5-21

OSAGE BEACH / LAKE OZARK JOINT SEWER BOARD MEETING AGENDA January 21st, 2025

LAKE OZARK CITY HALL

1. CALL TO ORDER

2. ROLL CALL ROBIN

Mayor, Michael Harmison
Mayor, Dennis Newberry
City Administrator, Harrison Fry
City Administrator, Devin Lake
Alderman, Kevin Rucker
Alderman, Pat Thompson
Public Works Director, Matt Michalik
Member at Large, Gary Hamner
Public Works Manager, Osage Beach, Zachary Wilber

3. PUBLIC COMMENT

Rille I jet

4. MINUTES

Regular Meeting: November 19th, 2024,

3-4

5. REPORTS

Dino Dist		3.21
December 2024		
Revenue Budget Analysis	De .	22
Expenditure Budget Analysis		23
Income & Expense Summary		24
November 2024		
Revenue Budget Analysis	9 .1	25
Expenditure Budget Analysis		26
Income & Expense Summary		27

6. <u>ALLIANCE REPORT OF OPERATIONS</u>

A. Review and discuss ERP & Plant Inventory pg. 100-107

7. APPROVAL OF FLOW CHARTS

8. OLD BUSINESS

- A. Board update.
- B. Capital replacement funding update

9. <u>NEW BUSINESS</u>

- A. Discuss and review waste hauler fee adjustment
- B. Discuss and review year end city reports of connections
- C. Discuss and review future year projections

10. <u>ADDITIONAL DISCUSSION ITEMS</u>

The Alliance Social/get together will be right after this meeting at Wobbly Boots in Osage Beach, in the fireplace room

11. ADJOURNMENT

LAKE OZARK-OSAGE BEACH JOINT SEWER BOARD

Meeting Minutes – November 19th, 2024

CALL TO ORDER:

Mayor Newberry called the meeting to order at 4:00 pm on Tuesday, November 19th, 2024 at Lake Ozark City Hall.

ROLL CALL:

Mayor, Michael Harmison- Absent
Mayor, Dennis Newberry – Present
City Administrator, Harrison Fry - Present
City Administrator, Devin Lake – Present
Alderman, Kevin Rucker- Present
Alderman, Pat Thompson- Present
Public Works Director, Matt Michalik – Absent
Resident Member, Mr. Gary Hamner – Present
Public Works Manager, Zachary Wilber – Present

PUBLIC COMMENT: None

MINUTES:

Alderman, Pat Thompson motioned to approve the meeting minutes from October 15th, 2024. The motion was seconded by Alderman, Kevin Rucker and passed unanimously.

REPORTS:

- Bill List
- Revenue Budget Analysis
- Expenditure Budget Analysis
- Income & Expense Summary

A motion was made by Alderman, Pat Thompson to approve the October Bills List, Revenue Budget Analysis and Expenditure Budget Analysis. The motion was seconded by City Administrator, Devin Lake, and passed unanimously.

ALLIANCE REPORT OF OPERATIONS:

Alliance Report of Operations: The average daily incoming flow for October was 0.958 MGD We had 1.5 inches of precipitation measured at the WWTP .

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD of 1.8 mg/l and TSS of 2.0 mg/l respectively for October which represents a 99.0+% or better removal.

The MLSS average for both serration basins for October was 3,957 mg/l. The total dry weight sludge inventory for October totaled 206,138 pounds. There were 11 loads of biosolids, or

39,600 gallons land applied for October. We received 72 loads of septage or 148,500 gallons in October.

APPROVAL OF FLOW CHART:

Resident Member, Mr. Gary Hamner, motioned to approve the flow charts. The motion was seconded by Alderman, Kevin Rucker and passed unanimously.

OLD BUSINESS:

A. Board Representative Update. Business as usual.

NEW BUSINESS:

- A. Reviewed and discussed adding the following items to 2025.
 - a. Headworks building interior painting, \$12,000 to be added to next year's budget. Alderman, Kevin Rucker made a motion to approve, and it was seconded by Public Works Manager, Zachary Wilber and passed unanimously
 - b. Administration building roof repair/replacement, \$3,000 to next year's budget. Alderman, Kevin Rucker made a motion to approve, and it was seconded by Public Works Manager, Zachary Wilber and passed unanimously.
- **B.** Amendment of the 2024 Budget 4020 Equip & Bldg. Repair Maintenance to increase \$18,450.00, 4175 Electric to increase \$8,500.00, and E/R Expenses to increase \$14,200. A motion was made by City Administrator, Harrison Fry, to approve. His motion was seconded by Alderman, Kevin Rucker and passed unanimously.
- C. Reviewed Proposed Budget 2025 not to include the Grit removal from Aeration Basin#2 in the amount of \$112,500. Resident Member, Mr. Gary Hamner made a motion to approve, and it was seconded by Alderman, Pat Thompson. Unanimously approved.
- **D.** Presentation on Long-Range Capital Needs of Sewer Plant

ADDITIONAL DISCUSSION ITEMS:

ADJOURNMENT:

With no further business to discuss, a motion was made Alderman, Kevin Rucker to adjourn. Resident Member, Mr. Gary Hamner, seconded the motion. The meeting was adjourned at 5:36 pm.

Approved:	
Dennis Newberry, Mayor	Robin Craig, Clerk

JOINT SEWER BOARD BILL LIST JANUARY 21, 2025

OPERATING OPERATING EQUIPMEN EQUIPMEN	ING: S	\$ \$ \$	72,285.24 43,977.35 7,637.80		
		TC	TAL	\$	123,900.39
OPERATIN Account	G FUND BILLS PAID PRIOR TO	O BOARD MEETING: Description:		1	Amount:
4000	Equipment Replacement Fund	•		\$	8,750.00
4020	Tillman Painting	Power Wash & Paint 5 Bldgs.		\$	30,275.00
4020	Smart Printing	Ship Charge for Permit Renewal		\$	123.33
4020	Macgruder Limestone	Rock for Road		\$	1,871.09
4020	Central Mo Serv. Plumb	Repaired Propane Leak		\$	950.00
4020	Menards	Supplies for Clarifier #2 restart		\$	20.31
4020	Menards	Pipe Fitting		\$	1,99
4020	M/C QuickBooks	Accounting Software		\$	35.00
4020	Ovivo USA	Drive Control for Clarifier #1		\$	1,782.44
4020	Pace Analytical	Lab Testing for Permit Renewal		\$	819.30
4020	Woodley Building Main.	Janitorial - December		\$	330.00
4140	Lake Media	RFP - Audit		\$	94.50
4150	JBC Tire LLC	Repair Tire on Sludge Trk		\$	203.45
4170	Alliance Water Resources Inc	December		\$	30,321.00
4175	Ameren MO	11673321		\$	5,121.73
4175	Ameren MO	98041275		\$	87.29
4176	Allied Services	December		\$	81.54
4176	AT&T	December		\$	42.94
4176	Allied Services	January		\$	81.39
4176	AT&T	January		\$	42.94
		Ţ	OTAL	\$	72,285.24
ODEDATU	NG FUND BILLS TO BE PAID:				
	Paid To:	Description:			Amount:
4000	Equipment Replacement Fund			\$	8,500.00
4020		3 Cleaning product		\$	11.42
4020	M/C QuickBooks	Accounting Software		\$	35.00
4020	O'Reilly Auto	Tube Grease		\$	84.90
4020	University of MO Ex.	Soil Sample		\$	132.00
4170	Alliance Water Resources Inc	January		\$	31,079.00
4175	Ameren MO	11673321		\$	4,065.30
4175	Ameren MO	98041275		\$	69.73
				\$	-
			TOTAL	\$	43,977.35
EQUIPME	ENT REPLACEMENT FUND BI	LLS PAID PRIOR TO BOARD ME	ETING	:	
	Paid To:	Description:			Amount:
4000	Professional Metal Fab.	Labor & rebuild gear drive Clar	ifier #2	\$	7,637.80
			TOTAL		7,637.80
EQUIPME	ENT REPLACEMENT FUND BI	LLS TO BE PAID:			
Account	t Paid To:	Description:			Amount:
		•	TOTAL	∟ \$	м



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Account Number 5580005920

Customer Name

ALLIANCE WATER RESOURCES INC

Service Address

3 ANDERSON RD

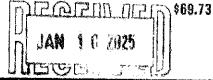
LAKE OZARK, MO 65049

Current Detail for Statement 01/10/2025

Total Electric Charges

\$69.73

Total Amount Due



AMOUNT DUE

\$69.73

Due Date

02/03/2025

Amount After Due Date

\$70,43

Previous Statement

\$87,29

Total Payments

\$87.29

Payment Received, Thank You.

Electric Usage History

Electric Usage in Kilowett Hours (kWh)

3000 2500 2000			· · · · ·										
1500 1000 500 q	JAN 40°F	FEB 30°F	MAR 46°F	APR 51°F	MAY 62°F	JUN 70°F		AUG 77°F	SEP 74°F	OCT 70°F	NOV 80°F	DEC 43°F	JAN 35°F
			•		Aver	ese Monti	ily Tamaa	rature (° F			- ·	100	

Electric Usage Summary (kWh)

So far this year you're using 39.9% more than the same time period last year.

2024 338 kWa

2025

473 kY/h

Keeping You Informed.

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.

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Page 1 of 4

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Amount Due Due Date \$69.73 February 03, 2025 Delinquent Amount After Due Date Account Number 5580005920

Amount Enclosed \$

>004000 2355130 0006 092139 102

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Winter Base kWh				1000,0000				473.0000
Winter Cur Base kWh	l			473.0000				0.0000
Sm Gen Svc - 3 F	h w/Dm	d						**************************************
k Demand								
DESCRIPTION				USAGE	UNIT		RATE	CHARGE
Base Energy Charge				473.00	kWh	@		\$42.29
	Ð			00.0	kWh	Q	\$ 0.05160000	\$0.00
Customer Charge						•		\$23.07
			•	473.00	kWh	@	\$ 0.00229000	30,1\$
		10		473.00	kWh	@	\$ 0.00373900	\$1.77
-, ,				473.00	kWh	@	\$ 0.00204000	\$0,98
Rush Island Retirement	Cost			473.00	kWh	@	\$ 0.00117647	\$0,58
90000	***************************************					Tota	l Service Amount	\$69.73
					959047	Total E	lectric Charges	\$69.73
s Since Previous St	atement				24 B///S			
	SERVICE FROM TO 12/05 - 01/08 12/05 - 01/08 12/05 - 01/08 12/05 - 01/08 Fotal kWh Winter Base kWh Winter Base kWh Winter Base kWh DESCRIPTION Base Energy Charge Seesonal Energy Charge Customer Charge Fuel Adjustment Charge Energy Efficiency Investigation of the companies of	SERVICE NO DAYS 12/05 - 01/08 34 12/05 - 01/08 34 12/05 - 01/08 34 12/05 - 01/08 34 Pary Fotal kWh Winter Base kWh Winter Base kWh Sim Gen Svc - 3 Ph w/Dm DESCRIPTION Base Energy Charge Seasonal Energy Charge Customer Charge Fuel Adjustment Charge Energy Efficiency Investment Charge Renewable Energy Adjustment Rush Island Retirement Cost	SERVICE NO USAGE FROM TO DAYS TYPE 12/05 - 01/08 34 Total kWh 12/05 - 01/08 34 Peak kW Peak kW Sing Gen Svc - 3 Ph w/Dmd DESCRIPTION Base Energy Charge Seasonal Energy Charge Customer Charge Fuel Adjustment Charge Renewable Energy Adjustment	Read SERVICE NO USAGE READING FROM TO DAYS TYPE TYPE 12/05 - 01/08 34 Total kWh Actual 12/05 - 01/08 34 Peak kW Actual Fotal kWh Winter Base kWh Winter Base kWh Sim Gen Svc - 3 Ph w/Dmd DESCRIPTION Base Energy Charge Seasonal Energy Charge Customer Charge Fruel Adjustment Charge Energy Efficiency Investment Charge Renewable Energy Adjustment Rush Island Retirement Cost	READING CURRENT FROM TO DAYS TYPE TYPE READING 12/05 - 01/08 34 Total kWh Actual 12850.0000 12/05 - 01/08 34 Peak kW Actual 30.2770 From Gen Syc - 3 Ph w/Dmd Common Comm	Read	Read	SERVICE NO.

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AMOUNT DUE
Due Dete

Account Number Service Address \$69.73

02/03/2025 5580005920 3 ANDERSON RD

Account Messages

A late payment charge of 1% will be added for any unpaid balance on all accounts after the due date.

Summer Electric Rates - June through September; Winter Electric Rates - October through May.

Please note: If your billing period for this statement spans both Summer and Winter seasons, you will see prorated charges that reflect the different rates for each season.



Rush Island Retirement Cost

Ameren Missouri is acting as the servicer for this Public Service Commission-approved charge for an assignee, who owns the rights to the securitized utility tariff charges related to the Rush Island Energy Center retirement. Based on projections, customers are expected to save about \$85 million over a 15-year period versus standard rates.

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Account Number 4580005832

Customer Name

ALLIANCE WATER RESOURCES INC

Service Address

3 ANDERSON RD, -

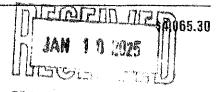
LAKE OZÁRK, MO 65049

Current Detail for Statement 01/10/2025

Total Electric Charges

\$4,065.30

Total Amount Due



AMOUNT DUE	\$4,065.30
Due Date	02/03/2025
Amount After Due Date	\$4,105.95
Previous Statement	\$5 121 73

Total Payments Payment Received, Thank You.

\$5,121,73

Electric Usage History

Electric Usage in Kilowatt Hours (kWh)

150000 120000 80000 60000 30000 0	JAN 40°F	FEB 30°F	MAR 46°F	APR 51°F	MAY 62°F	TON TOO'F	JUL 77°F	AUG	SEP 74°F	DCT 70°F	NOV NOV	DEC 43°F	JAN 35°F	
	-70-1	40 I	45.1	VII		e Menthi	y Tempora	6.5 3	74 F	λή. L	nv-r-	49.1	47.00	

Electric Usage Summary (kWh)

So far this year you're using 4.9% less than the same time period last year.

2024 65,280 kWh

2026 62.080 kV/h

Electric Service Details

Service from 12/05/2024 - 01/08/2025 (34 days)

Eluctric Meter Read

METER NUMBER	SERVICE From - To	NO. Days	USAGE Type	READING Type	CURRENT READING	PREVIOUS Reading	READING Difference	MULTIPLIER US	SAGE
95783299	12/05 - 01/08	34	Total kWh	Actual	4304,0000	3916,0000	388.0000		0000,080
95783299	12/05 - 01/08	34	On Peak kWh	Actual	1507,0000	1388,0000	119.0000	160,0000 19	040.0000

GL Accid:

» See next page for service details.

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Amount Due \$4,065,30

Delinquent Amount After Due Date

February 03, 2025 Account Number

Due Date

\$4,105.95

4580005832

Amount Enclosed \$

XOL PELSED JODG DELESES ROOFDO<

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Electric	Service Details (Continued)				4. C. (1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1		A42.5 A44	
METER N	IMBER SERVICE NO.	USAGE	READING	CURRENT	PREVIOUS			ER USAGE
96783299	FROM TO DAYS	TYPE	TYPE	READING	READING	Contract Division in the Contract	SIVUE	
กระบบสมราชสมัย คงส์สา	12/05 · 01/08 34	Off Peak kW	Actual	0.6040	10,0	Residentes signica	0,6040 160,00	Harris American Establish
95783299	12/05 - 01/08 34	On Peak kW	Actual	0,5800	0.00	100	0.5800 160.0	92,8000
Usage Sum	mary							
	Total kWh		ļ	82080.0000	Non-Sur	nmer kWh		62080.0000
	Peak kW			96,6000	On-Peak	kW		92,8000
	Off-Peak kW			98.6000	Sec. En	ergy Block kV	٧	92.8000
	Billing Demand			92.8000	Total Bi	lling Demand		100.0000
	October Winter Base kW			213.3000	Winter I	Base Demand		92.8000
	Base kWh Ratio			1.0000	Base kV	Vh (HUD)		62080.0000
	Seasonal kWh (HUD)			0.0000				
Rate 3N	l Large General Service		er enem en ekonomieskoliki kilonovi, sa turiste	(198 4)		· · · · · · · · · · · · · · · · · · ·	ANATOMIC - TO THE PARTY OF THE	1976 (MC
Secondary S	ve Off-Pk Demand Aider	Seconde	ry Srva Olf-Pk Door	and Rider				
	DESCRIPTION			USAGE	UNIT		RATE	CHARGE
	Seasonal Energy Charge			00,0	kWh	@	\$ 0.04080000	0,0\$
	Winter Demand Charge			100.00	kW	Q	\$ 2,30000000	\$230,00
	Base Energy Charge Hours Used			13,920,00	kWh	Ø	\$ 0.06980000	\$971.62
	Base Energy Charge Hours Used			18,560.00	kWh	@	\$ 0.05190000	\$963.2
	Base Energy Charge / Hours Used			29,600,00	kWh	@	\$ 0.04090000	\$1,210.6
	Customer Charge							\$110.59
	Fuel Adjustment Charge			62.080.00	kWh	@	\$ 0.00229000	\$142.1
	Energy Efficiency Investment Cha	rge		62,080.00	kWh	@	\$ 0.00382400	\$237.3
	Renewable Energy Adjustment			62,080.00	k₩h	@	\$ 0.00204000	\$126,6
	Rush Island Retirement Cost			62,080.00	kWh	_@	\$ 0.00117647	\$73,0
	**************************************	***	·····	****	····	Tota	l Service Amount	\$4,065.3
						Total E	lectric Charges	\$4,065.31

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AMOUNT DUE Due Date

Account Number Service Address

\$4,065.30 02/03/2025

4580005832 3 ANDERSON RD, •

Payments Since Previous Statement

DATE RECEIVED

December 26, 2024

AMOUNT \$5,121.73

Account Messages

A late payment charge of 1% will be added for any unpaid balance on all accounts after the due date.

Summer Electric Rates - June through September, Winter Electric Rates - October through May.

Please note: If your billing period for this statement spans both Summer and Winter seasons, you will see prorated charges that reflect the different rates for each season.

Rush Island Retirement Cost

Ameren Missouri is acting as the servicer for this Public Service Commission approved charge for an assignee, who owns the rights to the securitized utility tariff charges related to the Rush Island Energy Center retirement. Based on projections, customers are expected to save about \$85 million over a 15-year period versus standard rates.

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Total Electric Charges

Total Amount Due

productive and the contractive and the contrac

- v. Pay by priories. 1386,268,3129.
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- ia Pay online or manage your account. Ameren Missouri.com

\$5,121.73

\$5,121.73

Customer Service: 1.877.426.3736

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Account Number 4680606832

Partition of the state of the s

Customer Name

ALLIANCE WATER RESOURCES INC

Service Address

3 ANDERSON RD,

LAKE OZARK, MO 65049

Due Date

\$5,121.73

01/02/2025

Amount After Due Date

AMOUNT DUE

\$5,172.95

Previous Statement

\$5,517.67

So for this year you're using 2.8% MOFE than the

Total Payments

\$5,517.67

Payment Recorners, Tours You.

Electric Usage in Kilowatt Hours (kWh)

150000

40°F

3005

MAE 45°F

JUN. JUL. MAY C2°F

70°F

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24°F

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70%

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430

same sime period last year. 1,064,320 kWh

2024

Electric Usage Summary Wild

1,694,240 LVM

Electric Meter Read

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11/01 - 12/05

Total kWh

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Actual

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MISSOURI

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\$5,121.73 January 02, 2026 4580005832

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TAKE 07A8K, NO 65049-1986

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- M Customer Service: 1.877.426.3736

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			A DOTAL STATE	No.			
emissioneamissione Produktion			KC WATER TO BE	eeraniika			23770MS - 556F
kurungan Lagar							
96783299	11/04 - 12/05 31	Olf Peak kW Actual	1,6930	0,000)].	0930 160.00M	0 174,8800
98783789	11/04 - 12/05 31	On Penh kW Actual	1.0630	0.500	1.	000,000	170,0800
Usaga Pens	开 源c表						
	Total kWh		71520,0000	Non-Suin	ner kWh		71520.0000
	Peak xW		174.9900	On-Peak l	(W		170.1000
	Off-Peak WW		174,9000	Sec. Eour	gy Block kW		170.1000
	Rilling Gerrand		170.1000	Total Billi	ng Demand		170,1000
	Octobor Winter Base KW		213.3000	Winter Br	ise Demand		170.1000
	Base kWh Rello		1.0000	Sase kW	r (HUD)		71520,0000
	Seasonal kWh (HUD)		0.0000		PANEL AND A STREET SAME TO A STREET SAME		The second secon
Hate 3W	Large General Service						
Secondary Sr	vic UN-PA Caminid Pider	Sacondary Stvc Off-Pk	Demaed Ridge				
	DESCRIPTION		3242U	ingli.		RATE	CHARGE
	Seasonal Cottay Charge		0.09	kWh	Ø	\$ 0.04080000	\$0.83
	Water Hemend Charge		170.10	kW	0	0000000E.S &	\$391.23
	Base Energy Charge / Hours Use	zá	25,615.00	kWh	0	\$ 0,06980000	\$1,780.99
	Base Energy Charge Hours Use	ed	34.020.00	kWh	Ø	\$ 0.05190000	\$1,765.64
	Sase Energy Charge Hours Use	ed	11,985.00	kvvh	(C	\$ 0.04090000	\$490.19
	Costoner Cleange						\$110.58
	Fuel Adjustment Charge		71,520.00	kWh	(i)	\$ 0.00229000	\$163.7
	Energy Efficiency Investment C	karge	71,520.00	kWb	©	\$ 0.00382400	\$273.4
	Renembble Energy Adjustment		71,520.09	kWh	(G)	\$ 0.00204000	\$145.9
		transfer of the second and the secon	AND		Total	Service Amount	\$5,121.73
	The second section of the second seco	The last terms of the last ter			Total El	ectric Charges	85,121.73

Questions? Contact Amerus Missouri et 1,877.426.3738 or visit Amerentiissouri.com.

Page 2 of 4

Address Changes or Corrections

Phono Municr AmerenWissouri.com/WaysToPay



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PHUNE 866,268,3729



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DIMLINE CREOT CARD







- и Рау by phone: 1.866.268.3729
- Pay by mad: Ptl Box 88068, Chicago, B. 60680-1068
- · Pay online or manage your account. AmerenMissouri.com
- Clistomer Sqrvigo 1,677,426,3736

FOCUSED ENERGY. For life

Account Number 5588005920

Customer Name ALLIANCE WATER RESOURCES INC

Service Address

Total Amount Due

3 ANDERSON RD

LAKE OZARK, MO 65049

Į.
9
cuty

AMOUNT	DUE		•	\$87.29
				and the second s

Due Date 01/02/2025

Amount After Due Date

\$88.16

Previous Statement **Total Payments**

\$75,99 \$75.89

Payment Ryanopol. United State

Electric Usage in Allowatt Hours (kWh)

	Jan	TOTAL TEB	CWW Called Called MAR	APR	THE MAY	JON	THE STATE OF THE S	AUS	CONTRACTOR	GCT	SEE S
DEC .	Jan 40°f	FEB 30°F	MAR 46°F		MAY 62°F	10N	JUL 77*E	AUS 77°F	SEP 74°F	9GT 7G%	1017

Electric Usage Summary (kWh)

So far this year you're using 17.7% INTOTE than the sama time period last year.

10,770 kWa

2024

12,677 kWa

Keeping You Informed.

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

See next page for service details.

Keep this partium for your records.

Please return this portion with your payment

GL Acct#:

MISSOUNI

Check if you have address changes on back.

\$87.29

January 02, 2025

5580005920

Amount Enclosed \$

NOT PETERD KUBO KERSHES LENDON

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

AMEREN MISSOURI P.O. BOX 88068 CHICAGO, IL 60680-1068



- ≈ Pay by ptione: 1.866.788.3779
- » Pay notine or manage your account. AmerenMissouri.com
- # Customer Service: 1.877.426.3736

FOCUSED ENERGY. For life.

