Check for downed power lines and propane gas odors and notify Ameren UE if necessary.
If damage appears intentional, notify police (site may be a crime scene).
Take steps to keep public safe, use barricades, etc. Remove obstacles that will prevent emergency vehicle access.
Person in charge should contact key Joint Sewer Board Representatives to inform of situation and discuss further anticipated notifications.
If environmental damage is likely, notify MDNR.
If public health is at risk, notify local health department.
Develop mitigation and recovery plan.

Section I

A. Personnel Inventory, Contact Order & Training

1: Personnel Inventory

Name	Title	Office Phone	Home Phone	Mobile Phone
Gary Hutchcraft	Local Manager II	573-365-0455		573-216-8398
John Hornback	Supervisor	573-365-0455	573-369-2761	573-480-4065
Darren Shenkel	Utiltiy Worker I	573-365-0455		816-215-5550
Gary Johnson	Division Manager	573-874-8080	573-234-7946	314-581-6024
Mark Mahler	Director of Compliance & Safety	573-874-8080	Ext. 226	573-825-8169
Tony Sneed	Director of Operations	573-874-8080	Ext. 203	256-278-1264
Tim Geraghty	AWR President	573-874-8080	Ext. 229	314-575-4738

2: Contact Order

Contact Order	Corporate Office Contact	Division Contact	Outside Support Contact
1 2		Gary Hutchcraft	
3		John Hornback Darren Shenkel	
4		Darrett Stierikei	Lonnie Madole
5			Kevin Klein
6			Josh Thompson
7	Gary Johnson		Tooli Million pooli
8	Tony Sneed		
9	Tim Geraghty		
Client	Jenna Woods		
Contact:	Matt Michalik		

3: Annual Staff Training Goals

- CPR First Aid
- Confined Space Entry
- Vehicle Safety Defensive Driving
- Hazard Communication
- Work Area Protection Traffic Around Job Sites
- Lockout Tagout

- Back Safety/Lifting Methods
 Respiratory Protection
 Emergency Action and Fire Prevention

4: Emergency Response Plan shall be reviewed and updated on an annual basis

B. Facility Emergency Equipment Inventory

1. Communications

a. Cell Phones

The following Cell numbers have been assigned to staff:

Gary Hutchcraft	573-216-8398
John Hornback	573-216-3878 (duty phone)
Darren Shenkel	573-216-3878 (duty phone)

b. Telephones

WWTP Plant Voice	573-365-0455
WWTP Plant Dialer	573-365-0455
WWTP Duty Cell	573-216-3878

2. Safety Equipment

- a. Full body harness (2) (Admin. Bldg.)
- b. Lanyard & spreader bar (Admin. Bldg.)
- c. Tripod and hoist (Admin. Bldg.)
- d. 4-gas Drager X-am 2000 gas detector (Admin. Bldg.-office)

3. Other Equipment

- a. Ford 6" trash pump, City owned (Lake Ozark)
- b. 60' of 6" suction hose, City owned (Lake Ozark). 60' of 4" suction hose w/ 4 to 6" adapter.
- c. AMT 3" trash pump, w/ 30' and 50' hoses w/ quick couplers.
- d. Dodge Dakota, 2WD pickup truck w/ tire chains.
- e. Volvo White GMC Sludge pump truck w/ 3700 gallon tank.
- f. GMC 4 Wheel drive Field pump truck with 1600 gallon tank w/ 20' of 6" suction hose.
- g. Wire feed Welder (1)
- h. Oxygen and Acetylene torch set w/ 50' hose.

C. Command Post Designation

- The command post for the WWTP shall be in the Administration building-office at the WWTP. If conditions make this impossible, then the command post shall be located at a designated site provided for by the Joint Sewer Board.
- All communications shall be coordinated through the City.

D. Communications Policy

1-Report all emergency situations (if possible), to Gary Hutchcraft

If Gary cannot be contacted, then call the people on the following list until someone is notified of the emergency situation.

		Work	Mobile	Home
0	Darren Shenkel	573-365-0455	816-215-5550	
•	John Hornback	573-365-0455	573-480-4065	573-369-2761
0	Lonnie Madole	573-378-5737	573-789-5242	
	Kevin Klein	573-378-5737	573-378-8510	
	Josh Thompson	573-364-8790	573-308-6229	573-762-9941
	Gary Johnson	573-874-8080x275	314-581-6024	573-234-7946
6	Tony Sneed	573-874-8080x302	256-278-1264	0.020.7070
	Tim Geraghty	573-874-8080 x229	314-575-4738	

What qualifies as an emergency situation?

Generally speaking, an emergency situation can be anything that has the potential to cause danger to human health, and or damage to property. We can easily extend the meaning of an emergency situation to be anything that has the potential to cause damage to the environment. The practical application thus being: an emergency situation is any situation that has the potential to cause a violation of the NPDES permit.

