#### OSAGE BEACH / LAKE OZARK JOINT SEWER BOARD MEETING AGENDA

#### January 16, 2024 @ 4:00 p.m. LAKE OZARK CITY HALL

#### 1. CALL TO ORDER

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#### 3. PUBLIC COMMENT

#### 4. MINUTES

	Regular Meeting: December 19, 2023		2-3
5.	<u>REPORTS</u>		
	Bills List Revenue Budget Analysis Expenditure Budget Analysis Income & Expense Summary		4-11 12 13 14
6.	ALLIANCE REPORT OF OPERATIONS		15-32
7.	APPROVAL OF FLOW CHARTS		
8.	OLD BUSINESS	41	
	<ul><li>A. Board update.</li><li>B. Update report Capital Replacement Forecast Plan.</li></ul>	×	

## 9. <u>NEW BUSINESS</u>

- A. Alliance Management Contract Draft #3 33-46
- B. Updated 2024 ERP & Plant Inventory review and discussion. 47-87

## 10. ADDITIONAL DISCUSSION ITEMS

#### 11. ADJOURNMENT

## LAKE OZARK-OSAGE BEACH JOINT SEWER BOARD

Meeting Minutes – December 19<sup>th</sup> 2023

#### **CALL TO ORDER:**

Mayor Harmison called the meeting to order at 4:00 pm on Tuesday, December 19<sup>th</sup>, 2023, at Lake Ozark City Hall.

#### **ROLL CALL:**

Mayor, Michael Harmison- Present
Mayor, Dennis Newberry – Present
City Administrator, Harrison Fry - Present
City Administrator, Jeana Woods - Present
Alderman, Kevin Rucker- Present
Alderman, Pat Thompson- Absent
Public Works Director, Matt Michalik – Present
Resident Member, Mr. Gary Hamner – Present
Assistant City Administrator, Acting Public Works Manager, Mike Welty - Present

#### **MINUTES:**

Public Works Director, Matt Michalik, motioned to approve the meeting minutes from November 21<sup>st</sup>, 2023. The motion was seconded by City Administrator, Jeana Woods and passed unanimously.

#### **REPORTS:**

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

A motion was made Mayor, Dennis Newberry to approve the Bills List, Revenue Budget Analysis and Expenditure Budget Analysis. The motion was seconded by Alderman, Kevin Rucker and passed unanimously.

#### **ALLIANCE REPORT OF OPERATIONS:**

Alliance Report of Operations: The average daily incoming flow for November was 0.889 mgd. We had 1.0 inches of precipitation measured at the WWTP for November.

Operationally, the plant's discharge was excellent, with an effluent monthly average BOD of 1.9 mg/l and TSS of 2.1 mg/l respectively for November which represents a 99.2 + % or better removal.

The MLSS average for both aeration basins for November was 5,021 mg/l. The total dry weight sludge inventory for November totaled 243,194 pounds. We received 30 loads of septage or 59,000 gallons for November.

#### APPROVAL OF FLOW CHART:

Mayor Dennis Newberry motioned to approve the November flow chart. The motion was seconded by City Administrator, Harrison Fry and was unanimously approved.

#### **OLD BUSINESS:**

A. Board Representative Update.

#### **NEW BUSINESS:**

- A. Reviewed RAS Pump Replacement bids. A motion was made by Public Words Director Matt Michalik to approve the bid from JCI Industries for the bid amount of \$188,500.00. His motion was seconded by Alderman Kevin Rucker. Mayor Dennis Newberry abstained from the vote. The motion carried.
- **B.** Discussion and possible action on the Clarifier Paint Project for more time and material. Upon detailed discussion and review, Alderman Kevin Rucker motion to approve more time and material with an additional cost of \$14,775.00. Assistant City Administrator, Acting Public Works Manager, Mike Welty seconded Matt's motion and it was passed unanimously.

#### <u>ADDITIONAL DISCUSSION ITEMS:</u> .

#### **ADJOURNMENT:**

With no further business to discuss, a motion was made by City Administrator, Jeana Woods to adjourn. Mayor Dennis Newberry seconded the motion. The meeting was adjourned at 4:35 pm.