HARIT				ero in open Regionale				ilia din		izezej	FILIFA	EEEE
Electric Ma	stor Road											angles of security fact of the cond-
							ravičkinik Paravojile					
76843416	type 17,		Total (39a)	Agon		12377,0900	11718.00		econolego		0000	859.0000
78868310	THOSE (12)	35 II	Pest IN	futu		29,7230	0,00	00	29.7230		,0000	29,7230
Usage Sim	emary											
	Total kWh				££	9.0000	Man-Sua	omer kWh				659.0000
	Winter Base kWh				100	0000.00	Current	Base kWh				659.0000
	Wheter Cur Datio	KANIF.			86	0000,65	Seasona	d kWh				0.0000
Threshold - f		200 (18 SC 21) SW	- 3 4 M P.K	•								
	DESCRIPTION Base Energy Charg	.iA				DSA(SE	UNIT	, see	. an	AATE		CHARGE
	Seasonal Energy C					069.00 0.00	kjých kjých	(<u>©</u>		08940000 66160000		¥58.91
	Customer Charge	rear file				0.39	# April	Ę.	6 4 FT	no tamin		\$0.00 \$23. 07
	Foal Adjustment Cl	harge				659.00	44412	E	80.	00229000		\$1.51
	Enorgy Ethiciancy I		norge			659.DO	kWIŧ	(0	9 S CI.	00373900		62.46
	Renaw Alde Energy	Adjustment				659.00	kWh	6) 50.	00204006		\$1.34
	econo colo - Todos co debudes cherebasto estimates estimates.	en mera symmetrem manas. Ass	المستهدية المستران والمستران المستران ا	man an expension of the month accounts to the left	пертический портильный фактив.	konič venny nakobombolikompovna, grupopov pro	war com course of the first section of	To	rtal Servic	e Amount		\$67,29
								Tota	l Electric	Charges	CETTE A SECRETO Deconvolo	\$87,29
	建构作的表现在严酷的				e e e e e e e e e e e e e e e e e e e					aleman en	TERROLERY SE	Marchania (Marchania (Marchania)
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Questions? Chotact America Missouri et 1,877,426,3736 or visit America Missouri con-

Page 2 of 4

Address Changes or Consections
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RECEIVE TO THE PROPERTY OF THE
City, State, 214
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PHONE 966.259,3729



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Worldwide Experts in Wister Treatment

Ovivo USA, LLC 4246 Riverboat Road, Suite 300 Salt Lake City, UT 84123 Phone: (801)931-3000 Fax: (801)931-3080 www.ovivowater.com

Ovivo USA, LLC P.O. Box 673076 Detroit, MI 48267-3076



Comerica Bank Comerica Bank Center 411 West Lafayette Detroit, MI 48226 Account: 1851855104 Routing: 072000096 SWIFT: MNBDUS33

Telex: 3772134 MNB INTL DET

8488685

Page: 1 of 2

Date: 11/26/2024

Customer Account Number: 18908

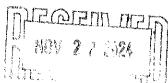
Joint Sewer Board of Lake Ozark

I P.O. Box 1985

L. Attn: Accounts Payable

L Lake Ozark MO 65049 USA

ř



1.000

Ship To:

0.000

REPLACEMENT

GL Acct#:

S Gary Hutchcraft

H Lake Ozark Wastewater Treatment plant

3 Anderson Road

Lake Ozark MO 65049

USA

MATERIAL MUST BE RETURNED F.O.B. TO OUR PLANT

	Order	Customer PO	Ship Via	Terms	Currency
ļ	SSW0015248	110724Gary	Freight Allowed	Net 30 days	USD US Dollars
ļ	line Itam/Desc	ription Qiy Ordered Ot	/ Shipped Back Order	UM Unit Price	Extended Price
	1 L115759-1	1.000	1.000 0.000	EA 1,764.410	1,764.41

1.000

DRIVE CONTROL, 4SPDT, RH, Wo POT

Date Shipped: 11/15/2024

2 48806A

- Andrews Market Market State of the Parket St

PIN,ACTUATING,2.69",STL/SB

Date Shipped: 11/15/2024

Please submit purchase order to:

Your point of contact is:

Vanessa Vann

Aftermarket Parts Specialist

Email: vanessa.vann@ovivowater.com

C: 385-449-8764 Fax: 801-931-3080

WE HEREBY CERTIFY THAT THESE GOODS WERE PRODUCED IN COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OF SECTION 6, 7, & 12 OF THE FAIR LABOR STANDARDS ACT AS AMENDED AND REGULATONS AND ORDERS OF THE UNITED STATES DEPARTMENT OF LABOR ISSUED UNDER SECTION 14 THEREOF, MATERIAL RETURN POLICY: WRITTEN AUTHORIZATION IS REQUIRED FOR ALL RETURNED

MATERIAL. MATERIAL MUST BE RETURNED F.O.B. TO OUR PLANT OF ORIGIN.

Sales Amount	1,782.44
Misc Charges	0.00
Freight	0.00
Surcharge	0.00
Sales Tax	0.00
	00.0
gris, referenciam , francis anno marca ab, anno espera per seg gar seg de destro de françois proprio de la composição de la c	
Total	1,782.44

18.030

DRIVE CONTROL FOR

18.03



Professional Metal Fabricators 7511 Liberty Road Jefferson City, MO 65101 Phone: (573) 634-1069

Invoice

Invoice Number 24-0504 Invoice Date 11/12/2024

Bill To:

Joint Sewer Board #3 Anderson Rd P.O. Box 1985 Lake Ozark, MO 65049

Ship To:

MOV 1 2 2024

Re: AW Clarifier #2 Gearbox

Lake Ozark, MO

Job No	Cu	etomer Job No Custom	er PO Payment Terms	
24-0504		A STATE OF THE STA		Due Date
Date	Quantity	Descriptio	Net 30 Days	12/12/2024
11/12/2024	75.00	LABOR	nn Rate/Unit	Price
4414010001		FUDOIX	84.31	6,323.04
11/12/2024	1.00	MATERIAL	797.47	797.47
11/12/2024	1.00	EQUIPMENT RENTAL		131.41
			517.29	517.29

TROUBLESHOT ON WEEKEND PULLED GEARDRINE, TOOK BACK TO THEIR SHOP TORE DOWN, INSTALLED NEW PARTS, BROUGHT BACK + INSTALLED NEWLY REBUILT GEARDRIVE ON CLARIFIER # 2

GL Acct#;

Signature:

Date.

Subtotal \$ 7,637.80
Sales Tax (if applicable) \$ 0.00

Total Due \$ 7,637.80

Thank you for your business!



Office:

573-369-3456

Fax: 573-369-3356

Email:

lori@tillmanpaint.com

Date:

11/12/2024

Invoice:

2024-4497

Bill To:

Joint Sewer Board of the Lake Ozark-Osage

Beach Sewage Tx Plant

#3 Anderson Rd

Lake Ozark, MO 65049

Please Make Checks Payable to:

TILLMAN PAINTING & WALL COVERING

₽.O. Box 14

Tuscumbia, MO 65082

Whr	I		$\Pi \Pi \Pi$	115
NOV NOV	Course of the Co	2	2024	
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WE THE THE WE WE THE THE				

Job Name Job Location Start Date Completion Date Completion % Contract Value Terms Fall 2024 Lake Ozurk 10/21/24 11/08/24 100% 30275.00 Net 30 Item Description Unit of Measure Qty Unit Price Total 1. Power wash and paint the exterior of the (5) 100 302.75 buildings, I wooden storage shed, as well as the 30,275.00 exterior doors and frames, steel posts and beams. and vent pipe BUILDING PAINT PROJECT GL Acct#: Signature: **Total Due** \$30,275.00

P.O. Box 14

Tuscumbia, MO

65082-0014



Magruder Limestone

255 Watson Road Troy, MO 63379 636-528-4180

Invoice Date

152531

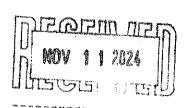
10/31/2024

Page

2 of 2

JOIN001 Account #

JOINT SEWER BOARD P. O. BOX 1985 LAKE OZARK, MO 65049



Order 1133 PLANT ROAD LAKE OZARK

					Mate	rial	Frei	aht	Fuel	Fee	Tax	
Ticket	Date	P.O.	Product	Qty	Rate	Amount		Amount	Surcharge Amount	Amount	Amount	Total
214009230	10/28/2024		1" MINUS	5.56	6.75	37.53	0.00	0,00	0.00	0.00	0.00	37.53
214009231	10/28/2024		1" MINUS	5.09	6.75	34.36	0.00	0.00	0,00	0.00	0.00	34.36
214009235	10/28/2024		1" MINUS	6.79	6.75	45.83	0.00	0.00	0.00	0.00	0.00	45.83
214009238	10/28/2024		1" MINUS	6.00	6.75	40.50	0.00	0.00	0.00	0.00	0.00	40.50
214009240	10/28/2024		1" MINUS	6.86	6.75	46.31	0.00	0.00	0.00	0.00	0.00	46.31
214009243	10/28/2024		1" MINUS	5.92	6.75	39.96	0.00	0.00	0.00	0.00	0.00	39.96
214009245	10/28/2024		1" MINUS	5.94	6.75	40.10	0.00	0.00	0.00	0.00	0.00	40.10
214009247	10/28/2024		1" MINUS	5.30	6.75	35.78	0.00	0.00	0.00	0.00	0.00	35.78
214009248	10/28/2024		1" MINUS	6.06	6.75	40.91	0.00	0.00	0.00	0.00	0.00	40.91
214009249	10/28/2024	1	1" MINUS	6.03	6.75	40.70	0.00	0.00	0.00	0.00	0.00	40.70
214009250	10/28/2024	ļ	1" MINUS	5.20	6.75	35.10	0.00	0.00	0.00	0.00	0.00	35.10
214009252	10/28/2024	i	1" MINUS	5.59	6.75	37.73	0.00	0.00	0.00	0.00	0.00	37.73
214009253	10/28/2024	ļ	1" MINUS	6.33	6.75	42.73	0.00	0.00	0.00	0.00	0.00	42.73
Subtotal				277.19 T	on	1,871.09		0.00	0.00	0.00	0.00	1,871.09
Invoice Total			F	277.19 T	ion Re Re	1,871.09 A, D		0.00	0.00	0,00	00,0	1,871.09

GL Acct#:

Total Invoice:

1,871.09

Signature:

NOTICE TO OWNER

FAILURE OF THIS CONTRACTOR TO PAY THOSE PERSONS SUPPLYING MATERIAL OR SERVICES TO COMPLETE THIS CONTRACT CAN RESULT IN THE FILING OF A MECHANIC'S LIEN ON THE PROPERTY WHICH IS THE SUBJECT OF THIS CONTRACT PURSUANT TO CHAPTER 429, RSMO. TO AVOID THIS RESULT YOU MAY ASK THIS CONTRACTOR FOR "LIEN WAIVERS" FROM ALL PERSONS SUPPLYING MATERIAL OR SERVICES FOR THE WORK DESCRIBED IN THIS CONTRACT. FAILURE TO SECURE LIEN WAIVERS MAY RESULT IN YOUR PAYING FOR LABOR AND MATERIAL TWICE.

INVOICE

Alliance

Invoice No. INV105429

Alliance Water Resources

Lake Ozark/ Osage Beach Joint Utility Board City of Osage Beach 1000 City Parkway Osage Beach, MO 65065

206 South Keene Street Columbia, MO 65201 USA

Document Date

Due Date

Payment Terms

January 1, 2025

January 31, 2025

Due in 30 Days

Total \$	31,079.00
	Service value and the service
Wastewater Plant operating service for January 2025	31,079.00
Description	Amount



October 15, 2024

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

Dear Board of Directors:

As per the terms and conditions of the Alliance O&M Agreement dated February 1, 2024, 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 CPI- All Urban Consumer Midwest. The most recent CPI data used to calculate the Alliance Fee beginning January 1, 2024 was the twelve (12) month period November 2022 through November 2023.

Accordingly, the base fee beginning January 1, 2025 will use the 12-month period from October 1, 2023 through September 30, 2024. The appropriate indices and resulting contract adjustment is calculated as follows:

CPI increase for the period =2.5%

Per the Agreement, the base fee will be adjusted upward beginning January 1, 2025 by the CPI percentage of 2.5%. The calculation of the 2025 Base Contract Fee is as follows:

Current 2023 Monthly Fee = \$30,321.00 Adjusted 2024 Monthly Fee = \$30,321.00 x 1.025= \$31,079.00

The invoice for January 2025 will reflect the new base fee of \$31,079.00

On behalf of Gary Hutchcraft and Alliance Water Resources, thank you for allowing us to serve your communities.

Sincerely,

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

12/31/2024

Account		2022	2023	2024	2024	2024	Percent
Number	Account Name	Actual	Actual	Budget	Actual as of 12/31/2024	December Revenue	YTD
3020	Osage Beach	460,708.70	491,201.99	512,148.00	508,731.86	42,807.24	99%
3010	Lake Ozark	91,794.26	87,143.84	97,552.00	96,126.49	8,001.10	99%
3030	Misc.	1,094.92	234.08	0.00	0.00	0.00	0%
3100	Intèrest	2,462.35	5,522.07	5,000.00	12,796.10	19.64	256%
3060	Waste Haulers' Fee	49,490.00	63,160.00	57,000.00	66,425.00	5,600.00	117%
	Total Operating Fund	605,550.23	647,261.98	671,700.00	684,079.45	56,427.98	102%
	E/R Fund Income	3,588.63	15,192.01	12,000.00	19,513.33	87.38	163%
	TOTAL INCOME	609,138.86	662,453.99	683,700.00	703,592.78	56,515.36	103%

MONTH-TO-DATE AND YEAR-TO-DATE EXPENDITURE/BUDGET ANALYSIS 12/31/2024

Account		2022	2023	2024	2024	2024	Percent
Number	Account Name	Actual	Actual	Amend.Budget	Actual as of	December	YTD
				-	12/31/2024	Expenses	
					•		
4000	Equipment Replace Fund	55,008.00	60,000.00	100,000.00	100,000.00	8,750.00	100%
4020	*Maintenance & Repair	60,030.11	84,665.12	126,000.00	117,259.46	3,918.73	93%
4140	Insurance	22,088.00	22,791.00	26,210.00	27,213.00	0.00	104%
4150	Vehicle Repair/Main	5,999.58	3,255.47	9,000.00	5,678.97	203,45	63%
4170	Contract Management	331,080.00	353,592.00	374,808.00	363,852.00	30,321.00	97%
4175	Electric	79,890.16	88,547.80	95,500.00	94,529.00	5,209.02	99%
4176	Utilitles Misc.	3,694.18	4,579.70	4,700.00	2,609,07	124,48	56%
4190	Bank Charges	12.00	3.00	0.00	0.00	0.00	0%
4200	Audit	2,700.00	2,800.00	2,900.00	2,994.50	0.00	103%
4240	Capital Purchases	0.00	0.00	0.00	0.00	0.00	0%
	Totals	678,450.37	620,234.09	739,118.00	714,136.00	48,526.68	97%
	**E/R Expenses	202,161,70	113,313,66	209,200.00	209,195.99	7,637.80	100%
	TOTAL EXPENSES	880,612.07	733,547.75	948,318.00	923,331.99	56,164.48	97%
4000 mm							•
4020 DET	「AIL: Equip & Bldg. Repair/Main,			<u>DETAIL: Equipm</u>	<u>ent & Replacem</u>	<u>ient</u>	
		. 2024	2023				
	Regular Maintenance	20,000		Replace RAS Pun	nps & Check Vi	195,000 1	88,500
	UV Bulbs, Quartz Sleeves, Misc	11,000					
	Painting Exterior Buildings	30,000				195,000.00	X
	Paint Clarifier #2		43,550				
	Rock for road	3,000					

64,000.00

OPERATING FUND INCOME AND EXPENSE SUMMARY 12/31/2024

Beginning Balance	333,321.74
Income - Osage Beach	42,807.24
Income - Lake Ozark	8,001.10
Income - Other	•
Income - Waste Haulers' Fees	5,600.00
Interest - Checking	19.64
Income - CD Interest	-
Transfers From E/R Fund	
Transfers To E/R Fund	(8,750.00)
Expenses	(39,890.60)
Ending Fund Balance	341,109.12
Central Bank - NOW Acct.	101,072.89
CD First Bank of the Lake, 2/20/25 #8432	116,692.80
CD First Bank of the Lake, 1/22/25 #8433	123,673.43
Outsian dina Charles 4.44E	(000.00)
Outstanding Checks: 1415	(330,00)
	341,109.12

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY 12/31/2024

Beginning Balance	390,298.91
Interest - Checking	MA.
Income - CD Interest	87.38
Transfers From Operating Fund	8,750.00
Income - Miscellaneous	-
Expenses	~
Ending Fund Balance	399,136.29
First Bank of the Lake - Money Mkt.	88,598.29
CD First Bank of the Lake, 4/30/25 #8430	120,538.00
CD First Bank of the Lake, 8/07/25 #8434	190,000.00
	-
Outstanding Checks:	-
	399,136.29

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

11/30/2024

Account Number	Account Name	2022 Actual	2023 Actual	2024 Budget	2024 Actual as of 11/30/2024	2024 November Revenue	Percent YTD
3020	Osage Beach	460,708.70	491,201.99	512,148.00	465,924.62	42,806.73	040/
3010	Lake Ozark	91,794.26	87,143.84	97,552.00	88,125,39	8,001.61	91% 90%
3030	Misc.	1,094.92	234.08	0.00	0.00	0.00	0%
3100	Interest	2,462.35	5,522.07	5,000.00	12,771.21	1,576,40	255%
3060	Waste Haulers' Fee	49,490.00	63,160.00	57,000.00	60,825.00	2,925.00	107%
	Total Operating Fund	605,650.23	647,261.98	671,700.00	627,646.22	55,309.74	93%
	E/R Fund Income	3,588.63	15,192.01	12,000.00	19,425.95	2,484.24	162%
	TOTAL INCOME	609,138.86	662,453.99	683,700.00	647,072.17	57,793.98	95%

MONTH-TO-DATE AND YEAR-TO-DATE EXPENDITURE/BUDGET ANALYSIS 11/30/2024

Account Number	Account Name	2022 Actual	2023 Actual	2024 Amend.Budget	2024 Actual as of 11/30/2024	2024 November Expenses	Percent YTD
4000	Equipment Replace Fund	55,008.00	60,000.00	100,000,00	91,250.00	8,750.00	91%
4020	*Maintenance & Repair	60,030,11	84,665.12	126,000,00	113,340.73	33,454.42	90%
4140	Insurance	22,088.00	22,791.00	26,210.00	27,213.00	0.00	104%
4150	Vehicle Repair/Main	5,999.58	3,255,47	9,000.00	5,475.52	251.51	61%
4170	Contract Management	331,080.00	353,592,00	374,808.00	333,531.00	30,321.00	89%
4175	Electric	79,890.16	88,547.80	95,500.00	89,319.98	5,593,66	94%
4176	Utilities Misc.	3,694.18	4,579.70	4,700.00	2,484.59	124.75	53%
4190	Bank Charges	12,00	3.00	0.00	0.00	0.00	0%
4200	Audit	2,700.00	2,800.00	2,900.00	2,994.50	94.50	103%
4240	Capital Purchases	0.00	0.00	0.00	0.00	0.00	0%
	Totals	678,450.37	620,234.09	739,118.00	665,609.32	78,589.84	90%
	**E/R Expenses	202,161.70	113,313.66	209,200.00	209,195.99	7,637.80	100%
	TOTAL EXPENSES	880,612.07	733,547.75	948,318.00	874,805.31	86,227.64	92%
4020 DET	AlL: Equip & Bidg. Repair/Main.			DETAIL: Equipm	ien t & Replace m	<u>ient</u>	
	Pogular Maintenana	2024	2023				
	Regular Maintenance	20,000		Replace RAS Pur	nps & Check Va	195,000	188,500
	UV Bulbs, Quartz Sleeves, Misc	11,000					
	Painting Exterior Buildings Paint Clarifier #2	30,000				195,000.00	X
			43,550				
	Rock for road	3,000					

64,000.00

OPERATING FUND INCOME AND EXPENSE SUMMARY 11/30/2024

Beginning Balance	356,487.92
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	42,806.73 8,001.61 2,925.00 23.74 1,552.66
Expenses Ending Fund Balance	(69,725.92) 333,321.74
Central Bank - NOW Acct.	95,824.53
CD First Bank of the Lake, 2/20/25 #8432 CD First Bank of the Lake, 1/22/25 #8433	116,692.80 123,673.43
Outstanding Checks:	(2,869.02) 333,321.7 4

EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY 11/30/2024

Beginning Balance	386,702.47
Interest - Checking Income - CD Interest Transfers From Operating Fund Income - Miscellaneous Expenses	84.93 2,399.31 8,750.00 - (7,637.80)
Ending Fund Balance	390,298.91
First Bank of the Lake - Money Mkt. CD First Bank of the Lake, 4/30/25 #8430 CD First Bank of the Lake, 8/07/25 #8434	79,760.91 120,538.00 190,000.00
Outstanding Checks:	390,298.91

<u>OUR</u> MISSION

We partner with communities to deliver the finest water and wastewater services avallable 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 November 2024

Submitted by Alliance Water Resources, Inc. for the

January 2025

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, but did have an employee miss the first 10 days of the month due to recovering from surgery from an old work-related injury.

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

PLANT EFFLUENT QUALITY

	BOD mg/l	TSS mg/l		E.coli Coliform Colonies/100 ml	Ammonia as N mg/L	O&G mg/L
Monthly/Quarterly Avg	2.1	3.2	N/A	0.0	0.10	< 2.0
Peak Day	2.3	4.6	8.0		0.30	< 2.0
Percent Removal	98.7	98.7	N/A		N/A	N/A

NPDES EFFLUENT LIMITATIONS

	BOD <u>mg/l</u>	TSS mg/l	рН	E.coli Coliform Colonies/100 ml	Ammonia as N mg/L	O&G mg/L
Monthly/Quarterly Avg Weekly Average	30 45	30 45	6-9	126 630	2.5	10
Daily Max	10	10		N/A	12.1	15

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 0.991 MGD or 33% of Permitted flow with Lake Ozark contributing 14% of the total flow and Osage Beach contributing 86%. Daily influent flow BOD and TSS data is presented in Table A. Daily flow for the month and rainfall are shown in Figure 2. A three-year flow history for each of the two cities is presented in Table B.

Organic loading for the month was 41179 pounds of BOD.

BIOSOLIDS APPLICATION AND INVENTORY

Plant personnel land applied 36 tanker loads of bio-solids during the month equivalent to a total of 129,600 gallons and 40,233 pounds dry weight solids.

475,611 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 225,000 gallons with a level of 2.0 feet in Tank 1 and 3.0 feet in Tank 2.

WASTEHAULERS

The plant received 29 loads of septage during the month totaling 65,000 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.
- We took the UV system offline on the 1st of November.
- We took Clarifier #3 offline on the 27th of November.

WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Maxpanda Maintenance Data Management software schedule.
- Tillman Painting finished the Building Paint Project on the 6th of November.
- We noticed a propage smell on the backside of the UV building, and we found that the line going into the building from the tank was leaking right at ground level. We shut it off at the tank and called Central MO All Service Plumbing to see if they could come down and look at it. They sent their certified propage tech down on the 6th of November and came back and repaired it on the 7th.

SAFETY

 We started a new monthly Safety Meeting process to where the employee is assigned a safety meeting topic through our AWR UKG Learning site which is due by the 15th of each month. This month's topics were Hazard Communication and Hazards of Speeding.

REGULATORY AGENCY, INSPECTION AND REPORT

- We filled out the new EDMR on the EPA MoGEM website on the 4th of December.
- We took a 24-hour composite sample for the permit required expanded effluent testing for the permit renewal on the 11th of November and shipped it on the 12th.

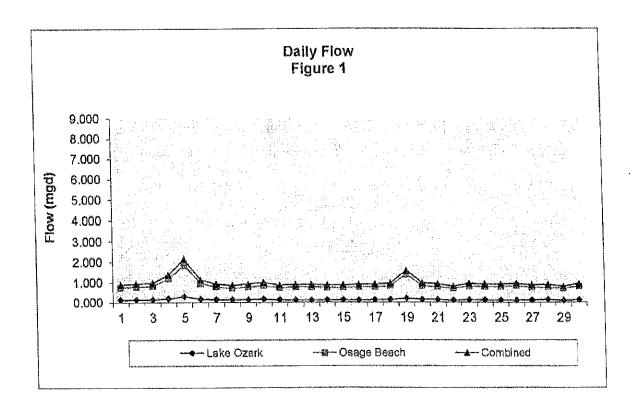
MISCELLANEOUS AND RECOMMENDATIONS

• We would like to Thank the City of Osage Beach sending a crew out to help with the installation of the new controller for Clarifier #1.