The NPDES permit is a combination of both numeric and narrative standards that are developed to protect the designated uses of the stream that the Lake of the Ozarks Regional WWTP #1 discharges into. The permit also contains standards that cover wastewater discharges from the collection system.

The following outline lists some (not all) of the situations that qualify as an emergency situation that should trigger notification.

Surcharge

Wet Weather

Dry Weather

Loss of treatment

Power Fail

Equipment damage

Toxic Shock

Short Circuit

Sabotage

- 2 In an emergency situation the following information shall be communicated:
 - What has been damaged.
 - If no damage, why is there an emergency,
 - Is there a threat to public health,
 - Is there damage to public and/or private property.
 - Has treatment been affected.
 - Are NPDES permit violations occurring,
 - Will NPDES permit violations result from the emergency,
 - Are there any safety issues due to the emergency,
 - Are help and/or equipment needed to eliminate the emergency?

3-The MODNR will have to be contacted when Section B, 2A-B, (noncompliance notification standards, published in the 'Standard Conditions for NPDES Permits'), have been reached. A copy of these standards is included in the text of this plan on page 24. Follow the directions listed in the 'notification standards'.

MODNR Southwest Regional Office

Phone: 1-417-891-4300 or Environmental Emergency Response 1-573-634-2436

2040 W. Woodland Springfield, MO 65807

Always notify the Joint Sewer Board and Corporate before MODNR notification. When notifying the MODNR always record the name of who you are talking to, and the time and date of the notification. Give the following information: what the violation is per notification standards, and what our actions are to eliminate the violation. Be factual; do not assume anything. Finally, find out if the DNR requires written notification concerning the violation.

In the 2 drawer file cabinet by the copier, the file that is marked "DNR Bypass forms" there are two report forms that need to be filled out in any bypass situation, and/or any operations - treatment emergency that reaches notification standards. One report form (Wastewater Bypass Report Form) is for the MODNR, and the other report form (Deviation Notification Form) is for AWR corporate. These forms are also included in Appendix 8 of this manual.

E. Emergency Action Plan

- Procedures for reporting a fire or other emergency situations.
 - 1. Call 911 and report the situation
 - 2. If the land line phones don't work, try cells and direct connects
 - 3. Determine if a response is safe and or necessary
 - 4. Determine whether or not evacuation is necessary
- Procedures for emergency evacuation including type of evacuation and exit route assignments.
 - If an emergency evacuation is necessary follow the exit routes posted in the buildings.
 - All evacuees shall meet at the main entrance gate, and determine what action needs to be taken, and if support can be given to emergency response personnel.
- Procedures to be followed by employees who remain to operate critical plant operations before they evacuate.
 - If employees need to stay behind to operate critical plant operations, they shall
 establish communications with an employee who has already evacuated.
 Communications shall be on a routine basis with information conveyed relating to
 the safety of the remaining employee, current operation conditions, safety related
 conditions, etc.
 - The employee who stayed behind shall evacuate if life threatening conditions present themselves, or if there is evidence that a condition may become life threatening.
- Procedures to account for all employees after evacuation.
 - As specified above, all employees who evacuate shall meet just outside the entrance gate. An accounting of all employees shall be determined.

Assignments

The on-call operator shall be designated as the employee who stays behind.

2. The local manager shall ensure that communications are being carried out with the employee who stayed behind

The local manager is responsible for making an accounting of all employees.

F. Fire Protection Plan

Assure that hazardous accumulations of combustible waste material are controlled.

Place used rags in the metal used rag container.

2. Keep trash picked up and trash cans empty on a regular basis.

Complete and turn in the required hot work permit for all welding or grinding activities.

4. Keep a 30 minute fire watch after any welding operation has ended.

5. Keep combustible liquids in the storage cabinets. Keep the cabinet doors closed.

Identify high risk areas and develop plans to minimize potential fire hazards.

The highest risk area for fires is in the shop. Plans to minimize the risk of a fire include: use of storage cabinets for gasoline, paints, etc. Use of metal trash cans with lids for the storage of used shop rags. And the control of trash accumulation on the floor and in the trash cans.