Approved:	
Michael Harmison, Mayor	Robin Craig, Clerk

### JOINT SEWER BOARD BILL LIST JANUARY 16, 2024

OPERATIN OPERATIN EQUIPMEN EQUIPMEN	EETING:	\$ \$ \$ \$	126.82 40,074.52 - 369.98		
- Wantii			TOTAL	\$	40,571.32
OPERATIN	IG FUND BILLS PAID PRIOR TO	O BOARD MEETING:			
Account		Description:			Amount:
4176	AT&T	December		\$	47.85
4176	Republic	January		\$	78.97
		<b>,</b>	TOTAL	\$	126.82
	IG FUND BILLS TO BE PAID:				
Account	, 40,41	Description:			Amount:
4000	Equipment Replacement Fund			\$	5,000.00
4020	CED	Replacement Relay for Pista	Grit	\$	225,00
4020	M/C QuickBooks	Accounting Software		\$	30.00
4020	Menards	Conduit Hangar		\$	4.38
4020	Menards	Door knob, insulation, gease	gun	\$	150.20
4020	USA Blue Book	Float Switches		\$	373.46
4020	Woodley Building Main.	Janitorial - December		\$	330.00
4150	O'Reilly Auto	Battery		\$	202.75
4170	Alliance Water Resources Inc	January		\$	29,466.00
4175	Ameren MO	11673321		\$	4,237.12
4175	Ameren MO	98041275		\$	55.61
				\$	-
			TOTAL	\$	40,074.52
EQUIPME	NT REPLACEMENT FUND BILI	S PAID PRIOR TO BOARD M	JEETING	;	
Account	Paid To:	Description:			Amount:
4000		•		\$	
			TOTAL		~
	NT REPLACEMENT FUND BIL				
Account	Paid To:	Description:			Amount:
4000	M/C Harbor Freight	Replacement Hoist 2000#		_\$	369.98
			JATOT	. \$	369,98

### Alliance

INVOICE

Invoice No. INV104864

Alliance Water Resources

Lake Ozark/ Osage Beach Joint Utility Board 20220 City of Osage Beach 1000 City Parkway Osage Beach, MO 65065

206 South Keene Street Columbia, MO 65201

Document Date

Due Date

Payment Terms

January 1, 2024

January 31, 2024

Due in 30 Days

Total \$	29,466.00
Wastewater Plant operating service for January 2024	29,466.00
Description	Amount



December 19, 2023

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 December 12, 2018, the base fee is adjusted on January 1<sup>st</sup> 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, 2023 was the twelve (12) month period November 2021 through November 2022.

Accordingly, the base fee beginning January 1, 2024 will use the 12-month period from November 2022 through November 2023. The appropriate indices and resulting contract adjustment is calculated as follows:

CPI November 2022 276.436 CPI November 2023 284.539

CPI Increase =(284.539-276.436)/276.436 =2,9%

Per the Agreement, the base fee will be adjusted upward beginning January 1, 2024 by the CPI percentage of 2.9%. The calculation of the 2024 Base Contract Fee is as follows:

Current 2023 Monthly Fee = \$29,466.00 Adjusted 2024 Monthly Fee = \$29,466.00 x 1.029= \$30,321.00

The invoice for January 2024 will reflect the new base fee of \$30,321.00

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

Sincerely,

Joshua D. Duncan Regional Operations Manager Alliance Water Resources

CC: Tony Sneed
Gary Hutchcraft

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Account Number 4680006832

Customer Name

**ALLIANCE WATER RESOURCES INC** 

Service Address

a anderson RD, .

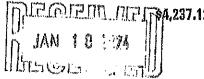
LAKE OZARK, MO 86049

Current Detail for Statement 91/19/2024

**Total Electric Charges** 

\$4,237,12

Total Amount Due



AMOUNT DUE \$4,237.12

Due Date 02/01/2024

Amount After Due Date \$4,279.49

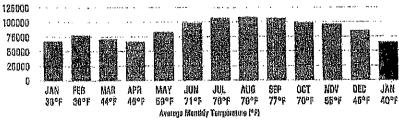
Previous Statement \$5,392.60

Total Payments \$6,392.80

Payment Received Thank You.