TABLE A LAKE OZARK/OSAGE BEACH WWTP

MONTH OF November 2024

DATE			FL	OW		BOD 5 MG/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	COMB mg/l
1-Nov	0 1	0.136	0.749	0.885	15.4	84.6			100000000000000000000000000000000000000			Tel-mariomonimamoni
2-Nov	0	0.148	0.791	0.939	15.8	84.2			······································		***************************************	,
3-Nov	0	0.145	0.824	0.969	15.0	85.0	- I maumour de mateix NI vicales (194					·
4-Nov	1.4	0.193	1.181	1.374	14,0	86.0			tyl, simen en semenyym isi bard tehde	**************************************		
5-Nov	2.1	0,290	1.855	2.145	13.5	86.5		- x-nonment of the control of the co				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
6-Nov	0	0,174	0.961	1.135	15.3	84.7						
7-Nov	0	0.146	0.779	0.925	15.8	84.2					angu galaga-daria ka comunicat con monorco	
8-Nov	0	0.133	0.720	0.853	15.6	84.4	195	115	158	194	86	28
9-Nov	0.3	0.141	0.776	0.917	15.4	84.6						
10-Nov	0.2	0.163	0.841	1.004	16.2	83.8					4	
11-Nov	0	0.132	0.732	0.864	15.3	84.7						
12-Nov	0	0.123	0.772	0.895	13.7	86,3						
13-Nov	Ü	0.117	0,778	0.895		86,9						
14-Nov	0.1	0.119	0.748	0.867		86.3						
15-Nov	0	.0,119	0.733	0.852		86.0	170	175	17	3 12	2 102	. 22
16-Nov	0	0.116		0.887		86.9			1		1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
17-Noy	0	0.129		0.900		85.7						
18-Nov	0.5	0.137		0.95		85.7				***************************************		
19-Nov	8.0	0.195		1.58		87.7						
20-Nov	0	0.143		0,96		85.2						
21-Nov	0	0.139				84.9						
22-Nov	0	0.107				86.8	18:	3 16	8 16	58 10	4 15	2 3
23-Nov	0	0.131				86.1			**************************************			
24-Nov	0	0.120				86.8						
25-Nov	0.0	0.113				87.6						
26-Nov	0	0.117		The second section and the second second		88,0		_	_			
27-Nov	0	0.11:				86.8		8 16	0 1	55 2:	50 11	0 1
28-Nov	0	0.13				84.4		***************************************				
29-Nov	0	0,10		ny representational industrial and	nun como siones acono	87.5	anno conservativos					
30-Nov	0	0.13	1 0.80	1 0.93	32 14.1	85.9						
SUM	5,6	4.208	25,536	29.744								STREET, STREET
AVG		0.140	0,851	0.991	14	86	209	155	166	168	3 113	244



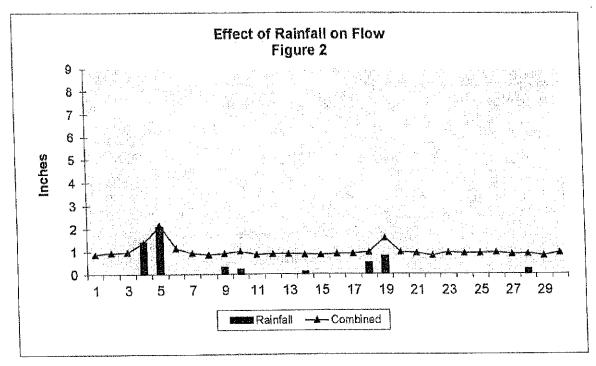
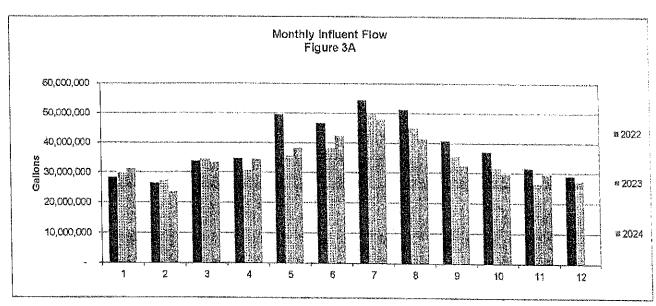
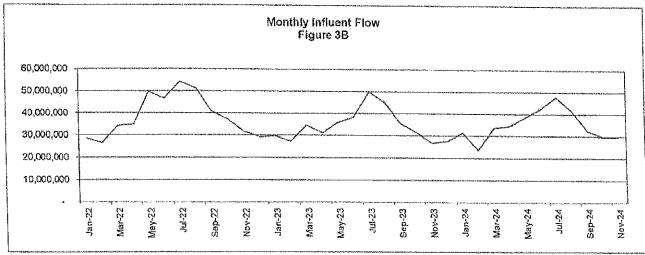
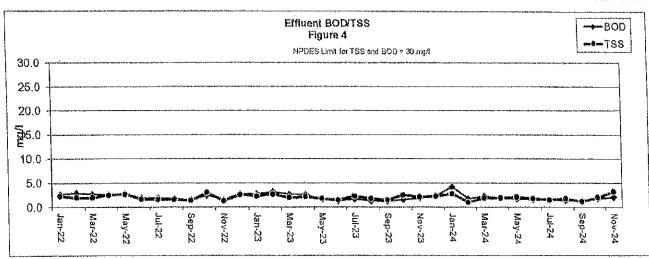


TABLE B JOINT SEWER BOARD Monthly Flows

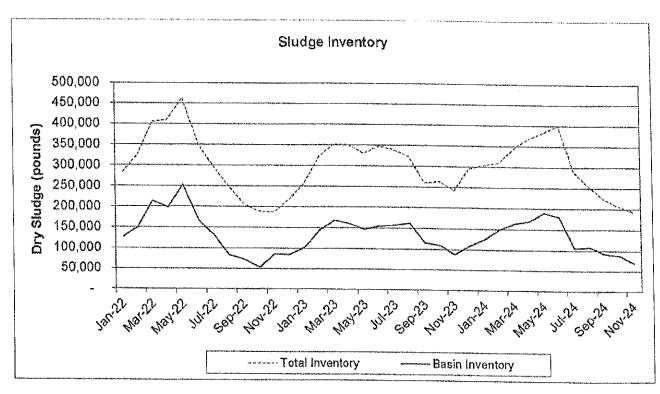
<u> 2022</u>	RAINFALL	OSAGE BEACH	LAKE OZARK	TOTAL %
January	1.7	23,599,000 83%	4,824,000 17%	28,423,000 100%
February	3.8	21,853,000 83%	4,610,000 17%	26,463,000 100%
March	5.2	28,266,000 83%	5,657,000 17%	33,923,000 100%
April	6.3	28,580,000 82%	6,088,000 18%	34,668,000 100%
May	9,1	41,076,000 83%	8,597,000 17%	49,673,000 100%
June	3.3	39,125,000 84%	7,563,000 16%	46,688,000 100%
July	2.6	45,728,000 84%	8,591,000 16%	54,319,000 100%
August	6,8	42,549,000 83%	8,716,000 17%	51,265,000 100%
September	2.4	34,238,000 84%	6,499,000 16%	40,737,000 100%
October	5.2	31,814,000 86%	- •	37,131,000 100%
November	4.5	26,905,000 85%	4,739,000 15%	31,644,000 100%
December	1.9	24,749,000 85%	4,376,000 15%	29,125,000 100%
		, , , ,	1,010,000 20,00	27,120,000 10070
	52.7	388,482,000 84%	75,577,000 16%	464,059,000 100%
2023	RAINFALL	OSAGE BEACH	LAKE OZARK	TOTAL %
January	2.8	25,972,000 87%		29,784,000 100%
February	3.9	23,448,000 86%		27,268,000 100%
March	6.2	29,920,000 87%		34,479,000 100%
April	1.3	26,903,000 87%		30,988,000 100%
May	2.1	29,783,000 83%		35,733,000 100%
June	0.9	32,155,000 84%	6,040,000 16%	38,195,000 100%
July	7.1	42,263,000 85%	7,678,000 15%	49,941,000 100%
August	8.3	37,375,000 83%	7,664,000 17%	45,039,000 100%
September	2.5	29,574,000 83%	5,917,000 17%	35,491,000 100%
October	3.2	26,468,000 84%	5,067,000 16%	31,535,000 100%
November	1.0	22,375,000 849	4,282,000 16%	26,657,000 100%
December	3.4	23,026,000 84%	6 4,445,000 16%	27,471,000 100%
	42.7	349,262,000 85%	6 63,319,000 15%	412,581,000 100%
2024	RAINFALL	OSAGE BEACH	LAKE OZARK	TOTAL %
January	4.8	26,487,000 859	Approximate and the second sec	
February	1,1	20,148,000 859	•	
March	5.1	27,206,000 815		
April	7.3	28,925,000 849		
	7.4	31,860,000 83		
May June	4.8	36,193,000 86		
July	4.5	40,465,000 84		
August	6.4	34,988,000 85		
September		27,348,000 84		· · · · · · · · · · · · · · · · · · ·
October	1.5	25,231,000 85		
November		23,536,000 .86	•	- '
December		au _s uuy _s uu . co	io gardioo it.	10 22,144,000 IOO/0
1,000111001				
	49,6	324,387,000 84	% 60,182,000 16°	% 384,569,000 100%

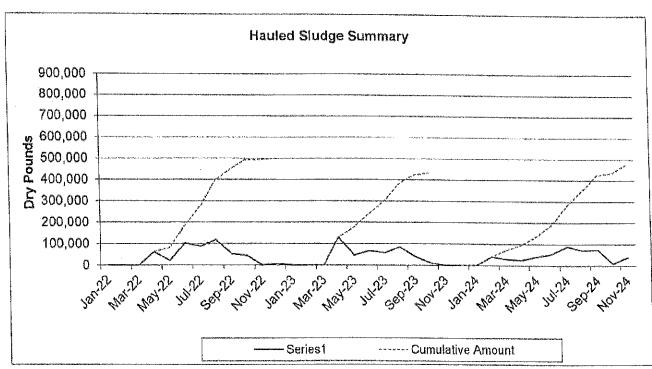






Hamiled Studge																		1 441 55	Total Dry	Accepted	Sontace
Leads Gallons #D ty #Sofies Annual Cumulative # Dry #Sofies Annu						Pasin Depths				Blar											
180 180					A CONTRACTOR AND TON	Tank #1 T	ank #2	48#18	osin Gallon≤	# Dry	Clari #1	Clarf#2 C									27,000
Jan-22 0 - 0 4.0%	s Ga	Gallons			Annual Comulative is cay				337 500	126,664	1.0										68,00D
Feb-22 0 - 0 4.0%	0	₹	D					0.0	450,000	150,120	4.0									,	48,000
May-22 16 57.800 21,917 4.44 83,137 8.5 7.0 0.0 597 500 254,503 2.0 10.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	0	-	0					0.0	585 000	214,872											124,500
Apr-22 47 169,230 62,120 44,49 33,497 4.96 33,497 4.9 50,000 57,600 254,503 2.0 100 1.0 1.0 1.0 1.5 5,800 6,630 3,753,952 184,247 0.0059 351,297 4.2 95, 31,400 102,052 4.0% 185,189 7.0 4.0 0.0 495,000 167,049 4.5 0.5 1.5 5,760 6,610 3,753,952 184,247 0.0059 351,297 4.2 95, 31,400 102,052 4.0% 185,189 7.0 4.0 0.0 495,000 167,049 4.5 0.5 1.5 5,760 6,610 3,753,952 184,247 0.0059 351,297 4.2 95, 31,400 102,052 4.0% 185,189 7.0 4.0 0.0 495,000 167,049 4.5 0.5 1.5 5,760 6,610 3,753,952 184,247 0.0059 351,297 4.2 95, 31,400 1.2 8.0 286,000 88,961 3.7% 274,150 7.0 2.5 0.0 427,500 132,051 8.0 3.0 1.5 4,740 5,860 3,860,524 186,295 0.0055 256,448 183 30,400 1.2 8.0	_				SO 100			ם.ם	540.000	198,255	10.0										85,900
Nay-22 16 57,600 21,917 4.4% 93,151 7.0 4.0 0.0 495,000 167,049 4.5 0.5 1.5 5,760 5,001 3,733,321 76,240 5,005 298,346 33 65 1,001,022 36 328,000 102,052 4.0% 185,169 7.0 4.0 0.0 427,500 132,051 6.0 3.0 1.5 4,740 5,660 3,666,110 166,789 0,0055 250,418 168 300 102,052 108 386,800 120,426 3.7% 394,576 2.0 4.0 0.0 270,000 38,629 1.5 1.0 0.5 4,650 4,160 3,657,238 134,359 0,0044 207,251 76 180,400 120,222 108 386,800 120,426 3.7% 394,576 2.0 4.0 0.0 270,000 38,629 1.5 1.0 0.5 4,650 4,160 3,657,238 134,359 0,0044 207,251 76 180,400 120,222 108 183,600 54,073 3.5% 448,649 3.5 2.0 0.0 247,500 72,893 1.0 1.0 0.5 4,650 4,160 3,657,238 134,359 0,0044 207,251 76 180,400 120,222 120 151,200 44,405 3.5% 493,054 1.0 3.0 0.0 180,000 52,863 0.5 0.5 0.5 0.5 4,590 4,390 3,635,574 101,573 0,0004 166,954 38 86 0,004 100,400								0.0	597 500	254,503	2.0									42	93,500
Jun-22 84 302,400 102,052 4,0% 105,000 88,961 3.7% 274,150 7.0 2.5 0.0 427,500 132,051 8.0 3.6 1,5 4,740 5,660 3,666,110 166,789 0,0055 256,418 168 302, 409 22 108 388,800 120,426 3.7% 394,576 2.0 4.0 0.0 270,000 83,629 1.5 1.0 0.5 5,400 5,420 3,668,110 166,789 0,0055 256,418 168 302, 409 22 108 388,800 120,426 3.7% 394,576 2.0 4.0 0.0 247,500 72,893 1.0 1.0 0.5 4,650 4,160 3,657,238 134,359 0,0044 207,251 76 186,350 200,000 1								0.0	495,000	167,049											68,500
394,576 20 4.0 0.0 270,000 83,5326 1.5 10 0.5 4,000 5,400 5,								0.0	427,500	132,051											300,000
Aug-22 108 388,800 120,426 5.7% 55.00 0.0 247,500 72,893 1.0 1.0 0.5 4,690 4,690 3,693,476 136,286 0,0045 189,149 33 77 Sep-22 51 183,600 54,073 3.5% 448,648 3.5 2.0 0.0 180,000 52,863 0.5 0.5 0.5 4,590 4,390 3,639,476 136,286 0,0045 189,149 33 77 Sep-22 51 183,600 54,073 3.5% 493,054 1.0 3.0 0.0 180,000 52,863 0.5 0.5 0.5 4,590 4,390 2,340 3,635,524 101,573 0,0034 186,994 38 86 Nov-22 0 - 0 3,5% 493,054 4.0 2.5 0.0 292,500 85,381 1.0 1.0 0.0 4,880 5,380 2,340 3,635,524 101,573 0,0034 186,994 38 86 Nov-22 8 28,800 7,746 3.2% 50,800 4.0 3.0 0.0 315,000 34,722 1.5 1.5 0.0 4,510 4,270 3,653,286 133,756 0,0034 218,478 33 77 Dec-22 8 28,800 7,746 3.2% 50,800 50,800 50,800 102,082 1.0 1.0 0.0 4,880 5,380 3,635,524 155,543 0,0034 218,478 33 77 Dec-22 8 28,800 7,746 3.2% 50,800 50,800 50,800 144,115 2.0 2.0 0.0 6,000 5,570 3,671,045 177,682 0,0058 321,997 38 87 Jan-23 0 - 0 3,2% - 0,5 5,5 0.0 540,000 144,115 2.0 2.0 0.0 6,000 5,570 3,671,045 177,682 0,0058 321,997 38 87 May-23 0 - 0 3,2% - 7,0 7,0 0.0 630,000 185,134 1.0 2.0 1.0 5,310 6,640 3,696,714 184,213 0,0080 352,347 50 118 May-23 116 417,000 129,223 3,7% 129,223 7.5 4.0 0.0 517,500 180,367 1.0 1.0 1.0 6,200 6,470 3,678,672 180,719,405 183,719,405 183,719,405 183,719,405 183,719,405 183,719,405 183,719,405 183,719,405 183,286 0,0058 339,287 61 120 Jun-23 51 183,600 55,307 3,8% 239,609 6.0 5.0 0.0 495,000 185,2373 1.0 1.0 0.5 5,600 4,510 3,671,288 160,285 0,0053 32,287 61 120 Jun-23 51 183,600 55,307 3,8% 239,609 6.0 5.0 0.0 495,000 185,263 1.5 40 0.5 5,600 4,510 3,671,288 160,285 0,0053 32,287 61 120 Jun-23 51 183,600 55,307 3,8% 239,609 6.0 5.0 0.0 495,000 185,2873 1.0 1.0 0.5 5,600 4,510 3,671,288 160,285 0,0053 32,287 61 120 Jun-23 51 183,600 55,307 3,8% 239,609 6.0 5.0 0.0 495,000 185,2873 1.0 1.0 0.5 5,600 4,510 3,671,288 160,285 0,0053 32,287 61 120 Jun-23 51 183,600 55,307 3,8% 239,609 6.0 5.0 0.0 495,000 185,2873 1.0 1.0 0.5 5,600 4,510 3,671,288 160,285 0,0053 32,287 61 120 Jun-23 51 183,600 55,307 3,8% 239,609 6.0 5.0 0.0 5								0.0	270,000	83,529	1.5									76	166,000
Sep-22 51 183,600 340,73 3.5% 493,054 10 30 0.0 180,000 52,863 0.5 0.5 0.5 0.5 0.5 0.0 363,554 101,573 0.0034 186,954 38 86 0.0022 0 - 0 3.5% 493,054 4.0 2.5 0.0 292,500 83,381 1.0 0.0 0.4,300 4.300 4.300 4.300 4.300 5.365,386 133,756 0.0044 218,478 33 77 0.0022 0 - 0 3.5% 493,054 4.0 3.0 0.0 315,000 84,722 1.5 1.5 0.0 4,510 4,270 3.653,286 133,756 0.0044 218,478 33 77 0.0022 8 28,800 7,746 3.2% 500,800 4.0 3.0 0.0 315,000 84,722 1.5 1.5 0.0 4,510 4,270 3.653,286 133,756 0.0044 218,478 33 77 0.0022 8 28,800 7,746 3.2% 500,800 4.0 3.0 0.0 382,500 102,082 1.0 1.0 0.0 4,800 5.300 3,635,524 101,573 0.0034 218,478 33 77 0.0022 8 28,800 7,746 3.2% 500,800 5.5 0.0 382,500 102,082 1.0 1.0 0.0 4,800 5.300 3,635,524 105,536 0.0034 218,478 33 77 0.0022 1.0 1.0 0.0 4,800 5.300 3,635,524 105,536 0.0034 218,478 33 77 0.0022 1.0 1.0 0.0 4,800 5.300 5.307 3,671,044 177,822 0.0058 321,997 38 87 0.0034 1.0 0.0 4,800 5.300 4.0 0.0 5,300 5.300 4.0 0.0 5,300 5.								0.0	247 500												71,000
0ct-22 42 151,202 A4,403 5.5% 493,054 4.0 2.5 0.0 292,500 85,381 1.0 1.0 0.0 4,300 2.0 3653,226 133.756 0.0044 218,478 33 7.7 Der-22 8 28,800 7,746 32% 500,800 4.0 3.0 0.0 315,000 34,722 1.5 1.5 0.0 4,510 4,270 3.653,226 133.756 0.0044 218,478 33 7.7 Der-22 8 28,800 7,746 32% 500,800 4.0 3.0 0.0 315,000 102,082 1.0 1.0 0.0 4,880 5,380 3,635,524 155,543 0.0051 257,625 35 7.2 Jan-23 0 - 0 3.2% 5.0 5.0 5.0 5.0 5.0 5.0 5.0 0.0 44,115 2.0 2.0 0.0 6,080 5,570 3,871,084 177,882 0.0058 321,997 50 115 Feb-23 0 - 0 3.2% 5 - 7.0 7.0 0.0 630,000 165,134 1.0 2.0 1.0 5,310 6,640 3,698,714 184,213 0.0050 352,347 50 115 May-23 116 417,000 120,223 3,7% 129,223 7.5 4.0 0.0 517,500 185,084 0.5 9.0 0.5 5,120 6,530 3,790,453 184,142 0.0058 350,326 49 107, 100 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0								0.0	180 000	52,863										38	89,500
Nov-22 0 - 0 3.5% 500,800 4.0 3.0 0.0 315,000 84,722 1.5 1.5 0.0 4,510 4,270 3,033,363 55.4 155.543 0.0051 257,625 35 72 Dec-22 8 28,800 7,746 32% 500,800 5.0 35 0.0 382,500 102,082 1.0 1.0 0.0 4,880 5,380 3,635,524 155.543 0.0058 321,997 38 97 Jan-23 0 - 0 3.2% - 6.5 5.5 0.0 540,000 144,115 2.0 20 0.0 6,080 5,570 3,671,048 177.862 0.0058 321,997 38 97 Feb-23 0 - 0 3.2% - 7.0 7.0 0.0 630,000 165,134 1.0 20 1.0 5,310 6,640 3,698,714 184,213 0.0050 352,347 50 115 Feb-23 0 - 0 3.2% - 7.0 7.0 0.0 630,000 165,134 1.0 20 1.0 5,310 6,640 3,698,714 184,213 0.0050 352,347 50 115 May-23 0 - 0 3.2% - 7.0 7.0 0.0 630,000 165,134 1.0 20 1.0 5,310 6,640 3,698,714 184,213 0.0050 352,347 50 115 May-23 116 417,000 129,223 3,7% 129,223 7.5 4.0 0.0 517,500 160,367 1.0 1.0 1.0 6,200 6,470 3,678,952 189,770 0.0058 350,226 49 103 May-23 16 417,000 129,223 3,7% 175,970 5.0 6.0 0.0 540,000 145,084 0.5 90 0.5 5,120 6,630 3,790,453 184,142 0.0058 350,226 49 103 May-23 48 172,800 46,747 3,2% 175,970 5.0 6.0 0.0 495,000 146,084 0.5 90 0.5 5,120 6,400 3,719,405 183,254 0.0052 348,207 59 131 May-23 50 206,800 65,362 3,8% 241,332 60 5.0 0.0 495,000 157,200 2.0 35 0.5 6,030 5,710 3,719,405 182,086 0.0059 309,287 61 120 May-23 51 183,600 50,307 3,8% 299,609 6.0 5.0 0.0 495,000 157,200 2.0 35 0.5 6,030 5,710 3,719,405 182,086 0.0059 309,287 61 120 May-23 51 183,600 50,307 3,8% 299,609 6.0 5.0 0.0 495,000 157,200 2.0 35 0.5 6,030 5,710 3,719,405 182,086 0.0059 309,287 61 120 May-23 51 183,600 50,307 3,8% 299,609 6.0 5.0 0.0 495,000 157,200 2.0 35 0.5 6,030 5,710 3,719,405 182,086 0.0059 309,287 61 120 May-23 51 183,600 50,307 3,8% 299,609 6.0 5.0 0.0 495,000 157,200 2.0 35 0.5 6,030 5,710 3,719,405 182,086 0.0059 309,287 61 120 May-23 51 183,600 50,307 3,8% 299,609 6.0 5.0 0.0 495,000 157,200 2.0 35 0.5 6,030 5,710 3,719,405 182,086 0.0059 309,287 61 120 May-23 51 183,600 50,307 3,8% 299,609 6.0 5.0 0.0 495,000 157,200 2.0 35 0.0 10 0.5 5,600 4.910 2.0 5,657,288 160,285 0.0053 322,668 2.0 6,000 3.0 5,600 4.0 6,000 4.0 6,000 4.0 6,000 4.0 6,000 4	12 1	151,202	44,405					0.0	292 500	85,387											71,500
Dec-22 8 28,800 7,46 3.2% 5.0 3.5 0.0 382,500 102,082 1.0 1.0 0.0 4,880 5,500 3,033,04 1350 50,0058 321,997 38 87 34,007 34,007 32,007								0.0	315,000	84,722											74,500
Jan-23 0 - 0 3.2% - 0.5 5.5 0.0 540,000 144,115 20 20 0.0 8,081 6,640 3,698,714 184,213 0,0080 352,347 50 115 760-23 0 - 0 3.2% - 7.0 7.0 0.0 830,000 168,134 1.0 20 1.0 5,310 6,640 3,698,714 184,213 0,0080 352,347 50 115 760-23 0 - 0 3.2% - 7.0 7.0 0.0 830,000 168,134 1.0 20 1.0 5,310 6,640 3,698,714 184,213 0,0080 352,347 50 115 760-23 116 417,000 120,223 3,7% 129,223 7.5 4.0 0.0 517,500 180,367 1.0 1.0 1.0 6,200 6,170 3,678,952 189,771 0,0062 350,138 82 17 76,231 116 417,000 120,223 3,7% 129,223 7.5 4.0 0.0 540,000 146,084 0.5 9.0 0.5 5,120 6,530 3,794,453 184,142 0,0058 350,226 49 103,400,200 145,000 145		28,800			550,000				382 500	102,382	1,0									38	57,500
Feb-23 0 - 0 3.2% - 7.0 7.0 0.0 630.000 168,134 1.0 20 1.0 5,331 0,640 3,048,171 0,0062 350,138 82 177 Mar-23 0 - 0 3.2% - 7.5 4.0 0.0 517.500 180,367 1.0 1.0 1.0 6,200 6,170 3,678,952 189,771 0,0062 350,138 82 177 Apr-23 116 417,000 129,223 3.7% 129,223 7.5 4.0 0.0 517.500 180,367 1.0 1.0 1.0 1.0 6,200 6,170 3,678,952 189,771 0,0062 350,138 82 177 Apr-23 116 417,000 129,223 3.7% 129,223 7.5 4.0 0.0 517.500 180,367 1.0 1.0 1.0 1.0 6,200 6,170 3,678,952 189,771 0,0062 350,138 82 177 Apr-23 116 417,000 129,223 3.7% 175,970 5.0 6.0 0.0 540,000 146,084 0.5 9.0 0.5 5,120 6,530 3,719,405 183,254 0,0052 348,207 59 133 100-23 48 172,800 46,747 3.2% 175,970 5.0 6.0 0.0 540,000 146,084 0.5 9.0 0.5 6,020 6,440 3,719,405 183,254 0,0052 348,207 59 133 100-23 56 208,800 65,362 3.8% 241,332 6.0 5.0 0.0 495,000 157,200 2.0 35 0.5 5,030 5,710 3,719,405 182,086 0,0059 309,287 61 120 100-23 56 208,800 65,362 3.8% 299,609 6.0 5.0 0.0 495,000 157,200 2.0 35 0.5 5,030 5,710 3,719,405 182,086 0,0059 309,287 61 120 100-23 56 208,800 65,362 3.8% 299,609 6.0 5.0 0.0 495,000 157,200 2.0 35 0.5 5,030 5,710 3,719,405 182,086 0,0059 309,287 61 120 100-23 51 183,600 58,307 3,8% 299,609 6.0 5.0 0.0 495,000 157,200 2.0 35 0.5 5,030 5,710 3,719,405 182,086 0,0059 309,287 61 120 100-23 51 183,600 58,307 3,8% 299,609 6.0 5.0 0.0 495,000 157,200 2.0 35 0.5 5,000 4,910 3,657,238 160,238 0,0059 309,287 61 120 100-23 51 183,600 58,307 3,8% 299,609 6.0 5.0 0.0 495,000 157,500 162,373 1.0 1.0 0.5 5,600 4,910 3,657,238 160,238 0,0059 309,287 61 120 100-23 51 183,600 58,307 3,8% 299,609 6.0 5.0 0.0 517,500 162,373 1.0 1.0 0.5 5,600 4,910 3,657,238 145,539 0,0059 309,287 61 120 100-23 51 183,600 58,307 3,8% 299,609 6.0 5.0 0.0 517,500 162,373 1.0 1.0 0.5 5,600 4,910 3,657,238 145,539 0,0058 309,287 61 120 3,657 6	-	-	_					0.0	540 000	144,115	2.0										115,500
Mar-23 0 - 0 3.2% 129,223 7.5 4.0 0.0 517,500 150,367 1:0 1.0 1.0 5200 517,00 507,0453 184,142 0.0058 350,226 49 107,400 129,223 3.7% 129,223 7.5 4.0 0.0 540,000 146,084 0.5 90 0.5 5,120 6,530 3,790,453 184,142 0.0058 350,226 49 107,400 146,084 0.5 90 0.5 5,120 6,530 3,790,453 184,142 0.0058 350,226 49 107,400 146,083 48 172,800 46,747 3.2% 175,970 5.0 5.0 0.0 540,000 146,084 0.5 90 0.5 5,120 6,530 3,719,405 183,254 0.0052 348,207 59 137,000 157,200 146,085 1.5 40 0.5 6,020 6,440 3,719,405 182,086 0.0059 339,287 61 120,000 145,085 11,000 14	0	-	-		-			0.0	630,000	168,134	1.0									82	171.500
Apr.23 116 447,000 129,223 3.7% 125,225 5.0 6.0 0.0 543,000 145,084 0.5 9.0 0.5 5,720 5.0 5.0 132,325 0 163,719,405 183,719,40					400,000				5 17,500	160,367										49	102,500
May-23 48 172,800 46,747 32.96 174,332 6.0 5.0 0.0 495,000 154,953 1.5 4.0 0.5 6,030 5,740 3,749,405 182,086 0,0059 339,287 61 120 120,23 5.6 208,800 65,382 3.8% 241,332 6.0 5.0 0.0 495,000 157,200 2.0 35 0.5 6,030 5,710 3,719,405 182,086 0,0059 339,287 61 120 120,23 5.1 183,600 58,307 3.8% 299,639 6.0 5.0 0.0 495,000 157,200 2.0 35 0.5 6,030 5,710 3,719,405 182,086 0,0059 339,287 61 120 120 120 120 120 120 120 120 120 12								0.0	540,000	146,084										59	131,500
Jun-23 58 205,800 65,362 38% 21,322 0.0 0.0 495 000 157,200 2.0 35 0.5 5,000 3,719 10,713 10,205 0.0053 322,656 27 60 10,123 51 163,600 58,307 3.8% 299,639 6.0 5.0 0.0 495 000 157,200 1.0 1.0 0.5 5,600 4,910 3,657,258 160,285 0.0053 322,656 27 60 10,123 51 163,600 58,307 3.8% 299,639 6.0 5.0 0.0 495 000 157,200 1.0 1.0 0.5 5,600 4,910 3,657,258 160,285 0.0053 322,656 27 60 10,123 51 163,600 58,307 3.8% 299,639 6.0 5.0 0.0 495 000 157,200 1.0 1.0 0.5 5,600 4,910 3,657,258 160,285 0.0053 322,656 27 60 10,123 51 163,600 58,307 3.8% 299,639 6.0 5.0 0.0 495 000 157,200 1.0 1.0 0.5 5,600 4,910 3,657,258 160,285 0.0053 322,656 27 60 10,123 51 163,600 58,307 3.8% 299,639 6.0 5.0 0.0 495 000 157,200 1.0 0.0 10,123 51 163,600 58,307 3.8% 299,639 6.0 5.0 0.0 517,500 162,373 1.0 0.0 5,600 4,910 3,657,258 160,285 0.0053 322,656 27 60 10,123 51 163,600 58,307 3.8% 299,639 6.0 5.0 0.0 517,500 162,373 1.0 0.0 5,600 4,910 3,657,258 160,285 0.0053 322,656 27 60 10,123 51 163,600 58,307 3.8% 299,639 6.0 5.0 0.0 517,500 162,373 1.0 0.0 5,600 4,910 3,657,258 145,339 0.0 0.0 5,600 4,910 3,600 58,500 4,910 3,600 58,500 4,910 3,600 58,500 4,910 3,600 58,500 4,910 3,600 58,500 4,910 3,600 58,500 4,910 3,600 58,500 4,910 3,600 58,500 4,910 3,600 58,500 4,910 3,600 58,500 4,910 3,600 58,500 4,910 3,600 58,500 4,910 3,600 58,500 4,910 3,600 58,500 4,910 3,600 58,500 4,910 3,600 58,500 4,910 3,600 58,500 4,910 3,600 58,500 4,910 3,600 4,91							-		495 000	154,953	1.5										120.5CD
Jul-23 51 183,600 58,507 3.8° 25,208 7.0 4.5 0.0 517,500 162,373 1.0 1.0 0.5 7,500 4.5 70 2,507,208 1.45,339 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.									495 000	157,200	2.0									27	66,500
								0.0	517.500	162,373	1.0									84	164,000
Aug-23 74 266,400 83,507 5.67 0.0 360,000 115,503 1.0 1.0 0.5 4,760 4,750 5.67 0.0051 284,896 40 85	74 2	266,400	83,587	3.8%					360 000	115,503	7.0	10	0.5	4,780						40	85,500
Sep-23 34 122,400 39,271 38% 424,500 109,778 0.5 0.5 0.5 0.5 0.5 0.5 3,039,71 30,000 3	34 1	122,400							337.500	109,778	0.5	0.5									59,000
Oct 23 9.5 34,200 11,124 3.9% 45,502 0.0 270,000 87,620 2.0 2.0 0.5 4,550 5,54	.5	34,200	11,124		433,021				270 000	87,820	2.0	20								-	77,000
Nov-23 0 - 0 39% 45 30 00 337500 109,775 1.0 30 0.0 5,730 5,450 3,571,546 100,735 100,735 100,775	0	-	_						337,500	109,775	1.0										43,000
Dec.23 0 0 39% 5 30 00 352500 124,412 1.0 5.0 0.0 5,470 0,100 0,700,072 100 0,000 310,001 100 0,700,072 100,072	0	•	_		•				352 500	124,412	1.0										40,300
Jan-24 0 - 0 3.9% Jan-24 0 - 0 3.9% Jan-24 0 - 0 3.5 00 472.500 148.980 0.5 10 0.0 5,120 5,530 3,070.500 100.000 3,070.500			_		•				472 500	148,980	05										51,500
Feb-24 36 129,600 40,863 3.8% 40,000 70, 495,000 163,482 4.6 50 0.0 5,960 5,940 3,755,000 100,495,000 561,123	36 1	129,600							495 000	163,482	4.0	-50								56	122,000
Mar-24 25 90,000 29,724 40% 75,001 55 70 00 562,500 169,497 1.5 0.5 0.5 5,770 7,270 3,007,201 40,005 300,201	25	90,000							562 500	169,497	1.5	0,5									119,000
Act-24 23 82,800 24,960 3.6% 95,507 50 65 00 507,900 189,713 5.0 2.5 0.5 6,800 5,823 3,77,500 182,800 400,273 78 175	23	82,800								189,713	5.0	2.5									175,000
\$82V-24 36 129,600 40,472 3.7% 136,009 7.00 180,269 3.0 6.0 1.5 6,690 7,000 3,625,000 2185370 46 60	36 1	129,600	40,472	3.7%						180,269	3.0	8.0	1.5								93,500
http:// 50 180,000 53,413 3,6% 189,422 10 45 00 337,500 104,840 1.0 1.0 0.5 5,860 6,260 3,657,258 14,6775 25,777	50 1	180,000	53,413								1.0	1.0	0.5								168,500
Jul 24 81 291,600 90,562 3.7% 250,002 50 382,500 108,418 1.0 5.0 0.5 4,610 4,760 3,728,286 135,003 50,0000 50,000 50,000 50,000 50,000 50,000 50,000 50,000 50,0000	81 2	291,600	90,582								₹,0	5.0		**				-			161,000
AHD 24 7D 252,000 71,427 3,4% 331,431 4.0 20 08 315,000 92,367 1.0 00 0.5 4,410 4,280 3,639,470 131,660 0.0043 20,000 71,427	70 2	252,000	71,427								1.0	00.									148,500
Son.74 69 248 400 72,638 3,5% 424,200 TI 05 05 05 05 05 05 05 05 05 000 4,500 5,000 5,000	69 2	248,400	72,638								0.5	05	05								65,000
Det-24 11 39,600 11,109 3,4% 435,378 33 08 275,000 59,549 0.5 0.5 0.0 3,840 4,940 3,617,762 123,404 0.0047	1 1	39,600	11,109								0.5	0.5	0.0	3,849	4,340	3,617,762	123 404	0.0044	بديوردن و	~	,
Nov-24 36 129,600 40,233 3.7% 475,611 2.0 3.0 u.u 22500 50.00		129,600	40,233	3,7%	475,611	∠.13	لادر	Q.U													