	the best did to		ce Hor	WORK PERMIT/ CHECKLIST
Locatio			Date:	Supervisor:
Work to	he dor	ne:		
pecial	Precaut	ions:		
îme St	arted:			190
igned:				Time Completed:
-51100-	(Inc	hvidua! re	sponsible for Hot Work authorization.)	Date:
lefore a	pprova	l of the	Hot Work Permit, the Supervis	ENTION sor or appointee shall inspect the work area and confirm
merchan	recation	OHS HEI	e been taken to prevent fire.	
Yes	No	N/A		Precautions
		-	Is all cutting and welding equ	ipment in good repair/ condition?
		<u> </u>	Has pre-task Tool Box Talk I	peen administered?
Yes	No	N/A		Within 25 Feet of Work
			Floor/ ground clear of combu	stibles if possible?
			Combustible floors wet down	, covered, or shielded?
			No combustible material or fl	ammable liquids?
		<u> </u>	Combustibles and flammable	liquids covered or shielded?
Yes No N/A		N/A	Wor	rk on Enclosed Equipment
			Equipment cleaned of all com	bustibles?
			Cantainare / Amount and 1	
			Containers/ urums purged of	flammable vapors/ materials?
	No	N/A	Containers/ drums purged of	flammable vapors/ materials?
	No	N/A		Fire Watch
Yes	No	N/A	To be provided during and 30	Fire Watch minutes after work completion?
Yes x	No	N/A	To be provided during and 30 Supplied with fire extinguishe	Fire Watch
Yes X X	No No	N/A N/A	To be provided during and 30 Supplied with fire extinguishe	Fire Watch minutes after work completion? or and or small charged fire hose?

G. Emergency Identification and Analysis

Emorgane	A 1 .
Emergency	Analysis
Severe storms, high wind, lightning,	 Damage can range from low to medium depending on severity of storm.
floods.	 Electrical supply, electrical pathways, exposed equipment and equipment located in underground vaults (when flooding is a concern), are most susceptible to damage.
Severe cold, ice storms, blizzards.	 Damage can range from low to medium depending on severity of conditions.
	 Temperatures below -15° F are cause for emergency response with outside equipment and with buildings that require additional heat to protect equipment with exposed moving parts. In these conditions always make sure the lift stations lids are closed. Ice storms and blizzards can cause damage to the electrical supply and also hinder access to the Wastewater Treatment Plant.
Earthquakes.	 Damage can range from low to high.
Section (Control of the Control of t	 A major earthquake has the potential to cause extensive damage to all phases of wastewater collection and wastewater treatment since a lot of equipment is located underground. Damage can also occur in weak links of a collection system or weak areas of concrete basins, which may not be apparent by visual observation.
Sabotage, civil unrest, riots, terrorist attacks.	 Damage can range from low to high on electrical supply, and any equipment that is exposed and can be easily damaged (i.e. bar screen, electrical control panels, lift stations, lab-office
	 building equipment, etc.). Measures to prevent damage from terrorist attacks are detailed in the following section on facilities security.
Air borne chemicals, water borne chemicals, toxic chemical spills,	 Damage to bacteria mass in the treatment process, and can also affect health of treatment personnel. Caution should always be taken when confronting a chemical -biological emergency.
weapons of mass destruction.	 If weapons of mass destruction are suspected to have caused the emergency, then treat the affected area as a crime scene and call local authorities.

H. Facilities Security:

The following topics should be analyzed and developed to increase security to its highest Level at the WWTP:

- 1. Detection (the ability to detect a security threat),
- 2. Access (deter access to the WWTP),
- 3. Delay (provide a layered barrier system to delay access to the WWTP)
- 4. Respond (develop an organized response to a breach in security)

Priority Equipment and Processes.

The following list is a list of equipment and/or processes in the order of relative importance to the wastewater treatment process. The list shall be used as a guide when determining what equipment and/or processes need to be placed into service first, second, and so on, when there is a widespread emergency. The list is organized into two categories: WWTP mechanical (piping and valves), and equipment (which includes structures).

Mechanical	Treatment Equipment		
Raw sewage force mains to WWTP.	Oxidation Ditches (at least one aerator per unit that WW is entering)		
2. Gravity thru Oxidation Ditches.	2. Final Clarifiers (1,2 & 3).		
3. Gravity mains from oxidation ditches to final clarifiers splitter boxes.	3. Adjustable weir gate valves at basins		
4. Gravity to Clarifiers.	Adjustable weir gate valves at splitter box for Clarifiers		
Sluice gates in Oxidation Ditches and UV channels for draining purposes	5. Lift Station between aeration basins		
6. RAS force main back to Ditches	RAS electric pinch valves in middle room cheadwork's bldg.		
7. RAS waste from clarifiers	7. Waste valves		
Sludge waste force mains to sludge storage cells.	8. Waste valve pit and waste manhole on top of hill and at bottom by Digesters		