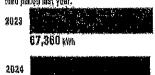
Electric Usage in Kilowett Hours (kWh)

Electric Usage History



Electric Usage Summary (kWh)

So for this year you're using 3.1% loss than the same time parted last year.



85,280 kvi

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

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Date:

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Page 1 of 4

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Amount Due	Due Date
94/237/12	Fobruáry 01; 2024
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Amount Enclosed \$

SOT LETELD LOOD 8962588 LTMBDC<

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

AMEREN MISSOURI PO BOX 88068

CHIÇAGO IL 60680-1068



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Pay by mail: PO Box 88068, Chicago, IL 60880-1088

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■ Gustomor Service: 1.877.426.3788

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#### Cleetric Service Details Service from 12/05/2023 - 01/08/2024 (34 days) Electric Motor Road USAGE READING CURRENT PREVIOUS SERVICE NO. READING METER NUMBER MULTIPLIER USAGE FROM TO DAYS TYPE TYPE READING READING DIFFERENCE 11673321 12/06 - 01/08 34 Total kWa 84004.0000 Actual 83698,0000 408,0000 180,0000 00200.0000 11873321 2208:01709 34 FearkW 1 Actual 0.0000 0.80701; 100.00001 100.0000 Usage Summary Total kWh 65280,0000 Non-Summar kWh 86280,0000 Peak kW 105,9000 Billing Demond 105.9000 Total Billing Demand 105.9000 October Winter Basa kW 178,6000 Winter Base Cemand Base kWh Ratio 105.9000 1.0000 Baso kWh (HUD) 65280.0000 Seasonal kWh (HUD) 0.0000 Hate 3M Large General Service DESCRIPTION USAGE UNIT RATE CHARGE Seasonal Energy Chargo 0.00 kWh \$ 0.04080000 0 \$0.00 Winter Domand Charge 105.90 k₩ \$ 2,30000000 Ö \$243.57 Base Energy Charge / Hours Used 15,885.00 kWh \$0,0698000 (9) \$1,108.77 Basa Energy Chargo / Hours Used 21,180.00 kWh Ø \$ 0.05190000 \$1,099.24 Base Energy Charge / Hours Used 28,218.00 kWh Ø \$ 0.04000000 \$1,153.99 Customer Charge \$110.55 Fuel Adjustment Charge 65,280,00 kWh 0 \$ 0,00309000 \$201.72 Energy Efficiency Investment Charge **65,280.00** kWh Ø \$ 0.00467100 \$298.39 Renowable Energy Adjustment 65,280.00 kWh (i) 0002E000.0 \$ \$20.89 Total Service Amount 84,237.12 **Total Electric Charges** \$4,237,12

Questions? Contact Ameren Missouri et 1.877.426.3735 or visit AmerenMissouri.com.

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Account Number 6580005920 Customer Name

**ALLIANCE WATER RESOURCES INC** 

Service Address

3 ANDERSON RD

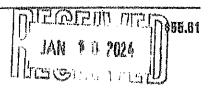
LAKE OZARK, MO 65049

Current Detail for Statement 01/10/2024

**Total Electric Charges** 

\$55.61

**Total Amount Due** 



	H
AMOUNT DUE \$55.61	ų.
Due Date 02/01/2024	
Amount After Due Dête \$56,17	
Previous Statement \$81,280	
Total Payments \$81.80	
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**Amount Enclosed \$** 

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ALLIANCE WATER RESOURCES INC ... PO BOX 1885 LAKE OZARK, MO 65049-1986

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Licanic	Service Detalls (Gont	ipured)					regencycles on figit of his legal at his special page.  3		
METER NU	IMBER SERVICE FROM - TO	NO. DAYS	USAGE TYPE	READING TYPE	CURRENT READING	PREVIOUS READING			USAGE
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# MONTH-TO-DATE AND YEAR-TO-DATE REVENUE/BUDGET ANALYSIS