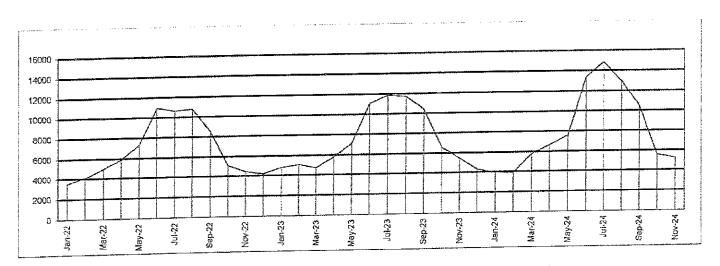




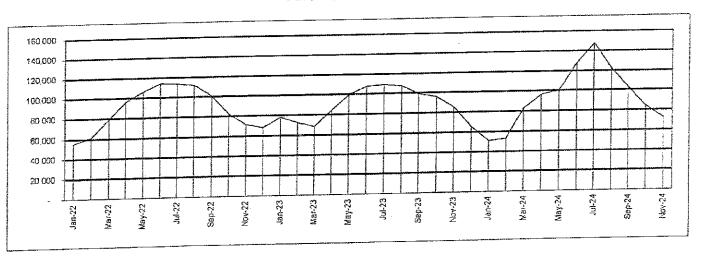
Electric Cost Kilowatts Used

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Jan-22	3547	55,070
Feb-22	4063	61,330
Mar-22	4979	79,050
Apr-22	5907	96,160
May-22	7292	106,100
Jun-22	10958	113,870
Jul-22	10648	113,590
Aug-22	10800	111,690
Sep-22	8498	100,470
Oct-22	5071	82,030
Nov-22	4451	71,240
Dec-22	4224	68,000
Jan-23	4809	77,980
Feb-23	5074	72,420
Mar-23	4730	68,320
Apr-23	5801	84,440
May-23	7128	99,300
Jun-23	11076	107,520
Jul-23	11845	109,070
Aug-23	11697	107,330
Sep-23	10438	99,140
Oct-23	6553	96,000
Nov-23	5474	85,570
Dec-23	4293	65,618
Jan-24	3972	51,236
Feb-24	3925	53,460
Mar-24	5786	82,859
Арг-24	6619	96,496
May-24	7563	100,390
Jun-24	13362	127,782
Jul-24	14832	147,621
Aug-24	12915	122,157
Sep-24	10456	102,916
Oct-24	5594	84,223
Nov-24	5209	72,179

Electric Cost



Kilowatts Used



Lake Ozark/Osage Beach WWTP Phosphorus Removal

	Inf. mg/L	Eff. mg/L		Inf. mg/L	Eff. mg/L		Inf. mg/L	Eff. mg/L
Jan-22	4.8	1.9	Jan-23	4.9	2.7	Jan-24	5.3	3.3
Feb-22	4.6	1.7	Feb-23	5.9	3.0	Feb-24	5.3	2.8
Mar-22	4.9	2.9	Mar-23	5.1	2.9	Mar-24	4.5	3.5
Apr-22	4.7	2.9	Apr-23	6.0	3.2	Apr-24	5.5	2.1
May-22	4.4	2.8	May-23	5,6	1.9	May-24	5,2	3.6
Jun-22	4.4	3.7	Jun-23	6.2	2.8	Jun-24	4.5	1.4
Jul-22	6.2	2.8	Jul-23	7.2	0.6	Jul-24	4.0	0.8
Aug-22	3.5	1.0	Aug-23	4.7	0.6	Aug-24	4.5	5.0
Sep-22	5,3	4.5	Sep-23	5.0	4.6	Sep-24	5.1	5.7
Oct-22	6.1	6.8	Oct-23	7.0	6.6	Oct-24	5.9	4.7
Nov-22	4.8	3,6	Nov-23	7.6	5.4	Nov-24	3.3	3.4
Dec-22	4.8	2.8	Dec-23	5.9	3.6	Dec-24		
Avg.	4.9	3,1	Avg.	5.9	3.2	Avg.	4.8	3,3



MISSOUR! DEPARTMENT OF NATURAL RESOURCES DIVISION OF ENVIRONMENTAL QUALITY

Discharge Monitoring Report For Municipal Wastewater Treatment Plants

		NAME	OF FAC	HITY					OCATI	ON ADDRE	SS & CIT	Y	(COUNTY	REGION
a - Tanan da Anganda d	41	the Oz	on. May seed ut history	ional WWi	Appropriate and the second		v#4************	·· more sure consequen	b 5	i Anderson	Road	mare processors was made a sing pure	print 1 , 1/2 , harmony and	Milleria	WRO
MONTH			þ	ERMIT NU			OUTFALL N	;				EATMENT			
MOV-	24	INFLU	FNT	MO-01032	141	***************************************	#00		Oxi	idation Ditc LUENT	h/UV/Stud	ige Holdin	g-sludge i		
DATE	pH.	BOD	TSS	Ammonia as N	TEMP	FLOW	Нq	doa	TSS	Ammonta es N	DO	E. coll	TEMP	% Ren BOD	TSS
	UNITS 6.0	mg/L_	mg#_	may	15.3	MGD 1 135	UNITS 7 6	Ing/L	mg/L	mg/l	mg/L	#/100 ML	"C	_mg/t_	mg/L
2	6.5				16.7	1 160	7.6		***********		9.8	e and the endpower of party consequences on the party consequences of	17.1	.,	TOTAL TO SERVICE
3	6.8				19.6	1 201	7.6		The Comme		9.9		16.1		Pre Salassander
- -	70			<u>[</u>	193	1 607	7.7			and the second s	9.6		18.6		- sector of all formations
<u> </u>	7.0		*****		19.0	2 463	7.7		· · · · · · · · · · · · · · · · · · ·	***************************************	9.6		18.8		erreproductive of the Superior of
	7.9	- Seldfor valley (a)		27.9	18.1	1.414	7.7				9.2	ļ	19.0	WOODERSTEEN ST. MICHIGAN CO.	The man or Hammer
7	70			\$1.3	16.4	1 159				0,3	9.6	 	18.0		
8	7.0	158	280	**************************************	16.8		77			1	9.9	6 3 4 1 mm	17.0		
9	6.8	100	รอก			1.178	7.7	2.3	2.6	ļ	9.9		15.6	985	99.1
10	6.8	ļ		3314E	17.3	1.124	7.7		Marian Bardin Agai	-	9.9		15,4		
11	67	 !	- C 100,004 a seco	/ st. s. 65	17.8	1.278	7.6		*************]	9.9		15.6	BUILDING SECTION	
12	7.0	·			17.2	1.102	7.9		anner or yes.	1	10,0		15.9	an	
13	1 69			26.3	16.3 17.5	1.121	7.8		er open and a second		10.4		15.3	er de vikeringskamme	
14	69	1		ZD.3		1 170	7.9		W-New	0.02	100		16.0	*	b. 11 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2
15	7.0	. 470	228	***************************************	17.2	1 123	7.9	an au		ļ	10.1		15.5	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
16	····	173	440		14.6	1.118	7.8	2.0	2.4		10,2		13.8	98.8	98.0
17	7,0				16,4	1 140	7.6				10.3		14.4		
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diamento and annual annual		1 Mrs. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	ļ		18.6	1.119	7.9				9.7		17.1		<u> </u>
19	7.0		e constant in many	No. of Continue	17.1	1.872	7.6		ļ		98		16.4		
20	6.8		<u> </u>	24.6	16.7	1.223	7.6			0.05	10.0	man warner ware transfer brekenne	15.6	<u> </u>	
21	7,1				15.3	1.157	8.0	er community.			10.6		13.5		
22	71	: 188	1.322	wildow de de service construir const	15.1	1.089	8.0	19	33		10.7		129	98.9	99.
23	2.3	- 1	-		15.3	1 154	7,6		<u> </u>		10.9		12.1		
24	7.0	-			16.4	1.159	7.7				10.7		13.3		
25	6.5	·		30.2	17.2	1 113	8.0		<u> </u>	0.04	10.5		14.5		1
26	6.9		**************************************		14.2	1.145	7.6		<u> </u>		41.1		12.0	Ì	
27	7.0	165	146	ļ	15.7	1.098	7.6	2.2	4.6	*	10.7	1	13.1	937	93.
28	68		1	<u> </u>	13.5	1 204	76	ļ			11.1		115	***************************************	an 17,140° 2711
29	6.8		- i como come com		12.0	1.005	7.5	ļ,			11.5		10.7	1	***************************************
30	6.9		-	ļ	13,8	1.146	7.1	ļ	-	Trailers consequences	11.4	a Ala Hanna dana anama	11.0		
Total			Andrews		The same of the sa	37.077	***************************************	-	 			ini beringangan	***************************************	-	-
Avg		166	244	27.3	16.4	1.236	***	2.1	3.2	0.10	10,2	n n	127	60.00	
Min	6.7	158		24.8	12.0	1.005	7.1	1.9	24	and and also are the property		0.0	15.0	98.7	98
Max	7,9	173		30.2	19.6	2 463	8.0	2.3	4.6	1	9.2	0.0	10.7	98.5	96. 99.

nd on yelyginad 14 Mg shirild Mg Anghailmaylingo a ben	MONTHLYEF	TIMON :	DRING	AUD	RTERLY EFF	MONITORIN	IG	MONTHLY	Y INF M	ONITORING
DATE	Phosphorus mg/L	TKN mg/L	Nitrite+Nitrate mg/L	Oil & Grease mg/L	TR. Cadmium	Selenium mg/t	Hardness mg/L	Phosphorus mg/L	TKN mg/L	Nitrite+Nitrate mg/L
1	and the second s	İ	TOTAL SECTION AND SECTION AND SECTION ASSESSMENT AND SECTION ASSESSMENT ASSES						to Stranger	\$1. V. A. B.
2	AND THE PROPERTY OF THE PROPER		The second secon			 				
3			nari katikana ku ya Mayumiya birili, afi 11. gaji mgami	TO THE RESERVE AND THE RESERVE	man negative mentile to the comment of the c	t entlement on recommendations	A Thirt after a course province of the	***************************************	neer de ee ritgigde e ee repear ee	1
à.		en curinor ser excepte	A Charles of the Control of the Cont				in the territory of the second second		· · · · · · · · · · · · · · · · · · ·	The second developer of the second se
5	oranomic planeteria processo con conference acasacca e decado		and and it is not the control of the	ni zilet iskurlara (Miros), i za mosensovki	ar or were an expensive and a second				te moderni idamityri c	
6	3,38	< 0.130	18.8	et in vettra titer i recordera i dia vali factoria di sui in-	Fredrik et Ster Der General volla 1939 blengen]		***************************************	3.28	30.9	< 0.030
7						de cate constante en en en en en en en	a - Undertainment de consens			- Cara, v. salante - coma di
8	- 1/14	in 1965al a Pollockia com in co	er også regermengermen omtegtingspropetioners fra entreter och beny		Wite - Scraphillelin, revisionership subsect disassessi			ude search in Localistic - Kondition in the control of the control	******************	The second secon
9	apoid for a . Dhonglobana let 10 con			nas me agreement as militar helder and a constant and a	production of the second second			metroprocept magnitude , have stated a supplied in supplied	~	and a second companion of the second control
10			· · · · · · · · · · · · · · · · · · ·		A comment with a mode com-	***************************************	ļ	other account of the country of the community		
11		referente vertis stema anno	om, anii 200 ap. jig. , y ,gen da, 142,000 (140), yge 12,000, d	and a library and a second			<u> </u>			na a a colorest con munus estamany et a que estama e qu
12		Tank Park State Security of Persons of the Security Secur		****	gy frankrisson ann agailt ann ag saile saile an agailt an ag			or Windship in standard transcompressionary	<u> </u>	
13	*** and \$1 - a	TTW. (Character edited)	e saasadin di Mille di siga kandin ninga yang nga gang nga ganggan saasadi	v. i entre v. entre ne commente essenante esse	and accommodate control accommodate accomm			Andrean Commission of the Comm	-	and an experience of the second se
14	forth and to a rear to make too continuous consequences	ter and the second seco	No. of characteristics and control of the character			+	1			process recognized, and March March Commencers
16	2 May 78. 1			The second series of the second second		· · · · · · · · · · · · · · · · · · ·	*	managed of reference to the season property of the season		ания пода подобитующих, на в 11 година или, пофилания
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19		 	professional framework regions or age and the same regions	Sar	The second secon		PARTECULA SELECTION OF ANALY	er old de de comment de la commentación de la commentación de la commentación de la commentación de la comment		The second secon
20		***	en promine a semperary manufacture — an extra constant backware		- to the second of the second	<u>i</u>	No. 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1	100 To		to the second accommodate and an engaging of the second accommodate and accommodate accomm
21			*	commence of the state of the st	or and address of the second s	r from automir un ocumento	house on a statement of	marron en financia mandria anche i discrete di come con di mallesta e con		- Na 3 sandaga again - paga again
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23	FEBRUARY SERVICE TO CONTROL AND SERVICE AND ADDRESS OF THE SERVICE AND ADDR		TO The main and differ the factors from particular and demands reproduce and consequences of	· · · · · · · · · · · · · · · · · · ·			Hangling da	***************************************		
24		TOTAL STREET AND	***************************************	l troit de Albanda consensament en quarran s	* 7 ***********************************	- 10 A / 10 A		THE PARTY FRANCE CONTRACTOR CONTR	ļ	annes anna conses
25		. 4	The second secon	***			1.70 Sec. 2001	To the section of the	-	of the state of th
26		· · · · · · · · · · · · · · · · · · ·							ļ	
27	The control of the second seco					*			<u> </u>	
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20			-100.00.17 -100.00	V - V Cable or Vocation Common areas		ļ		- array and the second	***************************************	
50	The state of the s	- Add according to the control of		en emme en experimentale en en el écolo de encondrate en en el écolo de encondrate en en el écolo en en encondrate en en el écolo en el			194	Market of an approximate a part of the par	1	
Total	3.28	* 0.130	18.8	g garangia diki sadikini kisasiani marking 'ggo,'ilikang Asagara pangay.	Capital Annual Annual State St	and the second s		3.28	60.0	
Avg	3.38	< 0.130		Hann de de de de la competition (1800 de la competitio	region de la minima e de mission de la companya de	and the second	ب رسره سیست	1	30.9	
Min	3.38	< 0.130		THE STREET, STATE STATE STREET, STATE STATE STREET, STATE STATE STREET, STATE STREET, STATE STREET, STATE STREET, STATE STATE STREET, STATE STAT	Park Marie Control of the Section of	anne e de constituti e como e de como esperante e como e de como e de como e co	Promise of the state of the sta	3.28	30.9	A STATE OF THE PARTY OF THE PAR
Mex	3,38	< 0.130	i				······································	3.28	30.9	