- J. Emergency Response Guidelines.
 - 1. General Guidelines.
 - Analysis and Planning. If time permits conduct an initial meeting with staff
 to assess an expected emergency situation. Outline potential damage to
 specific equipment, processes, or structures. Plan a strategy to prevent
 potential damage and/or minimize its effects on public health, property, and
 wastewater treatment.
 - Inspect. After the onset of an emergency, inspect WWTP for damage.
 Follow all applicable safety regulations and lock out and secure any unsafe areas.
 - Communicate. Document damaged units, and unsafe areas. If damage creates immediate threats to public health, properties, and/or wastewater treatment, contact Joint Sewer Board, AWR, and State; to advise of situation. Consult communications policy on page 4.
 - React. Execute activities to eliminate threats to public health, property, and/or wastewater treatment. Refer to 'Damage and Response' section of this plan to help direct the activities. Collect necessary samples, as NPDES permit requires. Develop best treatment plan in the event of an emergency that disables one or several process units. Contact City's for emergency purchasing authority. Contact vendors for needed supplies.
 - Communicate. Update the Joint Sewer Board, AWR, and State as needed.
 Log important observations and actions.
 - Repair. Make necessary repairs to bring damaged units back up to full operations.
 - Review. Review emergency response with staff and make adjustments in the ERP if necessary.

In a widespread emergency, AWR staff will be required to assist the Joint Sewer Board. In this situation, one staff member (two staff if there are safety concerns), will be responsible for implementing the initial steps of the above guidelines.

Section II

Damage and Response

Damage to the WWTP can result in threats to public health and/or damage to private or public property. Damage can also result in an interruption of wastewater treatment in various degrees. The WWTP are constructed of several process units that are linked together to convey and treat the wastewater. This section looks at the possible effects of damage to these process units, and what type of responses can be made to limit the threat to public health, property damage, and the continuation of wastewater treatment.

Process Unit:

Main Power Supply

Key Components:

3 phase power lines from sub, pole and pad mounted transformers feeding MCC1 which feeds MCC2. When power goes out the standby/backup generator will automatically come on and feed both MCC1 & 2 but everything will not come back on automatically. Manually restart all equipment that was going before outage if capable following every precaution mentioned in this ERP.

Effects of Damage

Power lines-

- In severe cases one or all of the power lines can be severed which will result in power loss to the WWTP.
- If power lines are severed upstream from the pole or pad mounted transformers then power loss will affect MCC1 & MCC2
- Power loss of more than 8 hours has the potential to cause the ditches to go septic and the sludge in the clarifiers to surface and bulk and/or cause a violation of permit limits.

Transformers-

 Loss of one or more of the pole or pad mounted transformers will cause power loss to MCC1.

Response

Power lines-

- Call Ameren UE and find out how soon they can make it out. Once you have a response
 then call the Local Manager and inform, then let him make the decision on what to do
 next.
- At the least the employee on emergency Duty must stay until Ameren UE restores power
 or a relief operator shows up to relieve him and once power is restored bring one piece of
 equipment back on line at a time.

Transformers-.

 Checks to see if fuses have blown or flipped down on the pole mounted transformer by the main power control room at the Headwork's Bldg. and inform Ameren UE of it. If that is what it is then, it will be an easy fix for them. Never try to attempt to flip fuses back up on your own, Let Ameren UE do it.

Process Unit:

Head Works

Key Components:

MCC1 and MCC2 control power and control equipment (unit specific), mechanical bar screens, grit chamber, grit solids pump, RAS pumps, non-pot and potable pumps.

Effects of Damage

In general-

 In any case, if damage is severe enough to disrupt either the mechanical bar screen, and/or the grit chamber/grit solids pump; both units can be bypassed. This condition is acceptable for a few days.

Response

In general-

- If units must be bypassed, do so immediately by placing a stop gate in its appropriate positions; this job requires two people.
- Install the manual bar screen as needed.
- Do not allow flow into the grit chamber if the paddle drives, grit solids pump, are not working, for more than couple of days.
- If damage results in the loss of the heater then emergency heating needs to be set up in sub-freezing weather.
- Pump out the grit chamber if it will be out of service during sub-freezing weather and are experiencing icing conditions.
- If necessary, also pull the Auto bar screen up and install manual bar screen; this will require getting in influent channel and hooking come-along to eyelets on bottom of bar screen and lifting it up out of the way so you can install the manual screen. This job requires at least 2 people.
- When bringing units back into service the mechanical bar screen shall receive top priority over the grit chamber, grit solids pump.

Process Unit:

Secondary Treatment

Key Components:

MCC1 and MCC2, aerator control box, control power and control equipment, oxidation ditch 1, and oxidation ditch 2.

Effects of Damage

In general-

- MCC1 power center is utilized to operate the aeration equipment.
- The most critical aeration equipment are the motors and gear boxes that drive the Carrousels. At least one should be in operation at all times.
- Loss of the oxidation ditches will result in at least a 60% reduction in treatment.
- Loss of air to the bacteria in the oxidation ditches for more than: 4 hours in the summer, and 24 hours in the winter, will create anoxic conditions and could possibly kill the bacterial population.