## 12/31/2023

Account		2021	2022	2023	2023	2023	Percent
Number	Account Name	Actual	Actual	Budget	Actual as of	December	YTD
					12/31/2023	Revenue	
3020	Osage Beach	465,202.63	460,708.70	481,940.00	491,201.99	40,612.66	102%
3010	Lake Ozark	84,797.35	91,794.26	98,710.00	87,143.84	7,774.84	88%
3030	Misc.	22,000.00	1,094.92	0.00	234.08	0.00	0%
3100	Interest	2,700.22	2,462.35	2,500.00	5,522.07	30.74	221%
3060	Waste Haulers' Fee	60,520.00	49,490.00	56,000.00	63,160.00	3,850.00	113%
	Total Operating Fund	635,220.20	605,550.23	639,150.00	647,261.98	52,268.24	<b>1</b> 01%
•	E/R Fund Income	5,508.47	3,588.63	4,000.00	15,011.38	0.00	375%
	TOTAL INCOME	640,728.67	609,138.86	643,150.00	662,273.36	52,268.24	103%

#### MONTH-TO-DATE AND YEAR-TO-DATE EXPENDITURE/BUDGET ANALYSIS 12/31/2023

Account Number	Account Name	2021 Actual	2022 Actual	2023 Budget Orlginal	2023 Budget Amended	2023 Actual as of 12/31/2023	2023 December Expenses	Percent YTD
4000	Equipment Replace Fund	143,608.00	65,008.00	60,000.00	60,000.00	60,000.00	5,000.00	100%
4020	*Maintenance & Repair	104,853.81	60,030.11	93,500,00	118,000.00	84,665.12	4,431.60	72%
4140	Insurançe	21,493.00	22,088.00	23,000.00	23,000.00	22,791.00	00,0	99%
4150	Vehicle Repair/Main	11,099,99	5,999.58	8,000.00	8,000.00	3,265.47	0.00	41%
4170	Contract Management	308,640.00	331,080.00	360,000,00	360,000.00	353,592.00	29,486.00	98%
4175	Electric	82,227.41	79,890.16	81,000.00	88,000.00	88,547.80	5,474.40	101%
4176	Utilities Misc.	3,528.17	3,694.18	5,000.00	5,000.00	4,579.70	126,69	92%
4190	Bank Charges	0.00	12.00	0.00	0.00	3.00	0.00	0%
4200	Audit	2,600.00	2,700.00	2,800,00	2,800.00	2,800.00	0.00	100%
4240	Capital Purchases	399,99	0.00	0.00	0.00	0,00	0.00	0%
	Totals	678,450,37	660,502.03	633,300.00	684,800,00	620,234,09	44,498.69	93%
	**E/R Expenses	202,161.70	11,093.26	103,000,00	120,000,00	112,613.67	0.00	94%
	TOTAL EXPENSES	880,612,07	571,595.29	736,300.00	784,800.00	732,847.76	44,498.69	93%
4020 DE	TAIL: Equip & Bldg, Repair/Main.			DETAIL: Equipmi	DETAIL: Equipr	nent & Replacer	<u>nent</u>	
	Auto Dialer Yrly Software Fee	500	Κ					
	Regular Maintenance	20,000	Κ	Replace wooden if	R <b>epiace</b> wooden	doors w/fibergla	000,8	
	UV Bulbs, Quartz Sleeves, Misc	10,000	×	Replace flow met l	Replace flow met	er for the effluer	25,000	<
	Painting RAS basement piping (	30,000	X	*Replace serator '	*Replace aerator	gear box - new	75,000	ζ
	Rock for road	3,000		- Inner				
	Sandblasting & paint Clarifler #3	30,000					103,000.00	