OPERATIONAL CONTROLS/LABORATORY TEST REQUIRED FOR "ACTIVATED SLUDGE" PROCESSE:

	Start In Sant Sant Spirit Spirit	#1 A	eration ma	sm, O-Dh	th, Etc.	#2 Ac	eration Ba	sin. O-Dite	The Figure	SLUDGE" PROCESSES [*Weather Conditions]			
	DISP.		MIXED	LIQUOR	**************************************		MIXED	LIQUOR		Outside	C. 2 6 6 1 1 1 1	C1181178178	
Street N. regardens	LBS. DRY	* 00	** MLSS	*Settle:		* DO	** MLSS	*Settle	ability	* Amblent	*RAIN	Times	
DATE Nov-24	WEIGHT	wa m de		*30 min	Temp			*30 min	Temp	Temp			
A TANKS OF THE PARTY OF THE PAR	Same and the second and second second	rng/i	mg/l	m.	o C	mg/l	mg/l) (7.1 ************************************	o C	OF.	inches		
2	×	3.2	3,820	320	16.4	31	4,100	390	17.1	A.	O	7:30	
The state of the s	ang manggaran panggarang manggarang manggara	3.7	3,900	320	15,9	3.4	4,200	360	16.7	49	0	7:30	
-0.100 × 100	Total and the second se	2.6	3,910	320	18.6	23	4,200	360	187	- 6 5	0	7:30	
4	d representation of the little of the second	36	4,140	340	190	32	4,200	340	192	63	14	7:30	
	The second of th	13	4,070	330	19.0	13	4,660	450	19.1	6	2.1	7:30	
б	Andrew State of the Control of the C	21	4,250	360	17.8	2.7	4,430	410	183	48	0	7;30	
	and control the state and control to the control of	1.5	4,160	400	16.8	2.3	4,110	370	17.1	47	0	7:30	
8	The state of the s	2.3	4,950	410	16.1	3.3	4,130	360	16.5	48	CORRECTION AND ADDRESS OF THE PARTY OF THE P	7:30	
9	-	2.7	4,290	350	16.0	4.2	3,980	320	16.3	55	0.3	7:30	
10	A sulfi commence o secure paper successor el sequinario en como	40	3,840	320	16.2	4.0	4,270	330	166	E-1	0.2	7:30	
11	5,554	2.7	4,050	330	15.9	3.5	4,210	330	16.4	45	0	7:30	
12	3,603	2.8	3,990	330	15.2	4.3	4,090	330	15.7	42	7 0	7:30	
13		3.3	4,080	320	15.7	3.6	4,270	330	15.8	50	0	Annual Street Street Street	
14		3.1	4,390	330	15.7	3.4	3,610	200	16.0	1 53	·	7:30	
15		3.1	4,430	340	13,8	3.8	4,040	310	14.5	38	0.1	7:30	
16		3.7	4,110	310	14.9	4.8	3,820	300	15.1	42	-	7:30	
17		3.2	4,160	300	15.4	47	3,920	280	15.5	52	1 0	7:30	
8 **	No.	3.5	4,280	280	17.7	45	4,180	270	17.3	are and the second seco	0	7:30	
19		1.6	3,930	280	16.7	2.3	3,970	280	16.9	1 63 1 53	0.5	7.30	
20	8,827	₹.5	3,760	280	15.6	3.5	3,810	240	15.7	The second second second second second second	0.8	7:30	
21	6,665	2.3	4,050	280	13.4	4.8	3,710	240	13.9	48	0	7:30	
22	5,485	3.5	4,180	280	13,1	5.5	3,680	240	13.1	- Francisco	1 0	7:30	
23		4.1	3,720	260	12.2	5.4	3,640	250	12.5	39 35	0	7:30	
24		3.6	2,150	250	1 13.5	43	3.840	250		The Administration of States of the States o	0	7:30	
25	Annual Control of Cont	3,1	4,100	240	14.7	3.2	4,250	260	13.5	48	0	7,30	
26	5,945	4.6	3,960	240	12.0	46	4,280	A PARTICIPATION OF THE PROPERTY OF THE PROPERT	14.8	54	0	7.30	
27	3.153	3,2	4,290	250	13.2	33	**************************************	and was to the control of the contro	13.0	32	0	7:30	
28	the transfer and the state of t	3.5	4,080	250	17.2	·	3.860	250	13.2	46	0	7:30	
29		4.1	3,910	250	10.8	4.7	4.080	The second secon	12.5	37	0.2	7:30	
30	engen i presionante santes necessarios estables a la companya.	5.0	3,840	250		111	4,270	260	11.6	30		7:30	
-WATER OF COMMUNICATION	1	1	H. A.A.	KOU	11.9	5.3	4,340	270	11.8	39	0	7:30	

TESTS PERFORMED BY (PRINT)		
) South take	PHONE #	DATE
SESONT ADDRESSED BY GENERAL	(573)365-0455	12/4/2024
Cary Middle Committee 1 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PHONE #	DATE
Recurred Dally Official States	(573)365-0455	12/4/2024

*Required Daily (Monday - Friday)

**Required I/week

Lake of the Ozarks Regional WW fp 1 #3 Anderson Road LAKE OZARK, MO, Miller

State of Missouri Department of Natural Resources National Pollutant Discharge Elimination System (NPDES) Discharge Monitoring Report (DMR)

Permit Number	Outfall Nuraber
MO0003241	GHA
Monitoria	ig furled
11 1/24	F1/N0.24
NODI:	the base of the same of the sa

Parameters	R	eparting Requireme	rats	Unli	Reporting l	Requirements	Unit
Flow, in conduit or thru freatment plant	44044	16 1y1 5> 19 1a	非公告化的	******	2.463	1.236	Mgal/d
Man. Location : lind of Pipe	·····································	# \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	\$P\$ \$P\$ \$P\$ \$P\$		Daily Max, Monutoring Regulard	Monthly Avg.:Montoring Regured	
Sample Type: Total Measured		1	3		1	in the second	:
Prequency; thely	! !				2 3		:
BOD, 5-day, 20 deg. C	*****	2.3	2,1	rup/L	*4***	14.84	*****
More Location : End of Pipe	******	Weekly Avg.:45	Monthly Avg.:30	•	****	************************************	-
Sample Type: 24 Hour Compasite	: - -				*		
Proguency: Wookly	6 8 3 3 4	1	**************************************	1	6 1 2 3		
Total Suspended Solids (TSS)	化学学 **	4.6	THE COLUMN TWO IS NOT THE OWNER OF THE COLUMN TWO IS NOT THE COLUM	mg/L	2 6 W 4 M	*4444	10 14 19 14 15
Mos. Lavanosa: End of Pipe	*********	Weekly Avg.:45	Monthly Avg. (30)		5.54 *4 * 5.8 # * \$		-:
Sample Type: 24 Hour Composite	e ! !	:	1	ļ.		* 	:
traquency: Weekly	P N	•	i i'	; {	•) }	i k
Phosphorus, total (as P)	3.3%	*4.6.4.6	3.3%	ingd.	表示语言		- Nerge
Man Louisson: End of Pipe	Daily Max.4Menitoring Required	· 安全办公司 (水类制的水	Monthly Avg.:Monitoring	1	紫化水浴水鱼水水水水	· oznas _s auses	1
Sample Type: 24 Hour Composite	widowa		Required	i.		1	1
Frequency Monthly	4 4	:		r : :	ने -		
Nitrogen, Kjeldahl, total (as Ni	≪0.130	शं का है ज ≒	≪0.130	mg L		本作签券 走	中华多中亚
Mon Location. End of Pipe	Daily Max.: Wonboring Required	100000 1000 1000 1000 1000 1000 1000 1	Monthly Avg.:Monitoring Required		本个本场净,然为相交通	你必要如果"章章表示	
Sample Type: 24 Hour Companie	* -		i adan oa		4 4		i.
Frequency: Monthly	i d		1	1	1	**************************************	d d
Nitrite plus nitrate total (us N)	18.8	1 李多年录表	18.8	mgd	计引通路 键	*****	海塘的岭南
Mon. Locations: End of Pipe	Daily Max : Vionitoring Required	**************************************	Menthly Arg (Monitoring		◆本本本漢·東京提出 =	连去局部在"谷蚕灰的东	. }
Sample Type: 34 Hour Composite	. verduiten	ŧ	Required			J	
Frequency: Monthly	1 1	;	1 1 1	-		el L	i I
Nitrogen, ammonia total (as	0.30	*******	610	nig'l	医舒克斯	B. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	n \$2.4 4
Mon. Lucation: End of Pipe	Daily Max:Mannering Required	在我们要看,更本的证法	Monthly Avg. (Monitoring		李米尔尔 4 4 4 4 4 4 4 1	婚女难撤弃************************************	~ i
Sample Type, 24 Hour Composate	:		Required	:			
Frequency: Weekly			(§		d 4	į

Leke of the Ozarks Regional W//TP 1 #3 Anderson Ruset LAKE OZARK, MO, Miller

State of Missouri Department of Natural Resources National Pollutant Discharge Elimination System (NPDES) Discharge Monitoring Report (DMR)

₽> 11	7.1	* 1 * * *	8.0	SU	*****	* ***	*****
Mos Logarian : Food of Pipe	Matemanis6.0	Protection	9 Gramminal C	1	*******		1
Sample Type: Grah	i i	÷				i di	,
Frequency: Weekly		1		1	1	8	1
BOD, 5-day, percent removal	48448		98.5	₩,	*4.4.4	88898	多数和自安
Mon. Lecation : End of Pipe	40042,03449	有 19 man \$ 4 man \$ 4 man \$ 4 man \$ 4 man \$ 1	Monthly Avg. Min.885		********	****	
Sanyile Type: Calculated	1	i.	:	Ï	1 - -	į	
Prespector: Mentily		;	1	i i		1	
Suspended Solids, percent removal	特许爷尽会	% 45 ≥ 17 %	95,8	9/0	# 73 th 1 41	25 da € 42 M	. ****
Mon. Location : End of Pipe	及各种作为 ² 中经存存器	· · · · · · · · · · · · · · · · · · ·	Monthly Avg. Mu. 185		******	李章珍典称·李章多献世	÷
Sample Type: Calculated	1) }	ř	ļ.	3	
Frequency: Monthly			i.	ý] [: :1	1
Comments:	The state of the s	* ************************************	All and the second of the seco	·		AND IN THE STATE OF THE STATE O	3

Lake of the Ozarks Regional WWTP 1 30 Anderson Road LAKE OZARK, MO, Miller

State of Missouri Department of Natural Resources National Pollutant Discharge Elimination System (NPDES) Discharge Monitoring Report (DMR)

Permit Samilier	Oulfall Number
A000103241	INFIM
Monitori	ug Period
11.1/24	11/30/24
NODI;	*3294

Parameters	H.	eparting Requires	ients	Unit	Reporting	Unit	
10D, 5-day, 20 deg. C	林典安本教	明 作 年代 作	166	nig/f	* ****	\$40.54	*****
don, Lecturen: Influent	国的在书户市外乡关市	和順樂日本。古小風不安	Mondily Avg.:Monitoring Regulred	· · · · · · · · · · · · · · · · · · ·	· 斯拉斯多尔/克洛斯斯拉	1830 4 30 12 13 4 4 40 20	
Sample Type: 24 Hour Composite					:		<u> </u>
Frequency: Monthly	į				<u> </u>		i.
Total Suspended Solids (TSS)	* 8 E-W-\$	4 24 4 4 4	244	neg l	14244	į + k#<1	李沙龙连体
Mon. Location.: Influent	如日本 · · · · · · · · · · · · · · · · · · ·	春浓维养春**维维华春林	Monthly Avg.:Monitoring Required		霍瑞尔伯男·拉查班马作	中联相缘缘。例始依证的	
Sample Type: 24 Hour Composite					· {	1	
Frequency Monthly							
Nitrogen, ammenia total (as Ni	30.2	****	27,3	my L	辛辛辛辛水	6+044	3 4 9 4 5
Mon. Location.: Inflgent	: Daily Max.: Monitoring Required	****	Monthly Avg. Monitoring Required		豪摩克的10g5 电激减力 **	********	
Sample Type: 24 Hom Composite	÷ ÷				Ų		
Frequency Manthly			O. Autob	i i	1	£ :	
Phosphorus, total (as P)	3.28	***	3.28	mg/I,	*69*7	蒙春妆彩的	no de acturio
Mon. Location: Influent	Daily Max.: Monitoring Required	有知识本法。本本化次下	Monthly Avg.tMonitoring Required		紫色色有液,自慢慢息消	· · · · · · · · · · · · · · · · · · ·	
Sample Type: 34 Hour Compassite		•	į	il Il	Ĭ	λ.	e e
Fraguency: Monthly				ii b	7	· ·	ŧ.,
Mitrogen, Kjeldahl, total (as N)	30.9	李安本寶等	30,9	mg l	A 100 M 20 M	****	**************************************
klan, Lucction: Influent	Daily Max:Monitoring Required	· 公安委委者 4 专专审非	Monthly Avg.:Monitoring Required		के में के कर _् त्रभव्य कृ	*************************************	· - \$
Sample Type, M Hour Composite			711 4 601 411	1	1	i;	:
Frequency: Monthly	: 1	1				ļ.	į.
Vitrite plus nitrate total (us Ni	<0.030	企作自由	<0.030	rig-t	3.8443	****	本彩日书 2
Mon Location; Influent	Daily MaxaMonnacing Required	Fakg L t Agen G L	Monthly Avg.: Monitoring Required		《水安沙莫·都克洛丁之	*******	
Sample Type: 34 Hour Composite	i i	!		i i	i :	V.	ļ
Frequency: Monthly	\$		÷ (1	į.	¥	i;

Lake of the Ozarks Regional WWTP 1 #3 Anderson Rose LAKE OZARK, MO, Miller

State of Missouri Department of Natural Resources National Pollutant Discharge Elimination System (NPDES) Discharge Monitoring Report (DMR)

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eSignature Gary Rutcheraft	Submission Date December 4, 2024	User Phone Number (573)365-41458	

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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 managementand 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 2024

Submitted by Alliance Water Resources, Inc. for the January 2025

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		E.coli Coliform Colonies/100 ml	Ammonia as N mg/L	O&G mg/L
Monthly/Quarterly Avg	2.6	3.6	N/A	0.0	0.07	< 2.0
Peak Day	3.3	5.3	7.9		0.15	< 2.0
Percent Removal	98,8	98.2	N/A		N /A	N/A

NPDES EFFLUENT LIMITATIONS

	BOD mg/l	TSS mg/l_	На	E.coli Caliform Colonies/100 ml	Ammonia as N mg/L	O&G mg/L
Monthly/Quarterly Avg Weekly Average	30 45	30 45	6-9	126 630	3.1	10
Daily Max				N/A	12.1	15

PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 0.862 MGD or 29% of Permitted flow with Lake Ozark contributing 14% of the total flow and Osage Beach contributing 86%. Daily influent flow BOD and TSS data is presented in Table A. Daily flow for the month and rainfall are shown in Figure 2. A three-year flow history for each of the two cities is presented in Table B.

Organic loading for the month was 48875 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 61,200 gallons and 17,624 pounds dry weight solids.

493,235 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 247,500 gallons with a level of 3.0 feet in Tank 1 and 2.5 feet in Tank 2.

WASTEHAULERS

The plant received 50 loads of septage during the month totaling 112,000 gallons.

WWTP OPERATIONS

- Decanting digesters and wasting weekly.
- Normal operations.
- We pulled and cleaned the UV modules on the 4th of December, then put them in the UV control room for winter season storage.

WWTP MAINTENANCE AND REPAIR

- Performed routine maintenance throughout the month as per Maxpanda Maintenance Data Management software schedule.
- We had a flat on the sludge truck on the 10th of December and JCB Tire came and fixed it that day.
- We started noticing that Clarifier #2 gear box was leaking gear oil on the 26th of December, so we called PMF, and they came down on the 3rd of January to check it out. They think they may have just overfilled it, so they drained some of the oil to see if that was it.

SAFETY

 We started a new monthly Safety Meeting process to where the employee is assigned a safety meeting topic through our AWR UKG Learning site which is due by the 15th of each month. This month's topics were Handling Sodium Hypochlorite, Housekeeping Awareness, Ladder Safety: Safe Use, Lawn Mower and Lawn Care Safety & Fire Safety: Fire Prevention

REGULATORY AGENCY, INSPECTION AND REPORT

We filled out the new EDMR on the EPA MoGEM website on the 7th of January.

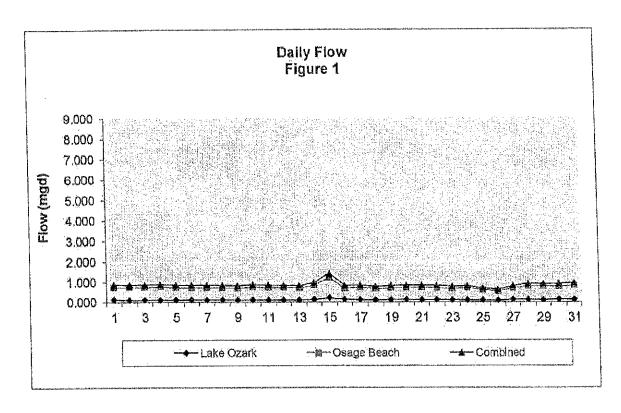
MISCELLANEOUS AND RECOMMENDATIONS

 We have attached a copy of the updated 2025 Plant Inventory and 2025 ERP, (Emergency Response Plan) for review.

TABLE A LAKE OZARK/OSAGE BEACH WWTP

MONTH OF December 2024

DATE			FL	OW			В	DD 5 MC	7/L	TSS MG/L			
10.140.653812314736125151515151515151515	RAIN FALL IN.	LO mgd	OB mgd	COMB mgd	% LO	% OB	LO mg/l	OB mg/l	COMB mg/l	LO mg/l	OB mg/l	COMB mg/l	
1-Dec	0	0.133	0.744	0.877	15.2	84.8				T			
2-Dec	0	0.117	0.750	0.867	13,5	86.5			******************************	orf same and in the date of the same of			
3-Dec	0	0,123	0,750	0.873	14,1	85.9			· · · · · · · · · · · · · · · · · · ·	**************************************	.,.	(v) (d) d	
4-Dec	0	0.117	0.765	0.882	13.3	86.7		~*************************************			delineration of the second		
5-Dcc	0	0.124	0.734	0.858	14.5	85.5			videa Mitalinia de la composición del composición de la composición de la composición del composición de la composición del composición de la composición del composición del composición del composición del composición del composición del composic		**************************************		
6-Dec	0	0.126	0.727	0.853	14.8	85.2	283	173	173	248	130	150	
7-Dec	0	0.129	0.725	0.854	15.1	84.9			- Horni - Hillion - Hillion		- interconstruction	Market Transcription of the Control	
8-Dec	0	0.128	0.713	0.841	15.2	84.8			***************************************				
9-Dec	0	0,116	0.702	0.818	14.2	85.8			**************************************				
10-Dec	0	0.111	0.752	0.873	12.7	87,3							
11-Dec	Q	0.113	0.740	0.853		86.8					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
12-Dec	0	0.114	0.726	0.840	13.6	86,4							
13-Dec	0	0,111	0.712	0.823	- warner warner	86.5	263	205	208	190	110	1,78	
14-Dec	0.1	0.138	0.840	0.978		85.9							
15 Dec	0.5	0.204	1.221	1.425	20.00	85.7							
16-Dec	0	0,144	0.688	0,832		82.7							
17-Dec	0	0.118	0.731	0.849		86.1							
18-Dec	0	0.114	0.564	0,778	3 14.7	85.3	328	175	18	3 348	122	170	
19-Dec	0	0.126	0.697	0.823	in the second	84.7		***************************************					
20-Dec	0	0.125	0.709	0,834		85.0							
21-Dec	0	0.117	0.722	0.839		86.1							
22-Dec	0	0.128	0.705	0.83	······································	84.6			<u> </u>				
23-Dec	0	0.117	0.674	0.79		85.2	· · · · · · · · · · · · · · · · · · ·	1				5-4	
24-Dec	0	0.101	0.708	0.80	ii Lananianio com	87.5						514102320190 W Walkinson	
25-Dec	0	0.092	0.606	0.69		86.8				-			
26-Dec	0	0,082	0.541	0.62		86.8	***************************************		_		· Kanadayan anana		
27-Dec	0.2	0.130	0.683	0.81	and become more	84.0	258	3 18.	5 31	3 20	160	31	
28-Dec	0	0.131	0.789	0.92		85.8						***	
29-Dec	0	0.117	0.791	0.90		87.1					1		
30-Dec	0	0.145	0.772			84.2		····					
31-Dec	0.2	0.129	0.818	0.94	13.6	86.4					-		
SUM	1.9	3,820	22.909	26.729				_	**************************************				
AVG		0.123	0.739	0.862	14	86	283	185	219	248	131	204	



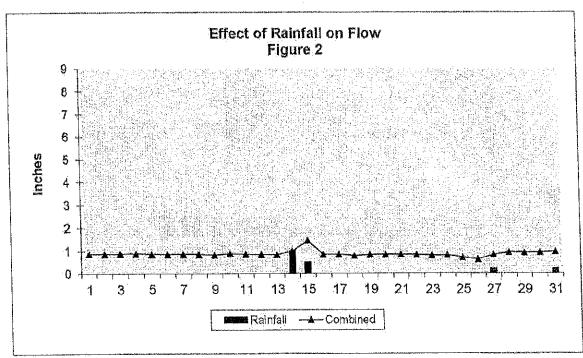
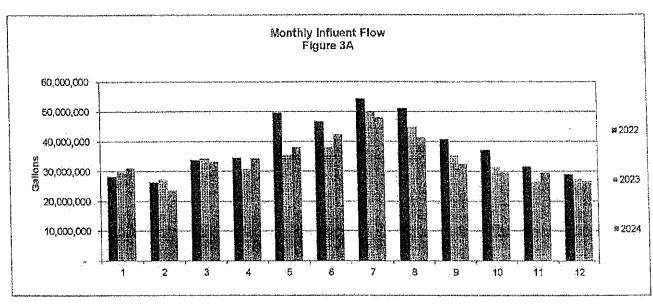
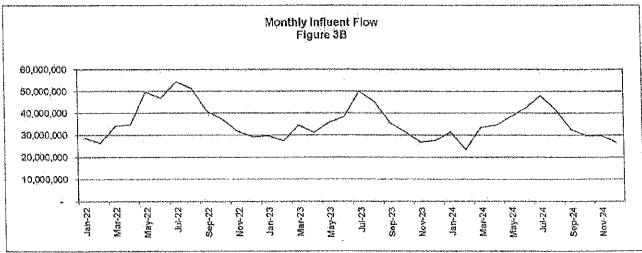
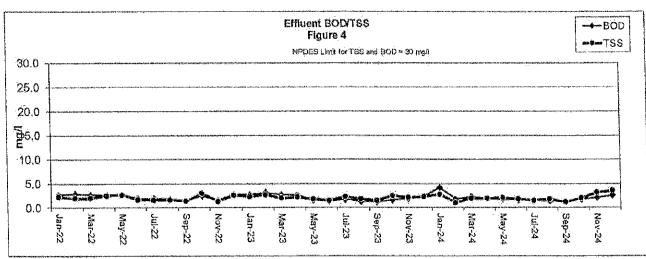