Response

In general-

- The oxidation ditches can, (one at a time), be isolated from the WW treatment process.
- If all aeration equipment is down make arrangements to get a minimum of one carrousel per ditch in operation ASAP.
- Note: If there has been a toxic spill in the collection system, one of the oxidation ditches
 can be made ready to accept the toxic waste, and then taken out of the process to further
 treat the toxic waste.
- If bacterial population is killed, plan to get seed from Camdenton or other surrounding communities.

Process Unit:

Clarification

Key Components:

Clarifier splitter box

MCC1 feeds MCC2.

Final clarifiers 1, 2, 3

Control power and control equipment.

Clarifier drive units, skimming mechanism, scraper mechanism, sludge withdrawal, RAS pumps, RAS force main, WAS force main, and clarifier gravity drain

Effects of Damage

In general-

- Severe cold is the most likely threat to damage the clarifiers.
- Earthquakes could cause considerable damage to underground piping.
- There is one inlet line and one drain line on clarifiers #1 and #2, with no drain on #3, so it
 is appropriate to state that any damage to underground piping could result in total
 disruption to the function of the clarifiers.
- Damage to sludge withdrawal equipment will disrupt the return of sludge to the oxidation ditches and thus stockpile the sludge in the affected clarifiers.

Response

In general-

- In severe cold, the skimming mechanisms should be modified to minimize potential damage to the skimmer arm/rake mechanism.
- A means of maintaining surface water disturbance (i.e. water sprays) is necessary to keep the surface from forming thick ice.
- Constant attention shall be given to the clarifiers during extreme cold conditions.
- Emergency pumping may be required to remove sludge from the clarifiers. This can be accomplished with the sludge pump truck on a routine interval. Clarifiers 1, and 2, should be placed back into service first.
- Note: Clarifier 3 cannot be drained dry by means gravity drain mains; it has to be pumped dry by RAS pumps.

Process Unit:

RAS Pump Building (basement)

Key Components:

MCC1 feeds MCC2, control power and control equipment, discharge piping, and check valves, discharge valves, force main, pumps/motors.

Effects of Damage

Main power-

 Will disable pumps and may lead to the stockpiling of sludge in the clarifiers. If left unchecked sludge can be discharged into the receiving stream.

Control power, control equipment-

 Will disable pumps in the automatic mode. Pumps can be operated manually (unless control transformer is damaged).

Piping and valves-

Damage will inhibit operation of pumps.

Pumps and motors-

- Can disable one or all pumps.
- There are five pumps in the RAS pump building, which should greatly minimize the chance of losing total pumping capacity.

Response

Main power-

- If there is a power loss feeding the pump building then check to see if you have lost a leg of your 3 phase power in MCC2?
- If there is an interruption of main power within the control panel then isolate the problem (motor starter contacts, thermal overloads, fuses, etc.) and correct.
- Be aware that high amps indicate a motor overload (shorted windings, bad bearings, pump obstructions, etc.), and should be corrected before placing any motor back into service.

Control power, control equipment-

- If pumps operate on hand but not on auto then there is a problem with either the control power and/or the control equipment.
- Check control voltages.

Piping and valves-

- If there is damage to suction piping and/or check valves, then the damage shall be repaired, (ASAP if all pumps are affected; emergency pumping may have to be provided in this situation).
- If damage to piping and valves occurs downstream from the check valve, the damage should be repaired as required to allow RAS to be conveyed under pressure.

Pumps and motors-

 If all pumps are disabled then isolate the problem with each pump and plan corrective action based on which pump can be repaired the fastest. Make repairs to that pump then proceed to the next, etc.

Process Unit:

Sludge Digestion and Sludge Storage

Key Components:

Motor control center at digesters, positive displacement blowers air suction and discharge piping, air distribution piping and diffusers, sludge loading station, force main(s), valves.

Effects of Damage

In general-

- Damage will most likely have a minimal effect except in a situation where the sludge basins are discharging sludge.
- Loss of aeration will turn the sludge basins into facultative storage.
- Long-term loss of air may damage the diffusers.

Response

In general-

- If the sludge basins are discharging sludge then action should be taken immediately to contain the sludge and prevent it from reaching the receiving stream.
- If flood conditions exist, let water recede and then evaluate the situation. If sludge spill takes place fill out MODNR SSO/Bypass and AWR Deviation Notification forms, found in (Appendix 7). Make needed repairs and get back on line ASAP.
- Loss of air should be addressed as time permits.

Section III

Contingency Plans

Contingency Plan for Total Loss of Electrical Power

Goal: Develop strategies and to assign specific duties to plant staff: to provide for continuance of pumping at critical points of Plant; and to provide for at least primary treatment at the wastewater plant.