TABLE B JOINT SEWER BOARD Monthly Flows

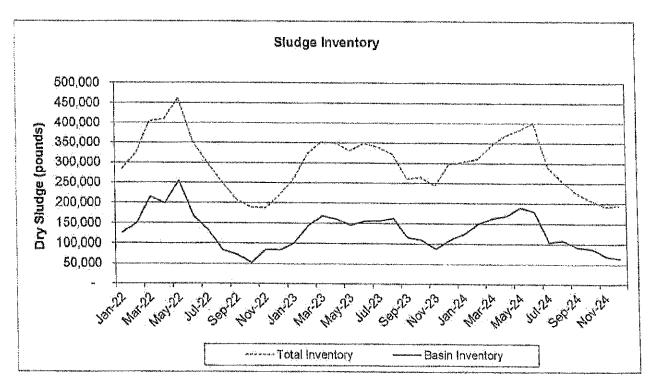
2022	RAINFALL	OSAGE BEACH	LAKE OZARK	TOTAL %
January	1.7	23,599,000 83%	4,824,000 17%	28,423,000 100%
February	3,8	21,853,000 83%	4,610,000 17%	26,463,000 100%
March	5.2	28,266,000 83%	5,657,000 17%	33,923,000 100%
April	6.3	28,580,000 82%	6,088,000 18%	34,668,000 100%
May	9.1	41,076,000 83%	8,597,000 17%	49,673,000 100%
June	3.3	39,125,000 84%	7,563,000 16%	46,688,000 100%
July	2.6	45,728,000 84%	8,591,000 16%	54,319,000 100%
August	6.8	42,549,000 83%	8,716,000 17%	51,265,000 100%
September	2.4	34,238,000 84%	6,499,000 16%	40,737,000 100%
October	5,2	31,814,000 86%	5,317,000 14%	37,131,000 100%
November	4,5	26,905,000 85%	4,739,000 15%	31,644,000 100%
December	1,9	24,749,000 85%	4,376,000 15%	29,125,000 100%
Decinous	****	Company of the property of the second	ing and an analysis of the	The Market State of the Control of t
	52.7	388,482,000 84%	75,577,000 16%	464,059,000 100%
2023	RAINFALL	OSAGE BEACH	LAKE OZARK	TOTAL %
January	2.8	25,972,000 87%	3,812,000 13%	29,784,000 100%
February	3.9	23,448,000 86%	3,820,000 14%	27,268,000 100%
March	6.2	29,920,000 87%	4,559,000 13%	34,479,000 100%
April	1.3	26,903,000 87%	4,085,000 13%	30,988,000 100%
May	2.1	29,783,000 83%	5,950,000 17%	35,733,000 100%
June	0.9	32,155,000 84%	6,040,000 16%	38,195,000 100%
July	7.1	42,263,000 85%	7,678,000 15%	49,941,000 100%
August	8.3	37,375,000 83%	7,664,000 17%	45,039,000 100%
September	2.5	29,574,000 83%	5,917,000 17%	35,491,000 100%
October	3.2	26,468,000 84%	5,067,000 16%	31,535,000 100%
November	1.0	22,375,000 84%		26,657,000 100%
December	3,4	23,026,000 84%	***	27,471,000 100%
				100000000000000000000000000000000000000
	42.7	349,262,000 85%	63,319,000 15%	412,581,000 100%
2024	RAINFALL	OSAGE BEACH	LAKE OZARK	TOTAL %
January	4.8	26,487,000 85%	4,806,000 15%	31,293,000 100%
February	1.1	20,148,000 85%	3,491,000 15%	23,639,000 100%
March	5.1	27,206,000 81%	6,214,000 19%	33,420,000 100%
April	7.3	28,925,000 84%	5,502,000 16%	34,427,000 100%
May	7.4	31,860,000 83%	6,377,000 17%	38,237,000 100%
June	4.8	36,193,000 86%	6 6,117,000 14%	42,310,000 100%
July	4.5	40,465,000 849		47,932,000 100%
August	6.4	34,988,000 85%		41,403,000 100%
September		27,348,000 849		32,460,000 100%
October	1.5	25,231,000 85%		
November		25,536,000 869		
December		22,909,000 869		
. Western			******	
	31.5	347,296,000 849	64,002,000 16%	411,298,000 100%

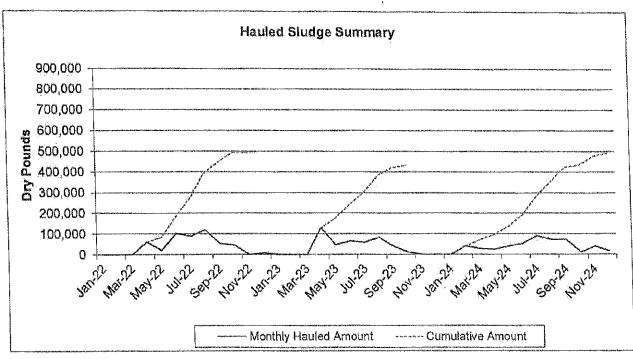






																	6 661	MLSS	Total Div	Accepted S	entace
						Ros	in Depth	<u> </u>				ket Deoths.		MLSS in			ILSS Inventory	MLOS M. Callde S	Hudge Inventory		Gallons
				Sludge		Tank #17	noir #2.	18#1 E	lasin Gallons	#Dry	Class#1	Clarf#2 C			ILSS AB #2	Gallons	157.136	0.CO51	283,800		27,000
	Loads	Gallons	# Dry		Annual Cumulative # Dry	4.5	3.0	0.0	337.500	126,664	1.0	35	0.0	5,060	5,180	3,679,929	174.393	0.0057	324,513		68.000
Jan-22	0	-	0	4.5%		7.0	3.0	0.0	450 000	150,120	4.0	1.5	0.0	6,280	5,030	3,697,691		0.0052	405,135		46,000
Feb-22	Ð	-	O	4.0%		6.0.	7.0	0.0	585 000	214,672	9,0	10.0	0.0	5 870	5,760	3,937,478	190.464	0.0064	410,021		24,500
Mar-22	0	-	· C	4.4%			5.0	0,0	540,000	198,255	10.0	10.0	1.0	7,100	5,600	3,998,668	2:1,765		462,281		85,000
Apr-22	47	169,200	62,120	4.4%	62,120	7,0	7.0	0.0	697,500	254,503	2.0	10.0	1.0	6,290	6,630	3,858,572	207,778	0.0065			93,500
May-22	15	57,600	21,017	4:4%	83,137	8.5		0,0	495,000	167,049	4.5	05	1.5	5,780	8,010	3,753,952	164 247	0.0059	351,297		68,500
Jun-22	84	302,400	102,052	4.0%	185, 189	7.0	4.0	0.0	427.500	132,051	8,0	3.0	1.5	4.740	5,860	3,860,524	166:296	0.0052	298,348		900,000
Jul-22	- 80	288,000	88.961	3,7%	274,150	7.0	2,5	0.0	270,000	83,629	1:5	1.0	0.5	5,490	5,420	3,666,119	166,789	0,0055	250,418		68,000
Aug-22	108	388,800	120,426	3.7%	394,576	2.0	4.0		247.500	72,593	1.0	1.0	0.5	4,650	4,150	3,657,238	134,359	0.0044	207,251		71,000
Sep-22	51	183,600	54,073	3.5%	448,649	3,5	2.0	0.0	160 000	52,863	0.5	0.5	0.5	4,590	4,393	3,639,476	136 286	0 DD45	189,149		
Oct-22	42	151,200	44,405	35%	493,054	1.0	3.0	0,0	292,500	85,381	1.0	1.0	0.0	4,330	2,340	3,635,524	101,573	0.0034	156,954		89,500
Nov-22	·*-	4	0	3.5%	493,054	40	2,5	0.0		84,722	1,5	1.5	0,0	4,510	4,270	3,653,286	133.756	0.0044	218,478		71,500
	8	28:800	7,746	3.2%	500,800	4.0	3.0	0.0	315,000	102,082	1,0	1.0	0.0	4.880	5,380	3,635,524	155,543	0.0051	257,625		74,500
Dec-22	8	20,000	,,,	3.2%		5.0	3.5	0.0	382 500		20	2.0	0.0	6,060	.5,570	3,671,048	177,862	0.0058	321,997		87,300
Jan-23	9	-	0	3.2%	•	6.5	5.5	0.0	540,000	144,115	1.0	20	1.0	5,310	6.640	3,695,714	184,213	0.0060	352,347		15,500
Feb-23	-	•	0	3.2%		7.0	7.0	0,0	630,000	168,134	1,0	1.0	1.0	6,200	8,170	3,678,952	189,771	0.0062	350,138		71,500
Mar-23	Ü		129,223	3.7%	129,223	7.5	4.0	0.0	517,500	160,367		90	0.5	5.120	6,530	3,790,453	184,142	6,0058	330,226		02,500
Apr-23	116	417,000		3.2%	175,970	6.0	6.0	0.0	540,000	146,084	9.5	4.0	0.5	5.020	6.440	3719.405	193 254	0.0062	346,207		31,500
May-23	48	172,800	46,747	3.8%	241,332	6.0	50	0.0	495 000	154,953	1/5	3.5	0.5	6.030	5,710	3.719.405	182.086	0.0059	339,287		20,560
Jun-23	58	208,800	65,362	3,8%	299,639	6.0	5.0	0.0	495,000	157,200	2.0		0.5	5,600	4,910	3.657,238	160 285	0,0053	322,658		66,500
<i>3</i> ย∖-23	-51	183,600	58,307		383,226	7,0	4.5	0.0	5;7,500	162,373	1.0	1.0	0.5 0.5	4.780	4,750	3,657,238	145.339	0.0048	260,842		64,000
Aug-23	74	266,400	83,587	3,8%	422,497	7,5	0.5	0.0	360,000	115,503	1.0	1.0			5,880	3,039,476	154.850	0.0051	264,426	40 4	85,500
Sep-23	34	122,400	39,271	3,8%	433,621	7.5	0.0	0.0	337,500	109,776	0.5	0.5	0.5	4,530	5,540	3,692,762	155.374	0.0050	243,194	30	59,000
Oct-23	9,5	34,200	11,124	3.9%	433,021	3.0	3.0	0.0	270.000	87,820	20	20.	0,5	4,550	8.450	3,671,048	186,455	0.0061	296,230	29	77,000
Nov-23	0	-	Ō	3,9%		4.5	3.0	0.0	337,500	109,775	1:0	30	0.0	5,730	-,	3,706,572	176.831	8,0058	303,243	23	43,000
Dec-23	0	-	Ġ	3.9%	•	5.5	3.0	0.0	382,500	124,412	1,0	5.0	0.0	5,470	6,100 5,530	3,626,643	161.061	0.0053	310,041	21	40,000
Jan-24	Ð		0	3,9%		7.0	3.5	0.0	472 500	148,980	0.5	1.0	0.0	5,120		3,759,856	160:304	0.0058	343,786	21	51,500
Feb-24	36	129,600	40,863	3.8%	40,863	7.0	4.0	0.0	495 000	169,482	4.0	5.0	0.0	5,960	5,540	3,857,238	198.859	0.0065	368,366	56 13	22,000
Mar-24	25	90,000	29,724	4,0%	70,587	5,5	7.0	0.0	562,500	169,497	1,5	0.5	:0.5	5,770	7,270		192.561	0.0061	382,274	48 1	19,000
Apr-24	23	82,800	24,950	3,6%	95,537		65	0.0	607,500	189,713	-8.0	2.5	6.5	6,800	5,623	3,772,691	219 954	0.0069	400,223	78 1	75,000
May-24		129,600	40,472	3.7%	136,009	7.0	8.5	0.0	607.500	180,289	3.0	6.0	1.5	8 690	7,100	3,625,000	184.838	0.6061	289,679		93,500
Jun-24		180,000	53,413	3.6%	159,422	7.0		0.0	337,500	104,840	1.0	10:	0.5	5,860	6,260	3,657,238		0.0047	254.091		63,500
Jul-24	81	291,600	90.582	3,7%	280,004	3.0	4.5	0.0	382.500	108,416	1.0	5.0	0.5	4,610	4,760	3,728,285	145.675		224,252		81,000
Aug-24	70	252,000	71,427	3.4%	351,431	4.0	4.5		315,000	92,367	1.0	0.0	0,5	4,410	4,280	3,639,476	131.885	0.0043	206,138		48,500
		248,400	72,836	3,5%	424,269	4:0	3,0	0.0	315,000	88,367	0.5	0.5	05	3,610	4,150	3 639,476	117,771	0.0039			65,000
Sep-24		39,600	11,109	3.4%	435,378	3.5	3.5	0.0	225,000	69,849	0.5	0.5	0.0	3,840	4,340	3,617,762	123,404	0.0041	193,253		12,000
Oct-24		129,600	40,233	3.7%	475,611	2.0	3.0	0.0		64,794	0.5	0.5	0.0	4 150	4,450	3,617,762	129,740	0.0043	194,534	JU 1	·
Nov-24		61,200	17.524	3.5%	495,235	2.0	3,0	0.0	225 000	بدو پائست	5.5			-							
Dec-24	12	بهامتيها به	es son																		

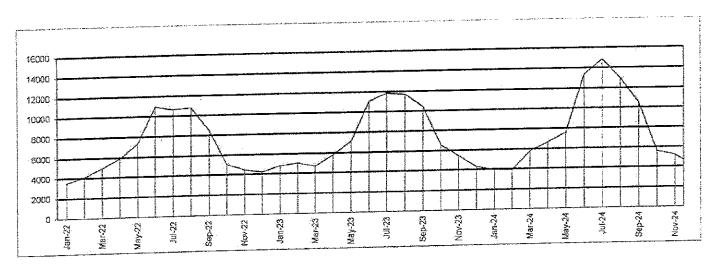




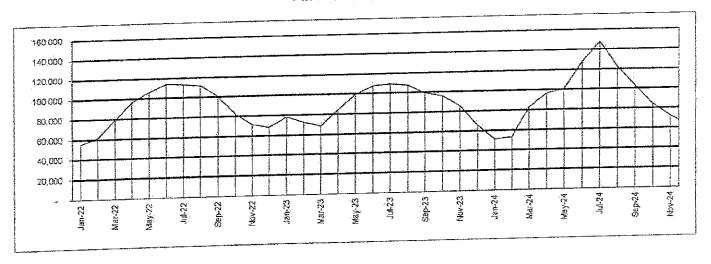
Electric Cost Kilowatts Used

Jan-22	3547	55,070
Feb-22	4063	61,330
Mar-22	4979	79,050
Apr-22	5907	96,160
May-22	7292	106,100
Jun-22	10958	113,870
Jul-22	10648	113,590
Aug-22	10800	111,690
Sep-22	8498	100,470
Oct-22	5071	82,030
Nov-22	4451	71,240
Dec-22	4224	68,000
Jan-23	4809	77,980
Feb-23	5074	72,420
Mar-23	4730	68,320
Apr-23	5801	84,440
May-23	7128	99,300
Jun-23	11076	107,520
Jül-23	11845	109,070
Aug-23	11697	107,330
Sep-23	10438	99,140
Oct-23	6553	96,000
Nov-23	5474	85,570
Dec-23	4293	65,618
Jan-24	3972	51,236
Feb-24	3925	53,460
Mar-24	5786	82,859
Apr-24	6619	96,496
May-24	7563	100,390
Jun-24	13362	127,782
Jul-24	14832	147,621
Aug-24	12915	122,157
Sep-24	10456	102,916
Oct-24	5594	84,223
Nov-24	5209	72,179
Dec-24	4135	62,553

Electric Cost



Kilowatts Used



Lake Ozark/Osage Beach WWTP Phosphorus Removal

	Inf. mg/L	Eff. mg/L		Inf. mg/L	Eff. mg/L		Inf. mg/L	Eff. mg/L
Jan-22	4.8	1.9	Jan-23	4,9	2.7	Jan-24	5,3	3.3
Feb-22	4.6	1.7	Feb-23	5.9	3.0	Feb-24	5,3	2.8
Mar-22	4.9	2.9	Mar-23	5.1	2.9	Mar-24	4.5	3.5
Apr-22	4.7	2.9	Apr-23	6.0	3.2	Apr-24	5,5	2.1
May-22	4.4	2.8	May-23	5.6	1,9	May-24	5.2	3,6
Jun-22	4.4	3.7	Jun-23	6.2	2.8	Jun-24	4.5	1.4
Jul-22	6.2	2.8	Jul-23	7.2	0.6	Jul-24	4.0	8,0
Aug-22	3.5	1.0	Aug-23	4.7	0.6	Aug-24	4.5	5.0
Sep-22	5,3	4.5	Sep-23	5.0	4.6	Sep-24	5.1	5,7
Oct-22	6.1	6.8	Oct-23	7.0	6.6	Oct-24	5.9	4.7
Nov-22	4.8	3.6	Nov-23	7.6	5.4	Nov-24	3.3	3.4
Dec-22	4.8	2.8	Dec-23	5,9	3.6	Dec-24	5.1	3.9
Avg.	4.9	3.1	Avg.	5.9	3.2	Avg.	4.8	3.3



MISSOURI DEPARTMENT OF NATURAL RESOURCES DIVISION OF ENVIRONMENTAL QUALITY

Discharge Monitoring Report For Municipal Wastewater Treatment Plants

				ACIL						LO	CATIO	N ADDRE	\$\$ & C 1	Υ		COUNT	Y/REC	NOIE
		the Oz	arks l	Regio	nal WWT	#1	······································	and a second making at the second making	·	<u>-</u> -	#3 /	Inderson			Markala sar sufference		r/SWF	<u>10</u>
MONTH	- 1				MUN TIM			DUTFAL		IBEI				EATMENT				
Dec-	24	INFLL	ENT	Ņ	10-010324	1		#	/ 001			ation Dito JENT	h/UV/Slu	dge Holdin	ıg-sludge		applie: Remov	
· · · · · · · · ·		eroxonometic tibili			nmonta			l	*************		P	mmonia	- garage graces extendi	E. coli	·	enenxrendn i ki	<u> </u>	
DATE	pH UNITS	BOD mg/L	mg/		as N mg/l	°C	MGD	pH UNIT	S m		SS.	as N mg/l	mg/L	#/100 ML	°C	BOD mo/L		ss ng/L
1	6.8			-			1.094	7.4				гонизмог гозави положеный А	11.4	-	10.2		_	<u> </u>
2	6.8					14.8	1.063	7,7			w	to bette to	11,4	CONTROL OF THE PARTY OF THE PAR	10,7	ļ		
3	7.2				22.42	12.0	1.085	7.5	******	- Viscoti			11.7	<u> </u>	9.0	<u> </u>		accommodel.
4	6.7		<u> </u>		22.3	15.2	1.067	7,4	*******			0.02	11.2		10.9	<u> </u>		:
5	6.9					11.3	1.071	7.6		enema moren essay.			11.5		8.5	ļ		· · · · · · · ·
6	7.1	173	15	0		9.6	1.112	7.8		3.1	5,3		12.2	<u> </u>	8,9	98.	2 8	96.5
7	7.3					13.2	1.018	7.5	····			Andrew Market Construction of the Construction	11.7		9.4	_		
-8	7.0					14.0	1.041	7.	****************			·	11.2	<u> </u>	10.3	<u> </u>		
9	7.1		na contratale	······································		14.7	1.014	7.					10.9		12.3			
10	6.8	ļ	ļ			12.3	1.073	7.	-				11,1		11.1	-		entares proces
11	7.2	-	-		24,3	14.2	1.020	7.				0.14	11.2		11.3			****
12	6.9		Yes Episteropeous		MY THEORY CENTURE OF	10,6	1,071	7.	recommended and the			" i a. a. a. th abaven	11.6		9.8			-
13	6.8	208	17	8	o-error market control conditions.	11.3	1,051	7.		3.3	4.2		11.8		9.1	98	4	97.6
14	6.8		-			13.3	1.201	7.			***********	Almbert Keellerherser	11.1		11,0			31 <u> 11</u>
15	6.8				**************************************	11.3	1,627	7.					10.9		11.8	***		
16	6.7					14.1	1.094	7			· N.	*******	10.7	concrete Constitutorese Substitute Substitute	12,6	A CONTRACTOR		
17	6.9					11.4	1.071	7	·				11.0	1970	11.3	**** W.E. K.W.		***************************************
18	6.7	183	1	70	20.3	12.6	0,954		.6	2.2	2.1	60.03	11.0		11.7		8	98.8
19	7.0	NAME AND ADDRESS OF THE PARTY O	_			12.4	1.045		.6				11.4		11.3			Marie 20,744
20	6.9				MATERIAN VIEW THE SERVICE TO	11.2	1.067	****	.6				11.4		9.9			
21	7,0		······································		Marie V.	9.2	0.990		.7		00000000000000000000000000000000000000		11.5	··	8.6			mar.
22	6.8					11.9	1,042		6.				11.1		7.8			
23	6.8		****		24.9	13.8	0.990		7.6			0.03	11.		10.0			
24	6.9				2013-11111 Co. 1990-11-1991-11-19	13.9	1,025	emmertait	7.7		······································	·	11.		12.			00 \$10000 ******************************
25	6.9					12.8	0.899		7,9			-	11.		11,			, .,
26	7,0		~~~	ATTIONNESS.		13.2	0,83		7,6			and the same of th	11.		11.			
27	6.8	31	3	316	SI BARROWAL WOMEN MANAGEMENT	13.4	1.05		7.6	1.7	2.7	ļ	11		12.		9.5	99.
28	6,8	_			······································	12.9	1.16		7.6	anne water to see a	a :commotraritett		10		11.		was south	
29	6,8				······································	13.3	1.15		7.6		ļ	-	10		12			
30	6.9			·	41.3	13.6	1.11		7.8	<u> </u>	 	0.15			12			-
31	6.8					11.7	1.18		7.7	2 1 1022 300	1 2 2 2 2 2		10		11		g ggd z Fo	18216
Total	100	St. Physical Co.		结构			33.2	90 📳		10.0	100	4375		<u> </u>	1 1 1 E		ikiti. Peri	養料
Avg		2	19	204	26.6	12.7	1.07	4	131	2.6	3,6	0.0	7 11	.3 0.	0 10	8.	98.7	98
Min	6.7	1	73	150	20.3	9.2	0.83	32	7.4	1.7	2.1).7 O.			98.2	96
Max	7.3	3 3	13	316	41.3	15.2	1,67	27	7.9	3.3	5.3	0.1	5 12	2.2 0.	0 12	.7	99.5	99

М	ONTHLY EFF	MONIT	ORING	QUA	RTERLY EFF	MONITORIN	IG	MONTHLY INF MONITORING				
DATE	Phosphorus mg/L	TKN mg/L	Nitrite+Nitrate mg/L	Oil & Grease mg/L	TR. Cadmium mg/L	Selenium mg/L	Hardness mg/L	Phosphorus mg/L	TKN mg/L	Nitrite+Nitrate mg/L		
1												
2												
3												
4	3.85	< 0.130	25.6					5,1	48.5	< 0.030		
5												
6												
7										Alan		
8										and the second s		
9					engagarap banagagagaga (Pelikilah)					A Charles		
10						CONTRACTOR OF STREET		A STATE OF THE STA		orrows W.		
11					The second of th							
12												
13						THE THE STREET AND A STREET AND		The state of the s				
14							,,,,					
15						review on management sources when Men Action		The second of th				
16					Anny of CANAGETTIC JOSEPH STORES OF SECTION AND THE SECTION OF SECTION AND THE SECTION OF SECTION AND THE SECT	yar 100 - 10		romany compression of a results of the adaptive of the second				
17				na const. La company servo se sus se se se su	Opples , organization and a second se			Magazile o Tile oy rekomonik territoria reservative en esta esta esta esta esta esta esta esta		man of the second secon		
18						Charles Landstoners wounder virgo 2004s.	2.4 by Windowskian & endinants	when the same that is a same to the same that is a same to the same that is a same to the same to the same to		reserver or mile (Mayer) per 24 to the state of the barriors of the last		
19						The section of the se	······		o-man granenssenskale	(CA)		
20										The second secon		
21								A TELEVISION OF THE PARTY AND A STATE OF THE P				
22								America de Mario de Manda do tala demanda en entre en en				
23												
24			A STATE OF THE STA									
25			EKENT V. S.		gyangan agan 2 aki 2 dalah MERIZMANAN MENANTAN MENANTAN	a kilomit Mala samili Maja sakuning 100 tani kataloni 1000	Wednesday American photography with the property of the proper	Agrica 2000 Assertino timo estable fo establish	a at at a sa s			
26	. 104					Marine Parks Super Daving Super Marine Super Sup		-	economiso o longito de que la cididad			
27	And and the second seco						LANGE AND THE PARTY AND THE PA	ORDINAL CONTRACTOR OF THE PROPERTY OF THE PROP	na cramacare resonator sociolis del	COLUMN TO THE PARTY OF THE PART		
28				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			*	COCCUMENTAL AND	COLUMN SCA	anan (r. 14 gregor) and description of the contract of the con		
29	Allers VV					·						
30	ACTION OF THE PROPERTY OF THE					A STATE OF THE PARTY OF THE PAR	Approximation of the second se					
31										restores and planting statement		
Total	3.85	≠ 07	30 - 25.6					5.05		5 < 0.030		
Avg	3.85	₹0.1			A ESHAVET WAYNER THE TOTAL			5.05	48			
Min	3.85	< 0.1	30 25.6		All and the second seco			5,05	1	3.5 < 0.030		
Мах	3.85	< 0.	30 25.6	1				5.05] 48	3.5 < 0.030		

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

	SLUDGE	#1 Ae	eration Bas		h, Etc.	#2 Ae	ration Bas	sin, O-Ditc	h, Etc.	*Weather Conditions		
	DISP.	Market and the second						LIQUOR		Outside		
	4	* DO	** MLSS	*Settlea		od*	** MLSS	*Settlea		* Ambient	*RAIN	Time
DATE Dec-24	WEIGHT	mg/l	mg/l	*30 mln ml	Temp °C	mg/l	mg/l	*30 min mi	Temp ° C	Temp	Inches	
1		4.1	4,150	260	11.0	4.1	4,240	260	11.4	34	0	7:30
2		3.7	4,290	260	11.0	4.1	4,290	270	11,3	36	0	7:30
3	***************************************	4,3	3,720	270	9.0	5.2	4,290	270	9,4	27	0	7:30
4		2,6	4,150	250	11.0	2.9	4,130	260	11.1	47	0	7:30
5		2.6	3,720	250	9.5	3.2	4,230	290	9.7	26	ō	7:30
8		3.7	3,700	250	9.1	3.7	4,620	310	9.0	23	0	7:30
7		4.3	3,720	240	9.5	4.2	4,510	300	9.8	32	Ö	7:30
8		3.5	3,740	230	11.6	2.9	4,430	280	11.1	49	Q	7:30
9		1.4	4,000	240	12.6	1.6	4,000	280	12.7	51	0	7:30
70	***************************************	1.7	3,830	250	11.1	1.5	4,470	290	11,6	36	C	7:30
11	5,765	2,5	3,510	240	10.8	2.3	3,770	270	10.8	37	C	7:30
12	4,083	2.7	3,290	250	9.3	2.8	3,590	300	9,9	29	Ö	7:30
13		3.4	3,420	250	9.3	3.4	4,220	300	9.9	31	0	7:30
14		1.7	3,840	270	11,2	1.7	4,070	270	11.5	48	1,0	7;30
15		1,2	4,330	300	12.8	1.4	3,840	260	12.5	48	0.5	7:30
16		1.5	4,670	330	12.9	1.9	3,800	360	13.9	54	0	7:30
17		1.4	4,860	350	11.2	1.8	3,820	270	12.0	34	0	7:30
18		1,4	4,360	320	12.2	1,8	3,640	260	12.6	46	0	7:30
19	ingenia - Anglish (1985)	1,4	3,530	300	10,6	2.5	3,710	The second secon	10,7		.0	7:30
20	7,776		4,200		9.9	3.2	3,840	280	10,9	32	0	7:30
21		3.7	3,750	280	9,4	4,9		280	9,5		0	7;30
22		4.1			8.7	5.2		300	9.0	28	0	7:30
23	The state of the s	2.8			10.7	3.9	4,090	290	10.5	49	0	7:30
24		2.1		· · · · · · · · · · · · · · · · · · ·	12.0	2.6	4,650	280	12.5	49	Ō	7:30
25	·····	3.4			11.3	THE PERSON NAMED IN		320	11.2	2 45	0	7:30
28		2.6			12.2			0 340	12.4	50	0	7:30
27	Photography and the second control of the se	1.7			12.7	1.7	4,150	0 330	12.8	3 52	0.2	7:30
28		1.5		4	13.1	2.1	4,530	0 350	13.2	2 46	0.	7:30
29	······································	1.3			13,1	1.4	4,480	0 350	13.2	2 50	0	7;30
30	THE PARTY OF THE P	1.2	3,950	300	12.3	1.6	4,34	0 360	12.7	7 39	0	7:30
31 COMMEN		1,5	4,150	0 320	11.9	1.6	4,45	0 350	12.6	5 43	0.2	7:30

COMMENTS:

TESTS PERFORMED BY (PRINT)	7 a SIGNATURE,	PHONE#	DATE
John Homback	Col How back	(573)365-0455	1/7/2025
REPORT APPROVED BY (PRINT)	SIGNATURE	PHONE#	DATE
Gary Hutchcraft	Day Hutcher &	(573)365-0455	1/7/2025

*Required Daily (Monday - Friday)

**Required 1/week

Lake of the Ozarks Regional WWTP 1 #3 Anderson Road LAKE OZARK, MO, Miller

State of Missouri Department of Natural Resources National Pollutant Discharge Elimination System (NPDES) Discharge Monitoring Report (DMR)

Permit Number	Outfall Number
MO0103241	001M
Monitori	ng Perlod
12/1/24	12/31/24
NÖDI:	***

Parameters	Re	porting Requireme	nts	Unit	Reporting I	Unit	
low, in conduit or thru reatment plant	***	争非外非常	条件水水油	安全 专业	1.627	1.074	Mgal/d
ion. Location.: End of Pipe	沙鸡家中水,黄油新味中	· 本本本。本本本	*****		Daily Max.:Monitoring Required	Monthly Ayg.:Monitoring Required	
imple Type: Total Measured							
requency: Daily							Armen a man area carea.
3OD, 5-day, 20 deg. C	整水和和半	3.3	2.6	mg/L	il distribution of the state of	华兴准准律	*****
Mon. Location.: End of Pipe	· 本本来市本。老师会保证	Weekly Avg.:45	Mouthly Avg.:30		****	申申水中等, 4分粉余米	
Sample Type: 24 Hour Composite							
Frequency: Weekly		4					
Total Suspended Solids (TSS)	海水 * *	5.3	3.6	mg/L	******	****	***
Mon. Location.: End of Pipe	****	Weekly Avg.:45	Monthly Avg.:30	1 1 1	*********	秦水牧海沙" 经供条件条	
Sample Type: 24 Hour Composite					and the same of th	11	
Frequency: Weskly							
Phosphorus, total (as P)	3.85	市場市本章	3.85	ing/L	***	本本章本	唯仙★老 排
Mon. Location : End of Pipe	Daily Max.:Monitoring Required	****	Mouthly Avg.aMonitoring Required		当如本字水*海米市水水	*********	
Sample Type: 24 Hour Composite Frequency: Monthly							
Nitrogen, Kjeldabl, total (as N)	<0.130	****	<0.130	mg/L	步布本平布	欢食学游楼	*****
Mon. Location.: End of Pipe	Daily Max.:Monitoring Required	· · · · · · · · · · · · · · · · · · ·	Monthly Avg. Monitoring Required		4.44.4.4.4.4	·李永治特者·柳水水水	
Sample Type: 24 Hour Composite	T. (1985)		ju B				1
Frequency: Monthly		- 10 miles	i I			j	-
Nitrite plus ultrate total (as N)	25.6	准验准准律	25.6	mg/L	海绵素字毒	****	米米 基准律
Mon. Lecation.: End of Pipe	Daily Max.:Monitoring Required	作水方法。************************************	Monthly Avg.:Monitoring Required		*************************************	*************************************	
Sample Type: 24 Hour Composite						1	
Frequency: Monthly]		***************************************	<u>"</u>
Nitrogen, ammonia total (as N)	0.15	* *****	0.07	mg/L	*老书事*	****	****
Mon. Location.: End of Pipe	Daily Max.: 12.1	****	Monthly Avg.:3.1		*****	班家水海水水水水	
Sample Type: 24 Hour Composite							
Frequency: Weekly	ŀ			i			

Lake of the Ozarks Regional WWTP 1 #3 Anderson Road LAKE OZARK, MQ, Miller

State of Missouri Department of Natural Resources National Pollutant Discharge Elimination System (NPDES) Discharge Monitoring Report (DMR)

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Mon. Location.; End of Pipe	Minimium:6.0	**********	Maximum:9.0		李冷秋台海·水水水水	****	
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Mon. Location.: End of Pipe	李宗龙张彦 ·朱松珍张朱	**************************************	Monthly Avg. Min.:85		建液涂出剂** 本途 教专术	*************************************	
Sample Type: Calculated							
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Suspended Solids, percent removal	海市 冷水水	*****	96.5	9/6	水水水水水	* * * * * * * * * * * * * * * * * * *	#*## *
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Sample Type: Calculated							
Frequency: Monthly		1				C Name	1

Lake of the Ozarks Regional WWTP 1 #3 Anderson Road LAKE OZARK, MO, Miller

State of Missouri Department of Natural Resources National Pollutant Discharge Elimination System (NPDES) Discharge Monitoring Report (DMR)

Permit Number	Outfall Number
M0010354J	INFIM
Maniterie	ng Period
12/1/24	12/31/24
NODI:	ńxxx

Parameters	Ro	porting Requirem	ents	Unit	Reporting	Unit	
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ion, Location, Influent	埠曜载油峰,****	港家本案查案的基次本	Monthly Avg.:Monitoring Required		将杂凑没承₂水要米 省债	安排知语: ******	
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vion, Location.; Influent	兴水水水	海童安装者。准备农水水	Monthly Avg.:Monitoring Required		李李本本者 ₂ 宋宗本帝	****	
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Nitrogen, ammonia total (as N)	41.3	· · · · · · · · · · · · · · · · · · ·	26.6	mg/L	* 体放本物	※ 女服 考定	李爷老爷
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Frequency: Monthly		A STATE OF THE PROPERTY OF THE		NAME OF TAXABLE PARTY.			
Phosphorus, total (as P)	5.05	43444	5.05	mg/L	***	非长业水水	*****
Mon. Location,; Influent	Daily Max.:Monitoring Required	· · · · · · · · · · · · · · · · · · ·	Monthly Avg.:Monitoring Required	St. James	章冰季港次 沙特斯加克	海水州水市,南水水水	
Sample Type: 24 Hour Composite							1,740
Frequency: Monthly	ļ						
Nitrogen, Kjeldahl, total (as N)	48.5	**************************************	48.5	mg/L	******	塘产净水水	*****
Mon. Location, Enfluent	Daily Max.:Monitoring Required	*****	Monthly Avg.;Monitoring Required		******	*****	
Sample Type: 24 Hour Composite							
Frequency: Monthly							
Nitrite plus nitrate total (as N)	<0.030	本名录录卡	<0.030	mg/L	****	**************************************	作水辛油水
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Sample Type: 24 Hour Composite						<u> </u>	
Frequency: Monthly							

Lake of the Ozarks Regional WWTP 1 #3 Anderson Road LAKE OZARK, MO, Miller

State of Missouri Department of Natural Resources National Pollutant Discharge Elimination System (NPDES) Discharge Monitoring Report (DMR)

the information enhanced. Bured on my busing of the person of	persons who imagage the system, or those persons directly responsible	with a system designed to assure that qualified personnel properly gather and evaluate for gathering the information, the information submitted is, to the best of my cluding the possibility of fine and imprisonment for knowing violations.
eSignature	Submission Date	User Phone Number
Gary Hutcheraft	January 7, 2025	(573)365-0455

LAKE SZARKOSAGE SEACH WWITP Committed Report

FOR DECEMBER 1014

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The Lake of the Ozark Regional Wastewater Treatment Plant #1

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

January 2025

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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Purpose of this Manual

This Emergency Response/Operations Plan Manual has been designed to assist in the first hours and days after a major disaster has damaged or destroyed the wastewater treatment system for the Lake of the Ozarks.

The manual is set up into several chapters of which some are in checklist format to assist you in prioritizing and planning your response.

The manual is designed to comply with MoDNR 10 CSR 60-12.101 Emergency Response/Operations Plan.

Updated/Reviewed for Accuracy Annually:

Date: 1/4/16	2016	Initials:	GH
Date: 1/4/17	2017	Initials:	GH
Date: 1/4/18	2018	Initials:	GH
Daté: 12/20/18	2019	Initials:	GH
Date: 1/3/20	2020	Initials:	GН
Dale: 2/12/21	2021	Initials:	GН
Date: 12/14/21	2022	Initials:	GH
Date: 1/13/23	2023	Initials:	GH
Date: 1/10/24	2024	Initials:	ĠН
Date: 1/9/25	2025	Initials:	GH

Preliminary Damage Assessment Checklist

LI	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	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	573-216-8398
John Hornback	Supervisor	573-365-0455	573-369-2761	573-480-4065
Robert Lenearts	Utility Worker I	573-365-0455		563-542-2772
Mark Mahler	Director of Compliance & Safety	573-874-8080	Ext. 226	573-825-8169
Josh Duncan	Division Manager Director of Operations	573-874-8080		573-216-4506
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 3		Gary Hutchcraft John Homback Robert Lenearts	
4 5 6			Lonnie Madole Kevin Klein
7	Mark Mahler Josh Duncan		Regan Doman
8 9	Tim Geraghty		
Client Contact:	Mike Welty 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)
Robert Lenaerts	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 hamess (2) (Admin. Bldg.)
- b. Lanyard & spreader bar (Admin. Bldg.)
- c. Tripod and hoist (Admin. Bldg.)
- d. 4-gas RKI GX-3R gas detector (Admin. Bldg.- Lab)

3. Other Equipment

- a. Ford 6" trash pump, City owned (Lake Ozark)
- b. 30' 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. Ford F250, 4WD pickup truck w/ snow blade & sand spreader
- e. Mack pump truck w/ 3800-gallon tank.
- f. Miller Wire feed Welder & Hobart Stickmate Stick Welder
- g. 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
•	Robert Lenaerts	573-365-0455	563-542-2772	
	John Hornback	573-365-0455	573-480-4065	573-369-2761
•	Lonnie Madole	573-378-5737	573-789-5242	
*	Kevin Klein	573-378-5737	573-378-8510	
	Regan Dornan	573-378-5737	573-569-8043	
٠	Mark Mahler	573-874-8080x226	573-825-8169	
	Josh Duncan	573-874-8080	573-216-4506	
*	Tim Geraghty	573-574-8080x229	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 Department Central Office Phone: 573-751-3443 & FBI Phone is 1-800-CALLFBI Central Field Operations 573-522-3322 or Environmental Emergence Response 573-634-2436 P.O. Box 176

Jefferson City, MO 65102-0176

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.
 - 1. 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.
 - 1. As specified above, all employees who evacuate shall meet just outside the entrance gate. An accounting of all employees shall be determined.

Assignments

- 1. The on-call operator shall be designated as the employee who stays behind.
- The local manager shall ensure that communications are being carried out with the employee who stayed behind
- 3. 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.
 - 1. 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.

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G. Emergency Identification and Analysis

Emergency	Analysis
Severe storms, high wind, lightning, floods.	 Damage can range from low to medium depending on severity of storm. 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. 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 bome chemicals, water borne chemicals, toxic chemical spills, weapons of mass destruction.	 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. 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)

I. 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 exidation ditches to final clarifiers splitter boxes.	3. Adjustable weir gate valves at basins
4. Gravity to Clarifiers.	4. Adjustable weir gate valves at splitter box for Clarifiers
5. Sluice gates in Oxidation Ditches and UV channels for draining purposes	5. Lift Station between aeration basins
6. RAS force main back to Ditches	6. RAS electric pinch valves in middle room of headwork'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.

K. Emergency Action Procedure for Epidemic/Pandemic

Description

A pandemic is a global disease outbreak. A flu pandemic occurs when a new influenza virus emerges for which people have little or no immunity and for which there is no vaccine. The disease spreads easily person-to-person, causes serious illness, and can sweep across the country and around the world in a very short time.

Notification chain

Note: Phone numbers are in Section I. Personnel Inventory, Contact Order & Training

- Local Manager notifies
 - o Plant Personnel
 - o Division Manager
 - o Joint Sewer Board Representatives

Preparation/Mitigation

- Scheduling redundancy
- Proper PPE on hand
 - o Masks, gloves, and sanitizer
- Essential supplies for prolonged hours o Cot, non-perishable food

Response

- Masks and other PPE will be required as recommended by AWR and CDC,
 o Masks are to be worn indoors when more than one person is on the premises,
 o Masks are to be worn when riding in a vehicle with others.
- Cards will be distributed identifying employees as essential.
- Surfaces, door handles, keyboards/mouse and all common use items must be disinfected on a regular basis.
- No visitors are to be allowed at the plant without approval of superintendent or above.
- Teams and crews are to stay separated from other groups.
- Employees are to spread out in large environments for meetings and lunch.
- Wastewater Plant specific response:
 - Separate employees into two teams.
 - Operating Team A
 - 2 operators
 - Operating Team B
 - 2 operators
 - o Operating Team A reports and works.
 - When operating team B performs work at plant, they must inform operator team A
 of what rooms they will be working in.
 - Disinfection of common use items is to occur at the beginning and end of each shift.

Recovery

Normal operations are to resume once CDC or AWR deems it safe.

Remediation

Normal operations are to resume once CDC or AWR deems it safe.

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 loing 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,

Clarifler drive units, skimming mechanism, scraper mechanism, sludge withdrawal, RAS pumps, RAS force main, WAS force main, and clarifler 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 stockpilling 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.
- 5. 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 #8 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 (miss) 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 (miss) 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 plnch 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 Ozerk Fire Department, Lake Ozerk 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 for 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 splli area with time
- 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

Call Letters	Frequency	Location	Phone#	Fax#
KRMS	AM 1150	Osage Beach, Mo	573-302-7000	Wiley 1995 Lit
KRMS	FM 93.5	ti ti ti	573-348-2779	WIND TO THE
KLOZ	FM 92.7	B 38 14	573-302-1993	New York of Control of
KTKS	FM 95	Versailles, MO	573-378-5669	573-378-6640

Local Television Stations

Call Letters	Channel	Location	Phone#	Fax#
KMOS	PBS 7	Warrensburg, MO	573-543-4155	39 74 18 18 18 18 18 18 18 18 18 18 18 18 18
KRCG	CBS 13	Jefferson City, MO	573-896-5144	Control of the second s
KMOU	NBC 8	Columbia, MO	573-882-8888	and the contraction of the Section Contract of Contract on Contract of Contrac

Local Newspapers

Name of Paper	Address	Contact Person	Phone#	Fax#
Lake Sun Leader	450 N. Hwy. 5 Camdenton	Justin	573-346-2132	MARIA Ma
Eldon Advertiser	415 S, Maple St., Eldon		573-392-5658	
Leader-Statesman	104 W. Jasper, Versailles		573-378-5441	WWW.
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	THE STATE OF THE S
John Hornback	Supervisor	573-365-0455	573-480-4065	573-369-2761
Robert Lenaerts	Utility Worker I	573-365-0455	563-542-2772	
Mark Mahler	Director of Compliance & Safe	573-874-8080 ×226	573-825-8169	the state of the s
Josh Duncan	Division Manager AWR Director of Operations	573-874-8080	573-216-4506	

City Personnel

Name	Position	Work Phone#	Mobile Phone#
Devin Lake	City Admin. Osage Beach	573-302-2000 ext. 1010	573-286-3705
Zachary Wilbur	Public Works Op Manager	573-302-2020 Ext. 2000	573-280-0241
Nathan Earp	Osage Beach Sewer Supervisor	573-302-2020	573-280-2473
Harrison Fry	City Admin. Lake Ozark	573-365-5378	573-280-9517
Matt Michalik	Dir. P/W Lake Ozark	573-365-5378	573-216-6063
Nathanial Boggs	Lake Ozark Sewer Supervisor	573-365-1741	573-216-6991
L.O. Police Dept.		573-365-5371	And the second s
O.B. Police Dept.		573-302-2010	The second secon

City Engineer

Name	Company	Work Phone#	Mobile Phone#	Fax#
- ATTION OF THE PROPERTY OF TH	Osage Beach	573-320-2020		**************************************

Sewer Board

Name	Position/Department	Work Phone#
Michael Harmison	Mayor / Osage Beach	573-302-2000
Kevin Rucker	Board Member / Osage Beach	573-302-2000
Gary Hamner	Board Member / Osage Beach	573-302-2000
Dennis Newberry	Mayor / Lake Ozark	573-365-5378
Pat Thompson	Board Member / Lake Ozark	573-365-5378

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	ALLEGO AND
Miller Co. Sheriff Dept.		573-369-2341 or 911	
L.O. Police Dept.		573-365-5371 or 911	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
O.B. Police Dept.		573-302-2010 or 911	19 (19 (19 (19 (19 (19 (19 (19 (19 (19 (
Miller County Health Dept.		573-369-2359	7-7-7-7-1-7-7-7-7-7-7-7-7-7-7-7-7-7-7-7
Camden County Health Dept.		573-346-5479	301 N N N N N N N N N N N N N N N N N N N

Local Ambulance Service

Name	Phone#	Emergency #
Osage Beach	573-302-2010	911
Miller County	573-369-2444	911

System Maps/Drawings

					and the second s
į	Name	Position	Work Phone#	Mobile Phone#	Home Phone#
	Gary Hutchcraft	Local Manager	573-365-0455	573-216-8398	
	Zachary Wilbur	Osage Beach	573-302-2020	573-280-0241	
	Matt Michalik	Dir. P/W Lake Ozark	573-365-5378	573-216-6063	TO SHAPE THE PROPERTY OF THE P

Local Utilities/Services/Suppliers

Service	Contact	Company	Phone#	Mobile Phone			
Phone	Bruce	T&TA	800-286-8313	573-286-0954			
Electric	Brent	Ameren UE	800-552-7583	573-694-5914			
Propane	David	Ferrell Gas	573-392-5400	573-280-7184			
UV System	John of Walt	ITT Wedeco	704-996-9233	704-409-9818			
Standby Generator	Nelson	Martin Energy Group	800-436-9190	573-681-8027			
	Coblentz	**************************************	NATION SHOW AS A SHOWN OF THE SHOW AS A SHOWN OF THE SHOW AS A SHO				
Laboratory	Ann Wagner	EAS Labs	573-204-8817				
Electrician	Steve Durban	Aesthetix Electric	573-348-1429	573-219-0043			
Electrician	David	Catalyst Electric	573-552-8488	573-286-9435			
Truck Repair	Norm	Crump Truck & Trailer	417-869-2515	417-861-8055			
Truck Repair	Noah	Tri-State Truck Center	417-869-0566	417-496-7113			
Truck Repair	Larry	Roemer Equipment Repair		573-280-5432			
Truck Repair	Tom Irwin	Irwin Diesel Repair	573-286-25	573-286-2585			
Truck Repair	Jonathan	Tri-State Truck Center		417-294-6422			
Truck Parts	Levi	Tri-State Truck Center		417-459-2078			
Heat A/C		Controlled Heating & Air	573-348-5455				
Heat A/C & KVAR		Comfort Heating &	573-348-9999				
		Cooling					
Auto Mechanic		Precision Auto	573-348-2233				
Auto Mechanic	Tim	C.A.R Automotive	573-693-1500				
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				
Pumps / Motors	B.J. Hedrick	Evans Enterprises	417-886-8886	417-844-3607			
Pumps / Motors	Wendell Love	JCI	в не	316-251-4590			
Pumps / Motors	Ben	SRI/MO		573-508-6440			
Clarifiers	Field Service	Eimco	801-526-2000				
The second secon		The state of the s					
Land to the second seco	The state of the s	***************************************		Majoran Tarania (Majoran Majoran Major			

Pumps / Motors,	Tom Rudloff	Zeller Technologies	314-638-9641	
Aerator Gear Boxes			x259	
Building Repair	Jeff Carroll	Above & Beyond	573-302-0354	573-286-2006
Building Repair	John	Missouri Builders	573-636-7733	
Chemical Supplier	Larry Startin	Brenntag	417-887-3663	417-593-0108
Digester Aerators	Patrick	EDI	573-474-9456	
Truck Tires	Steve	Purcell Tire	573-348-4010	417-861-1955
Truck Tires	Kevin	McKnight Tire	573-635-0101	573-338-3350
Truck Tires	Joel	JCB Tire	573-374-8854	573-434-4539
Piping Supplies	Justin	Core & Main	573-348-1273	The state of the s
Welding Service	Gary Koerber	GL Welding	and the second s	573-680-3957
Welding Service	Eric	PMF	The second secon	573-680-6434
Backhoe / Dirt Work	Steve Butler	Drain Masters, LLC		573-216-1169

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		573-346-7700
United Rental	All Types	Kaiser, MO	**************************************	573-693-9044

MODNR & FBI Contacts

Names	Office	Phone #	Fax#
Keith Forck	Jefferson City	573-526-4232	A STATE OF THE STA
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	
FBI		1-800-CALLFBI	Company (Market A view of Assessment of Committy or will be a second or with the second of the secon

Appendix 2

Chemical List / Facility Map

Chemicals:

Lab Office Building

- Hydrochloric acid
- Sulfurio 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

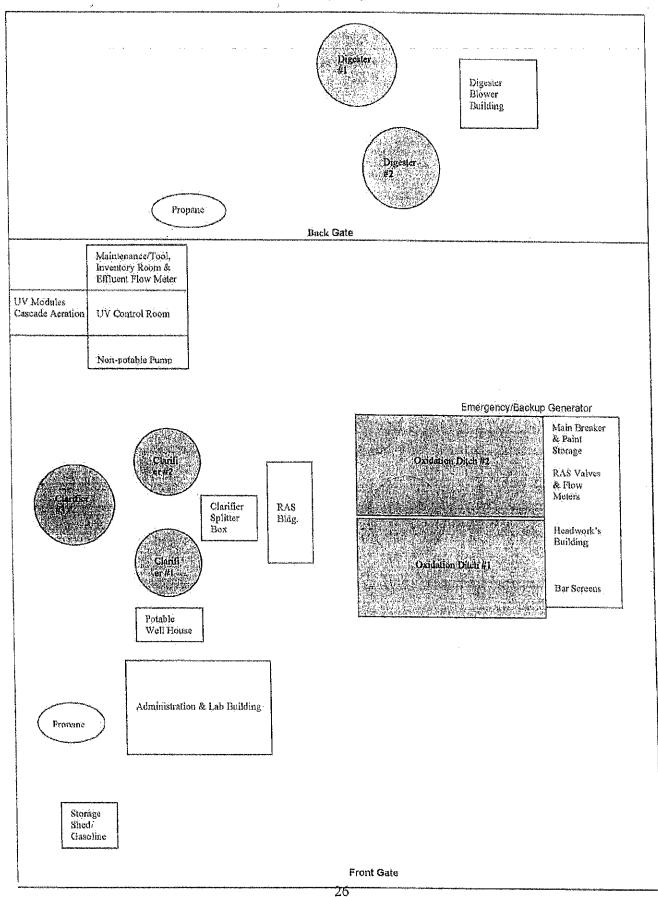
- Chevron Tube Grease
- Mystic tube Grease
- Hydraulic fluid
- · Assorted cans spray paint
- · Assorted cans building and grounds paint.
- Paint thinner / solvents

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 700-gallon diesel tank mounted under the emergency/standby generator located at the headworks building beside the electrical room. There is a 100-gallon portable diesel tank located normally stored at the sludge digester building over the hill.