Response

- The employee on call must come to the plant and make sure the generator is going, then get into service one aerator in each ditch and at the minimum 2 clarifiers depending on flow conditions.
- Get into service the head works building equipment.
- 3. In below freezing weather check to make sure heaters in all buildings are operating properly.
- 4. Check to make sure that lift stations are operating properly.
- Check status of wastewater plant.
- Check all lift stations, secure by taking one of the two pumps off line, and providing emergency pumping if needed.
- Conduct a meeting to evaluate the situation and make necessary decisions as the need arises.

Contingency Plan for High Flows

Goal: Minimize solids wash out and provide for best treatment of all influent flow.

Note: During a high flow event both oxidation ditches will be needed to prevent solids wash out.

Response: Response depends on whether one ditch is in service or if both ditches are in service. Great care must be used when, at the onset of high flows, that sludge blanket depths are monitored. If sludge blankets are rising then several options present themselves, first, more clarifiers can be placed into service, if any is out, second, #1 and #4 carrousel aerators can be shut off reduce mixing in the ditch (es), third, #3 and #6 can be taken out of service to further reduce mixing in the ditch (es), fourth, all aerators can be taken out of service (for short periods of time, i.e. up to 8 hours) to eliminate mixing in the ditch (es). Or a combination of the above measures can be used. The overall goal is to save the mixed liquor suspended solids (mlss) in the ditch from being discharged in the receiving stream. Past high flow events have

demonstrated that proper management of flow through the plant can achieve good treatment (within NPDES permit standards). It is also important to note that effluent sampling should be done during high flow events to assure that NPDES permit standards are being met, and that proper documentation in the plant daily bench sheet must be maintained on all process changes to manage high flows. Whenever all the carrousel aerators are shut off to prevent solids wash out the event must be reported as a bypass at the WWTP. Always leave 1 aerator in each ditch going if at all possible, even if it means moving the oxidation ditch inlet gates to aerators #3 and #6 and running only those aerators. This will give the mixed liquor suspended solids (mlss) time to settle in the ditch before entering the clarifiers.

Bulking Sludge

Response:

If a clarifier is bulking sludge and flows are normal for dry weather, first raise splitter box gate to the clarifier or clarifiers that are bulking, then go over to the RAS pinch valve and open them up all the way and if that doesn't calm things down then go down in the RAS basement and clean pumps.

If the pumps are not clogged but is flowing clear water then there is probably a short circuit in the clarifier caused by structural damage of the rake mechanism. Shut flow off to the clarifier and drain it and check for damage. Put other clarifiers (if one is down) on line as appropriate.

If the pump is not clogged and the discharge is dirty, then check the other clarifier to see if it is bulking as well. There could be a toxic shock. First try shutting the aerators off closest to the outlet weir gates and if that doesn't work try moving the basin inlet gates to, (#3 and #6) and running only those aerators, will minimize solid loss, and may be an appropriate response.

Contingency Plan for Toxic Chemical Release

Toxic chemical release to the wastewater treatment plant will most likely take place in one of two forms, regardless of the toxic agent.

The first likely scenario would be the discovery, containment and cleanup of a fuel leak. This would involve participation of Lake Ozark Fire Department, Lake Ozark Emergency Response personnel and a HAZMAT unit. In order to accept this type of waste a few conditions must be met: first, the BTEX test result (if available) should be less than 2.13 mg/l; and second, the plant is operating under dry weather flow conditions. If both conditions are met then the waste can be placed into one of the basins that has been determined to be used for that purpose. The waste can then be diluted and intermittently fed into the treatment process to minimize shock on the biological community in the treatment process. Bench testing of the waste can also be performed to demonstrate if there will be problems to the bacterial community.

The second most likely scenario would be notification of a toxic release into the sewer system. This has never happened (at least the notification part) but if this condition should arise then the most likely first response would be to divert all flow to the designated basin. The second step would be to ascertain what type of toxic chemical it is (ask for MSDS information) and how much of the toxic chemical is in the system. The third step would be notification of City or Cities, Corporate and MODNR. With data available try to estimate when the chemical will arrive at the treatment plant and how long it will take to flush the chemical from the sewer system. This information will determine the length of time all flow will need to be diverted before it is safe to resume normal flow. Again, the availability of taking one basin off line will allow temporary containment (provided dry weather flows) and the ability to further treat the chemical and either release the chemical into the treatment process or allow for its removal and disposal at another location.

Contingency Plan for SSO's

SSO's can occur in both wet and dry weather.

Wet weather SSO's are usually caused by inflow and infiltration (I&I) of storm water into the wastewater collection system. A high rate of I&I can cause hydraulic overloading in the collection pipes and thus create an overflow in a manhole or a lift station.

Dry weather SSO's can occur due to collection pipe blockages, long term power fails, and /or lift station pump malfunction.

Whenever an SSO is observed use the Missouri Department of Natural Resources Wastewater Bypass Report Form (Appendix 7), along with the Deviation Notification Form (Appendix 7) to record the SSO event. Copies of these reports must be kept on file along with daily and monthly reports file. Wet weather bypasses at the WWTP are reported on the monthly monitoring report, and filed accordingly.

When bypasses occur at the treatment plant (flow discharged from the WWTP without proper treatment, and/or all aerators are shut off), then document the bypass in the plant daily bench sheet and start the effluent composite sampler. Bypasses from WWTP shall be noted on the monthly DMR, Daily bench sheet and Plant log book; until further notice.

Contingency Plan for Sludge Spills

Whenever sludge spills occur, documentation and cleanup services must begin immediately.

Documentation -

- Describe in the log book the location, cause and amount of the sludge spill.
- If the spill is greater than 25 gallons then treat the spill as a bypass and fill out the necessary documents (Appendix 7) and report the incident to the control authorities.

Clean Up -

- Treat spill area with lime
- Remove spilled material and dispose at the WWTP.
- If spill occurs on a public road way then use appropriate traffic control and warning signals as necessary

Appendix 1

Local Radio Stations

Frequency	Location	Phone#	Fax#
AM 1150			гах#
FM 93.5	и и и		
FM 92.7	te te te		
FM 95	Versailles MO		573-378-6640
	FM 93.5 FM 92.7	AM 1150 Osage Beach, Mo FM 93.5 " " " FM 92.7 " "	AM 1150 Osage Beach, Mo 573-302-7000 FM 93.5 " " 573-348-2779 FM 92.7 " 573-302-1993

Local Television Stations

Call Letters Channel Location Phone# KMOS PBS 7 Warrensburg, MO 573-543-4155 KRCG CBS 13 Jefferson City, MO 573-896-5144	g, MO 573-543-4155
KDCC CDC 40 L W	2
5/3-896-5144	31 0
070 000-0144	

Local Newspapers

Name of Paper	Address	Contact Person	Phone#	Fax#
Lake News Focus	5107 Hwy. 54 Osg Bch		573-348-6050	
Lake Sun Leader	450 N. Hwy. 5 Camdenton	Justin	573-346-2132	
Eldon Advertiser	415 S, Maple St., Eldon	000011	573-392-5658	
Leader-Statesman	104 W. Jasper, Versailles		573-378-5441	
Westside Star	400 N. Main St., Grvs Mls		573-374-3100	

Systems Personnel

Name	Position	Work Phone#	Mobile Phone#	Home Phone#
Gary Hutchcraft	Local Manager II	573-365-0455	573-216-8398	
John Hornback	Supervisor	573-365-0455	573-480-4065	573-369-2761
Darren Shenkel	Utility Worker I	573-365-0455	816-215-5550	373-309-2701
Gary Johnson	Division Manager	573-874-8080	314-581-6024	573-234-7946
Mark Mahler	Director of Compliance & Safe	573-874-8080 x226	573-825-8169	313-234-1940
Tony Sneed	AWR Director of Operations	573-874-8080 x203	256-278-1264	

City Personnel

Name	Position	Work Phone#	Mobile Phone#
Jeana Woods	City Admin. Osage Beach	573-302-2000 ext. 1010	573-280-1174
Chad Stark	Osage Beach Sewer Foreman	573-302-2000 ext 2006	573-280-2473
Dave VanDee	City Admin. Lake Ozark	573-365-5378	573-280-6992
Matt Michalik	Dir. P/W Lake Ozark	573-365-5378	573-216-6063
L.O. Police Dept.		573-365-5371	0.02100000
O.B. Police Dept.		573-302-2010	

City Engineer

Name	Company	Work Phone#	Mobile Phone#	Fax#
				I WAIT

Sewer Board

Position/Department	Work Phone#
	573-302-2000
	573-302-2000
Board Member / Osage Beach	573-302-2000
	573-365-5378
	573-365-5378
	Position/Department Mayor / Osage Beach Board Member / Osage Beach Board Member / Osage Beach Mayor / Lake Ozark Board Member / Lake Ozark

Local and County Authorities

Name	Position	Phone#	Fax#
Lake Ozark Fire Dept.		573-365-3380 or 911	573-365-3758
Osage Beach Fire Dept.		573-348-1221 or 911	070-000-0700
Miller Co. Sheriff Dept.		573-369-2341 or 911	
L.O. Police Dept.		573-365-5371 or 911	
O.B. Police Dept.		573-302-2010 or 911	
Miller County Health Dept.		573-369-2359	
Camden County Health Dept.		573-346-5479	

Local Ambulance Service

Phone#	Emergency #
573-302-2010	911
573-369-2444	011
	573-302-2010

System Maps/Drawings

Name	Position	Work Phone#		Home Phone#
Gary Hutchcraft	Local Manager	573-365-0455		Home I none
	Osage Beach	573-302-2000		
Matt Michalik	Dir. P/W Lake Ozark	573-365-5378	573-216-6063	