Facility Map



Appendix 3

Standard Conditions for NPDES Permits

Part 1 - General Conditions, Section B - Management Requirements, Part 2. Noncompliance Notification.

A. If, for any reason, the permittee does not comply with or will be unable to comply with any daily maximum effluent limitation specified in this permit, the permittee shall provide the Department with the following information, in writing within five (5) days of becoming aware of such condition: A description of the discharge and cause of noncompliance, and the

period of noncompliance, including exact dates and times or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the non-complying discharge.

B. Twenty-four-hour reporting. The permittee shall report any noncompliance, which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The Department may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

Appendix 4

Instructions for Daily Readings & Maintenance / Daily Rounds

Sludge Decant Lift Station (at digesters)

Turn both pumps to off position. Turn pump 1 to hand, walk over and observe operation of pump, pump vibration, pump noise, and visually check and watch water level to see if water level is dropping. Turn pump 1 back to auto. Repeat above procedure for pump 2.

Decant / Dewater Lift Station (at aeration basins)

Check operation of pumps by turning both pumps to off position. Turn pump 1 to hand, walk over and observe operation of pump by looking at the discharge going into aeration basin. Listen for pump vibration, pump noise. Record pump hours daily in Admin. Bldg.

RAS Pump Building

One way to check operation of pumps by going over to the headwork's building and look at the RAS flumes and use the RAS pinch valves to adjust flow according to which ditch is the heaviest or lightest. If you can't adjust with valve, then your next step is to clean the pumps. Clean RAS pumps as needed or before each waste. Record pump hours daily in Admin. Bldg. office on the Honeywell data recorder.

Final Clarifiers

Check operation of clarifiers for rotation, motor vibration, noise, and heat. Check quality of effluent discharging over the weirs. Record sludge depth, wash scum collection troughs if necessary. Exercise #1 & #2 scum troughs down if they look like they haven't been working on auto. Go to control panel on clarifier and turn scum trough switch to manual, after exercising turn back to auto. Weekly checks on the clarifiers include checking oil levels in all gear reduction units and checking condensation drains.

Oxidation Ditch 1 and 2

Check operation of rotors, aerators, and discharge weir. Run down rotors on Monday, Wednesday, and Friday. Weekly checks consist of, checking the oil levels in the gear reduction units and checking the oil breathers on them also.

Head Works Building

Check operation of grit paddle, start grit solids pump, and observe for proper operation. To check automatic bar screen, turn bar screen switch to hand and observe for proper operation, and wash bar screen debris as needed. Check and see if the high flow floats in bar screen channels for grease or debris buildup and clean a necessary. Check operation of influent sampler/refrigerator, and record temperature. Weekly checks include checking the grit chamber and bar screen gearboxes for proper oil levels, checking both the Vac. & Compressor pumps for proper operation, and checking the suction globe on the grit solids pump for any excess buildup in the globe and/or air lines. The suction globe needs to be cleaned monthly. Check what day PM is performed.

Blower Building

Check oil levels and position of valves before turning on blowers then check operation of blowers. Weekly PM consist of checking of oil levels and deflection of belts.

Outfall / UV Structure & Building

Go into UV control room and touch the screen on the front of the panel to check and see if all UV bulbs in the bank or banks that are online at the time are working. If all are working and if there are no failures, then go out to outfall structure and visually inspect channels for any excess algae or debris buildup. Remove all banks monthly to clean and inspect bulbs, wipers, brushes and listen for any air leaks or any other types of odd noises. Also clean any algae buildup on the weir system at the end of the UV system.

Appendix 5

Permit Required Confined Spaces

The following list of confined spaces requires a permit to enter.

- Lake Ozark Influent Wet Well (right before flow meter)
- Osage Beach Influent Wet Well (right before flow meter)
- All Manholes
- Both Lift Station Wet Wells
- Both UV channel drain / valve pits

The safety protocol outlined in the company safety rules specifies that a confined space hazard assessment and rescue plan and a confined space entry permit both be completed and submitted to the safety coordinator whenever a permitted confined space is entered. The entry permit is included on the following pages for review; copies of the confined space hazard assessment form and the entry permit can be obtained from the safety coordinator.

	ICC ad Space Permit s	at Job Site	CON	FINED SPA	ACE ENTRY	PERMIT
Date:	Start Time		Time Va	ılid to:	(End of	Shift)
Sustomer Name	tered: /: & Location: ards of Space:	7 (1980) (1980) (1980)		cation; cy ∐Other		
GENERAL PRE	PARATIONS CHE	CKLIST: (Tracks of the second	INITIAL	
Energy Sou Air Mover/V Other Appli Attendant I Safety Ligh Hescue Eq Safety Harr Hespiratory Additional I Continuous Confined S Hescue Te Special Re Comments: Entrant-Attenda	uipment Set Up at ness with Retrieval Protection PPE Required Air Monitor pace Sign Visible am On-Site quirements (List in	ed/Tried I Work, etc.) Site Line Comments	licable)	rbal '⊡Visual Sig Make/Model/Se		
		Acceptable Levels →	Oxygen 19.5-23.5%	Combustible Gases ≤10% LEL	Carbon Monoxide <25 ppm	Hydrogen Sulfide <10 ppm
Initials			Control of the contro			
		10 10 10 10 10 10 10 10 10 10 10 10 10 1	· 分别关于自己的 14 14 14 14 14 14 14 14 14 14 14 14 14	텔레 65, 2000 스탠드 트립스		
Initials				9 11 11 11 11 11 11 11 11 11 11 11 11 11		

	: ☐ Rescue Team No ΠΟΝ (Check Only One) Entranla/Tools Out, Ready For F		Needed at Space k <u>NOT</u> Complete, Entrants o	Dut
Entry Supervisor Rescue & Emergenc Plant Emergency #: Nearest Phone: Other Means of Sumr	y Services:	pate:	Time	
AUTHORIZED ENTR		in electric contract		
Name (Rript)	Signature	With a said that (gines)		Exicume
AUTHORIZED ATTE				e de la companya de l
Name	######################################	274/- 74- Veparment	() Time	
ENTRY SUPERVISO	or: Signature (*)	.‱Department		
	Return Ex	pired Permit to Offic		

Appendix 6

Lockout-Tag out Instructions are found in site specific locations of each building inside the Facility.

There are hanging file holders with 3 ring binders in them found in each building with site specific instructions and pictures, for each piece of equipment that is located within that approximate location.

The main LOTO procedures manual is found in the Administration building as you walk in the main door. This manual has everything in the plant, that LOTO is required.

The Headwork's building LOTO binder is found in the Main Breaker room to the left of the door.

The UV building LOTO binder is found in the UV control room to the right.

The blower building LOTO binder is found to the left of the walk-in door beside electric panel.

After a piece of equipment has been determined in need of Lockout-Tag out devices you must fill out the Lockout / Tag out Permit before doing anything else, it must be approved by Supervisor or Plant Manager before doing any work. All required steps must be checked then verified complete, then the work can be started and completed.

All copies of LOTO permits must be kept and recorded on the annual log in the main LOTO manual in the Administration Building.

	liance	LOCKOUT	7/ TAGOUT PERMIT
Date:	Start Time:	Time Valid to:	(End of Shift)
quipment to burpose of Isola OTO procedur	pe Isolated; ution: e used:	Exact Location	on:
	PARATIONS CHECKLIST:	방법 경험 기술 전환 교사들의 생활 중에 지하기 사용하였다.	교통하게 하는 물리로 그들이 나왔다면서 그 이번째 살았다.
Temporary Energy Sou Notification Other Appl Additional I		ted	
ISOLATION AU	ITHORIZATION:	Signature, Cue	stomer Health & Safety Powerpoint
			Applicable)
AUTHORIZED	EMPLOYEES:		/Signature
erior a religioscopies (resp			
Same and the same			
1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2			
	Return Expire	d Permit to Safety Coordi	nator

VERSION 1.0 APRIL 2007

Appendix 7

ReCAP DEVIATION NOTIFICATION FORM

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ion:	L.M.C. (A.M.C.) (A.M.		and the second section of the second	
/iation: ☐SSO ☐]Вураss ∏Р	essure Loss	Sample Analysis	
LE TYPE & LIMIT	The second secon	and an electrical state of the	SAMPLE RESULT	
me aware of the	issue:			
s) for or event(s)	leading to d	eviation:		
tive actions take	∍n :			
anned to elimina	te or reduce	future incide	ents:	
າ or attachments	3;			
	Title:		Date Reported	
	tle	Date	Time	V-1. 30008103
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the state of the s				1
		t to the state of		
	tion: :	tion: :	Time: Time:	tion: W. Treatment Distribution W.W. Treatment Collections

documentation through the Deviation Notification ReCAP mailbox no later than the next business day of the incident.

SANITARY SEWER OVERFLOW (SSO) OR WASTEWATER TREATMENT PLANT BYPASS

Facility in hearmation						
PERMITTEE(MUNICIPALITY/DIS	3TRICT & PLANT):		PERMIT NUMBER:			
COUNTY:			Marie to the second sec			
COUNTY:	PHONE NU	MBER:				
(SEPORTO E RESPONSES DE L'EXPLOSION	The Control of the Co	aco See de Graventes				
a. Street Address/Landmark/Cros						
b. Complaint Name & Telephone						
c. Start Date & Time		Post of Post of the last				
The first way and the second s						
e. Categories of \$\$O						
			•			
□Vandalism	☐Power Outage		· Charles a			
□Inflow & Infiltration	☐Plugged Sewer		☐Broken Sewer ☐Equipment Fallure			
Rain Inches	Manhole location #		☐Widespread Flooding			
□Other_	Province Control of the Control of t	and the state of t	manaphaso vinoulia			
f. Categories of STP Bypass						
			*			
☐Head Works	☐Aeration/Biological Trea	tment	□ Digester			
Primary Basins	Clarifiers		☐Solids Handling/Dryling Beds			
Other						
g. Strength of SSO/Bypass: ☐ F	(aw (Dry weather SSO or Influen	t)	A file to the second se			
السا ا	Partially Treated Bypass or Wet w	veather SSO)	Was sampling performed? ☐yes ☐no			
Type of Samples Taken: [7] F	BOD ☐ TSS ☐ Fecal ☐ Am		وريس المسم			
	700 100 Fecal Am	шона П Ос	Other			
	N CONTRACTOR					
a. Name of Receiving Stream:		THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	Length Affected:			
b. Discharge Course		1	Security Security Control of the Con			
Runs on ground and absor	rbs into the soil.					
Ditch. Name of surface wa	ter it drains to:					
LI Storm sewer, Name of Sur	face water it drains to:					
LI Surface water direct disch	arge;	· · · · · · · · · · · · · · · · · · ·	A STATE OF THE PARTY OF THE PAR			
Other, describe:						
a. Rushing Removin		Other:				
b. Describe detailed actions take	en to correct & clean up the SSO	//Bypass and	any follow up actions:			
İ						
CLEAN UP PREFORMED BY:		4,				
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NAME (PRINTED):		TITLE:				
SIGNATURE:		BATE:				

Item No	Quantity & Item	Purchased In
I	1 - Craftsman 3 drawer tool box	2024
2	1 - Craftsman 5 drawer tool box	
3	I - 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	I - 1/4"deep socket set 4mm -14mm	***************************************
1.3	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 411th - 151th 1 - 1/4" shallow socket set 5/32 -1/2 w/ 2 & 3" extensions	
17	1 - 1/4"Ratchel	
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	THE CONTRACT OF THE CONTRACT O
25	4 - 3/8" 6 point sockets 1/4 - 7/16	
26	2 - 3/8" spark plug sockets 5/8 & 13/16	**************************************
20 27	2 - 1/2" Ratchets & 1 set 1/2" extensions 2, 3 & 6"	
		1000
28	1 - 1/2" deep socket set 3/8 - 13/16	
29	1 - 1/2" socket shallow socket set 9mm - 21mm	
30	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	
33	1 - 10 piece ignition wrench set 4mm - 13mm	
34	1 - 10 piece ignition wrench set 5/32 - 7/16	
35	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	
40	3 - snap ring pliers	
41	2 - pair channel lock pliers, I blue handle & 1 black	

	TOOLS	Purchased In
	Quantity & Item	2024
42	2 - pair electrical channel lock pliers, 6 & 10"	
43	1 - set of left handed drill bits	
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 & I straight	***************************************
50	2 - 6" Vise grip pliers, 1 curved & 1 needle jaw	
51	1 - yellow handle tin snips	
52	1 - 12" crescent wrench, Craftsman	
53	4 - pipe wrenches, 14", 18", 24", & 36"	1 - 14"
54	I - 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	44 Notice Block had bed middle service for many
61	2 - Concrete trowel	- 10 1 () / 10 1 () / 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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°	with the same and the same state of the same sta	
	1 - tire gauge 1 - 6° square	***************************************
77		
78 70	2 - rag pullers	**************************************
79	1 - crow bar	hand the second
80	1 - garden rake	
81	1 - round point shovel	

	TOOLS	Purchased In
Item No.	Quantity & Hem	2024
82	1 - flat shoyel	
83	1 - 10lb straight bar	
84	1 - pick	
85	I - anti freeze tester	
86	1 - flat bar	
87	1 - Craftsman 28 pc. tap & die set	***************************************
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	
93	1 - Black & Decker 3/8 variable speed drill	
94	1 - 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	l - Hitachi hammer drill*	

	MISCELLANEOUS TOOLS from Old Sludge Trk.	Purchased In
Item No.	Quantity & Item	2024
100	1 - grense gun	
101	1 - 20 piece Stanley SAE Comb. end wrenches 1/4 - 7/8	
102	I - Set Comb. End wrenches 8mm - 18mm	
103	1 - Rubber maid tool bag	
104	4 - Stanley flathead screwdrivers	
105	2 - Stanley phillips screwdrivers	A 100 mm
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	7777
117	1 - Set of wheel chocks	
118	1 - log chain	
119	1 - air hose	
120	1 - assortment Buse fuses	

MISCELLANEOUS EQUIPMENT Purchased In Item No. Quantity & Item 2024 121 I - Hobart Stickmate 160i Stick Welder 122 1 - Ryobi 18 volt Drill, Circular Saw, Recip saw, Flashlight, Vacuum Combo Kit w/2 batteries 1 - Millermatic Wire feed welder w/helmet & gloves 123 4 - metal lockers in men's restroom 124 125 2 - metal lockers in women's restroom 126 1 - plastic mop bucket w/wringer 127 1 - Gorilla ladder MPX-22 128 I - 4' step ladder, fiberglass 1 - 6' step ladder, fiberglass 129 10' stepladder, wood 130 24' 300 lb rated extension ladder, aluminum 131 132 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 1 - 4" x 60' suction hose 136 1 - 4" x 15' discharge hose @ septic unloading station 137 1 - Schumacher battery charger model SE-82-6 138 1 - DieHard 12 volt automatic battery charger/engine starter model 28,71331 139 1 - 10-3 100ft Extension cord 140 1 - 100' extension cord 141 142 2 - 50' extension cord 143 1 - I gallon plastic gas cans 144 2 - 5 gallon steel safety gas cans 145 1 - misc, log chains, headwork's tool room 3 - 50'x1 1/2" fire hoses with 2 nozzles 146 5 - Garden hoses 147 1 - mechanic creeper 148 1 - Craftsman gas leaf blower 149 150 1 - Craftsman 4 cycle weed eater 1 - cherry picker (engine hoist) 151 1 - 9 gallon portable air tank 152 1 - Campbell Hausfield 26 gallon air compressor 153 1 - CH air drill 154 155 1 - CH air ratchet 1 - CH air grinder 156 157 1 - CH air impact wrench 1 - CH air chisel w/4 chisels 158 159 I - air tire inflator

	MISCELLANEOUS EQUIPMENT Pr	irchased In
ltem No.	Quantity & Item	2024
160	1 - Pro-Arc oxy-acc torch kit & tanks	
161	1 - Pro-Force 33 paint sprayer	***************************************
162	1 - 15 gal 12 volt portable sprayer	
163	1 - 60gal Ingersoll Rand in UV building	***************************************
164	1 - 3 ea. grease gun	
165	1 - Cowhbian 5" multi bench vise	
166	3 - shop vac's	***************************************
167	2 - drum dollies	***************************************
168	1 - Commercial Elec. Amp meter, HDSA 500	
169	1 - Commercial Elec, Multi meter, HDM 4100	**************************************
170	2 - insulated fuse pullers, 1 large & 1 small	
171	1 - GB circuit tester	
172	1 - 3/8 hammer drill	***************************************
173	1 - Skil 14.4 drill kit, w/ battery & charger	
174	I - Black & Decker bench grinder	***************************************
175	I - Black & Decker hand grinder, 4 1/2"	***************************************
176	1 - 115V 3/8 VSR Drill/ Driver	teritoria etimologia (maj pap y generica y gazza (CCC)
177	1 - propane torch, elec. Start	***
178	I - strap I ton come along	· · · · · · · · · · · · · · · · · · ·
179	2 - chain come alongs, 1 ton & 3 ton	
180	1 - cable come along, 1 ton	***************************************
181	1 - 2 ton floor jack	***************************************
182	1 - 12 ton high lift jack	
183	2 - yellow air hoses	
184	1 - 100gal. Portable Diesel fuel tank	
185	1 - Fluke T5-1000 Volt/Amp meter	
186	3 - 2 wheel wheel-barrows, 2 are being used for bar sreen tubs	
187	1 - garden cart	
188	1 - Garden power 65ft. 5/8" Auto-Retractable Garden Hose reel in RAS basement	
189	I - portable hand work light	
190	1 - portable work light stand w/ dual mounted lights	
191	3 - Strong Arm electric winches for clarifier skimmer baskets	MC (11 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
192	1 - Strongway electric hoist for lift station pumps	
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 w/ 2 wand ext. & floor want	2 - wand ext.
		& floor wand
196	1 - Warn 120 volt Winch/Hoist for pulling UV channel basket	
197	1 - Chapin Homepro backpack sprayer	

	OFFICE INVENTORY	Purchased In
Item No.	Quantity & Item	2024
198	l - wooden desk	
199	l - metal desk	
200	s - Office chairs	
201	3 - file cabinets, 1 - 4 drawer & 2 - 2 drawer	
202	1 - 3 shelf bookshelf	***************************************
203	1 - PC, w, speaker in monitor, keyboard, and surge arrestDELL	
204	1 - MFC-L2685DW Brother copier / printer	
205	l - conference table	
206	27 - folding steel chairs	1
207	1 - Samsung Mobile phone w/ AT&T service	
208	I - Fellowes paper shredder	
209	I - Bissell vacuum cleaner	10 10 10 10 10 10 10 10 10 10 10 10 10 1
210	1 - Emerson TV/VCR Combo (for training)	
211	1 - Emerson microwave	***************************************
212	1 - Magic chef refrigerator	***************************************
213	1 - Culligan water cooler	***************************************
	CONSUMABLE MATERIALS	The state of the s
Item No	Quantity & Item	Purchased In
	2 - 500 Galion propane tanks, w/ 405 gallons as of 1/10/25	2024
215	1 - 700 Gallon diesel fuel tank in Generator, w/ 490 gallons as of 1/10/25	578 gal.
4,2,4	1 Two Cuttors discoursed that the Controlled, will 770 gallons as of 17,0723	372 gal.
	VEHICLE'S	Purchased In
Item No.	Quantity & Item	2024
216	1 - TRYN SP-575X-1 Mini Pro Tailgate Spreader SN#190730300540SP-575X-1	
217	1 - 2018 Ford F-250 w/Knaplied snow blade vin# 1FTBF2B66JEC64283	
218	1 - 2022 Mack Granite Sludge Truck w/3600 gallon tank vin# 1M2GR2GC7NM028115	
219	1 - John Deere Z915E ZTrak 54" Zero-Turn Mower	***************************************
	LABORATORY EQUIPMENT	Ďarraka a d Ta
Item No	Quantity & Hem	Purchased In 2024
***	1 - OHAUS adventurer analytical balance	2024
220 221	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	
223 224	1 - Isco Auto sampler pump	
225	1 - Hach Sension+ MM340 Ammonia meter & probe	
225 226	1 - Hach HQ411D pH/my meter & probe with stand	
227	1 - Allied stirrer and hot plate	
228	1 - Vector spotlight, for discharging Isco batteries	
	2 - VWR ASTM certified / calibrated thermometers	· · · · · · · · · · · · · · · · · · ·
229	TY * A MAY WELLING CERTIFICA \ CRITICA \ CRITI	

	LABORATORY EQUIPMENT	Purchased In
Item No.	Quantity & Item	2024
230	2 - Nalgene desiccators	177.7
231	1 - muffle furnace-Therolyne	
232	1 - vacuum pump-Fisher	**************************************
233	1 - sterilizer-Electric Steno Clave	
234	1 - Incubator-Fisher ISO temp	· · · · · · · · · · · · · · · · · · ·
235	1 - drying oven-Fisher ISO temp oven	
236	1 - portable D.O. meter-YSI 550-A	
237	1 - BOD Incubator- Reyco	
238	1 - microscope-Micromaster	
239	1 - Lab refrigerator w/ icc maker-Criterion	
240	2 - timers-West Bend	
241	I - Hanna portable pH meter	· · · · · · · · · · · · · · · · · · ·
242	1 - Hach HQ40D meter w/ LBOD probe	
243	1 - Hach HQ1130 DO meter w/ Rugged LDO probe	
244	1 - Hach Distillation Glassware set for Ammonia	
245	1 - Thermo Hot plate for distillation	
246	1 - Igloo Ice Maker for Samplers	
247	10 - Safety Glasses / Goggles	
248	2 - Face Shield	

	SAFETY EQUIPMENT	Purchased In
Item No.	Quantity & Item	2024
249	2 - UV Face shields	
250	4 - Rubber Gloves	
251	50 - Disposable Face mask	
252	200 - Disposable Nitrile/Rubber Gloves	200
253	160 - pair disposable ear plugs	
254	2 - Ear Protection muffs	
255	1 - Eye Wash Stations	
256	2 - Back Supports	
257	1 - Gas Detector / Monitor, portable RKI GX-3R with (Bump/Calibration kit)	
258	1 - Lock Out/Tagout Station	
259	2 - Full Body Harness	
260	1 - Lanyards & 1 spreader bar	
261	1 - Tripod, Winch and air machine	
262	3 - First Aid Kits	
263	6 - Fire Extinguishers, Plant	
264	1 - Fire Extinguishers, Office	
265	3 - Fire Extinguishers, Vehicles	

	SPARE EQUIPMENT & PARTS	Purchased In
ltem No.	Quantity & Item	2024
266	4 - electrical contact relay	
267	1 - 3 phase monitors	
268	3 - Allen Bradley PLC I/O Boards for UV control panel	
269	43 - UV bulbs	
270	60 - UV quartz sleeve	
271	3 - UV ballast	
272	2 - UV air cylinder rebuild kit & 2 outer bands	
273	5 - New UV air cylinder	
274	1 - UV air cylinder hose, approx. 20 ft.	
275	1 - Wiper Rings	
276	2 - UV bulb cord w/2 bulb sockets	
277	1 - Blue Poly tubing for outdoor UV panel 5ft 6mm & 5ft 10mm	***************************************
278	2 - UV sensor brushes	
279	1 - blower for digesters	25.94.94.94.94.44.44.4.4.4.4.4.4.4.4.4.4.
280	1 - Carboy for BOD water	
281	6 - Fluorescent bulb ballast & 7 - T-8 bulbs	
282	1 - quantity of assorted ¾, & 1" PVC pipe fittings	***************************************
283	1 - quantity of assorted nuts & bolts	7-19:11-14:14:14:14:14:14:14:14:14:14:14:14:14:1
284	1 - Transfector ACP-100 surge suppressor	
285	1 - Transfector PDS 1 tube surge protector	The state of the s
286	1 - Alternating relay for lift stations	
287	9 - Ice cube relays for UV system	
288	3 - Thermal overloads for aerator MDP	***************************************