Local Utilities/Services/Suppliers

Service	0 / /			
	Contact	Company	Phone#	Mobile Phone
Phone	Bruce	AT&T	800-286-8313	573-286-0954
Electric	Brent	Ameren UE	800-552-7583	573-694-5914
Propane		Ferrell Gas	573-392-5400	573-280-7184
UV System	Walt Williams	ITT Wedeco	704-409-9818	
Standby Generator	Nelson Coblentz	Martin Energy Group	800-436-9190	573-681-8027
Laboratory	Colleen	Pace Labs	913-563-1406	
Electrician	Steve Durban	Aesthetix Electric	573-348-1429	573-219-0043
Electrician	Seth Agnew	Catalyst Electric	573-552-8488 ext 2	070-215-0043
Truck Repair	Larry	Roemer Equipment Repair	573-348-3733	
Truck Repair	Monte	Rapid Mobile Repair Ser.	573-346-3217	
Heat A/C	Herb	Controlled Heating & Air	573-348-5455	
Heat A/C & KVAR		Comfort Heating & Cooling	573-348-9999	
Auto Mechanic		Precision Auto	573-348-2233	
Auto Mechanic			573-365-1111	
Instrumentation	Mike Ross	Vandevanter Engineering	636-225-8133	314-422-2872
Instrumentation	Scott Keith	ECCO Electric	573-348-1798	573-524-3399
Electric Motors	Jim	Bowling Electric	573-346-4355	070-024-0099
Pumps / Motors	B.J. Hedrick	Evans Enterprises	417-886-8886	417-844-3607
Pumps / Motors	Ben	JCI / MEMC	573-636-7061	573-694-9555
Clarifiers	Field Service	Eimco	801-526-2000	373-034-3333
Pumps / Motors, Aerator Gear Boxes	Bruce	S & S Electric	573-581-7667	
Backhoe / Dirt Work	Steve Butler	Drain Masters, LLC		573-216-1169
Building Repair	Jeff Carroll	Above & Beyond	573-302-0354	573-286-2006
Building Repair	John	Missouri Builders	573-636-7733	0.0 200 2000
Chemical Supplier	Larry Startin	Brenntag	417-887-3663	417-593-0108
Digester Aerators	Patrick	EDI	573-474-9456	117 000 0100
Truck Tires	Delbert	Purcell Tire	573-348-4010	573-836-0038
Truck Tires	Kevin	McKnight Tire	573-635-0101	573-338-3350
Truck Tires	Correy	Clark Tire	573-374-8854	573-434-4539
Piping Supplies	Justin	HD Waterworks Supply	573-348-1273	0.0 104-4009
Welding Service	Gary Koerber	GL Welding		573-680-3957

Waste Haulers

Source	Address	Phone#	
Amos Septic	Linn Creek, MO	573-346-5992	
Camden County	Lake Ozark, MO	573-374-5850	
Bullock Septic	Laurie, MO	573-374-6688	
A & A Septic	Camdenton, MO	573-346-5123	

Emergency Rental Equipment

Company	Equipment	Location	Contact Person	Phone#
Midway Rental	All Types	Eldon, MO	Jim or Tom Dial	573-392-1611
Lake Lifestyle Rentals	All Types	Osage Beach, MO		573-348-3250
A-B Rental	All Types	Camdenton, MO	ot:	573-346-7700

MODNR Contacts

Names	Office	Phone #	Fax #
Troy Potteiger	Osage Beach	573-348-4103	573-348-2568
E.C. West	Springfield	417-891-4300	417-891-4399
Sieu T. Dang	Springfield	417-891-4300	417-891-4399
Emergency Response	After Hours Call	573-634-2436	417 001 4000

Appendix 2

Chemical List / Facility Map

Chemicals:

Lab Office Building

- Hydrochloric acid
- Sulfuric acid
- Sodium Hydroxide
- Denatured Alcohol
- Weed Killer

Maintenance Room/Shop (located in old Chlorine Tank room) or UV building

- Chevron Gear Lube
- Transmission fluid
- Motor oil, various grades
- Anti-Freeze
- WD-40
- Dry Film Silicone
- Chain Lubricant

Sludge Digester Blower Building

Hydrated bag Lime, 50lb bags

Headwork's Bldg. Storage Room

- Chevron Tube Grease
- Mystic tube Grease
- Hydraulic fluid
- Assorted cans spray paint
- · Assorted cans building and grounds paint
- Paint thinner / solvents

Storage Shed by Admin. Bldg.

- Gasoline
- Weed eater oil

There are two 500-gallon liquid propane tanks located on the property; one is north of UV building and one west of Admin. Bldg. There is a 100-gallon portable diesel tank located normally stored at the sludge digester building over the hill.

Facility Map