93,500.00

# OPERATING FUND INCOME AND EXPENSE SUMMARY 12/31/2023

Beginning Balance	363,396.12
Income - Osage Beach Income - Lake Ozark Income - Other	40,612.66 7,774.84
Income - Waste Haulers' Fees Interest - Checking Income - CD Interest Transfers From E/R Fund Transfers To E/R Fund Expenses	3,850.00 30.74 - (5,000.00) (39,498.69)
Ending Fund Balance	371,165.67
Central Bank - NOW Acct.	144,816.09
CD First Bank of the Lake, 2/20/25 #8432 CD First Bank of the Lake, 1/22/25 #8433	110,637,03 117,255,40
Outstanding Checks:	(1,542.85) 371,165.67

# EQUIPMENT REPLACEMENT FUND INCOME AND EXPENSE SUMMARY 12/31/2023

Beginning Balance	483,638.32
Interest - Checking Income - CD Interest Transfers From Operating Fund Income - Miscellaneous Expenses	180.63 5,000.00 - -
Ending Fund Balance	488,818.95
First Bank of the Lake - Money Mkt. CD First Bank of the Lake, 1/31/24 #8430 CD First Bank of the Lake, 5/07/24 #8434	103,898.01 114,920.94 270,000.00
Outstanding Checks:	488,818.95



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Alliance Water Resources (nc.

206 S. Keene St. Columbia, MO 65201

(573)87,4-8080



#### **REPORT OF OPERATIONS**

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

Month of December 2023

Submitted by Alliance Water Resources, Inc. for the January 2024

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		.coli Coliform olonies/100 ml	Ammonia as N mg/L	O&G mg/L
Monthly/Quarterly Avg	2.4	2.3	N/A	0.0	0.02	< 2.0
Peak Day	2.8	2.9	8.0	0.0	0.03	< 2.0
Percent Removal	98.9	99.3	N/A	N/A	N/A	N/A

#### NPDES EFFLUENT LIMITATIONS

	BOD mg/L	TSS mg/l	рН	E.coli Coliform Colonies/100 ml	Ammonia as N mg/L	O&G mg/L
Monthly/Quarterly Avg Weekly Average	30 45	30 45	6-9	126 630	3,1	10
Daily Max	-r w	-10		N/A	12.1	15

#### PLANT HYDRAULIC AND ORGANIC LOADING

The average daily influent flow for the month was 0.886 MGD or 30% of Permitted flow with Lake Ozark contributing 16% of the total flow and Osage Beach contributing 84%. 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 50450 pounds of BOD.

#### **BIOSOLIDS APPLICATION AND INVENTORY**

Plant personnel land applied 0 tanker loads of bio-solids during the month equivalent to a total of 0 gallons and 0 pounds dry weight solids.

434,621 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 337,500 gallons with a level of 4.5 feet in Tank 1 and 3.0 feet in Tank 2.

#### **WASTEHAULERS**

The plant received 29 loads of septage during the month totaling 77,000 gallons.

#### WWTP OPERATIONS

- · Decanting digesters and wasting weekly.
- Normal operations.

#### **WWTP MAINTENANCE AND REPAIR**

- Performed routine maintenance throughout the month as per Maxpanda Maintenance Data Management software schedule.
- A relay in the lift station at the digesters went bad and we replaced it on the 5<sup>th</sup> of December.
- One of the ducking skimmer trough supports on Clarifier #1 dropped down on the 8th of December, so we came up with a temporary support to hold it in place until we can take the Clarifier down to replace the support bolt.
- We pulled the old Flygt lift station pump out of the lift station at the aeration basins and installed the new backup Keen pump on the 20<sup>th</sup> of December. JCl picked the old Flygt up to evaluate it to see if it's repairable, and if so give us a quote.

#### SAFETY

 We conducted our monthly Safety Meeting on Chlorine Safety for Waster & Wastewater Operators, Handling Sodium Hypochlorite, Housekeeping Awareness, Ladder Safety: Safe-Use & Chainsaw Safety on the 19<sup>th</sup> of December.

#### REGULATORY AGENCY, INSPECTION AND REPORT

- We filled out the new EDMR on the EPA MoGEM website on the 8th of January.
- We received a letter from MDNR on the upcoming phosphorus limits. (see attachment)

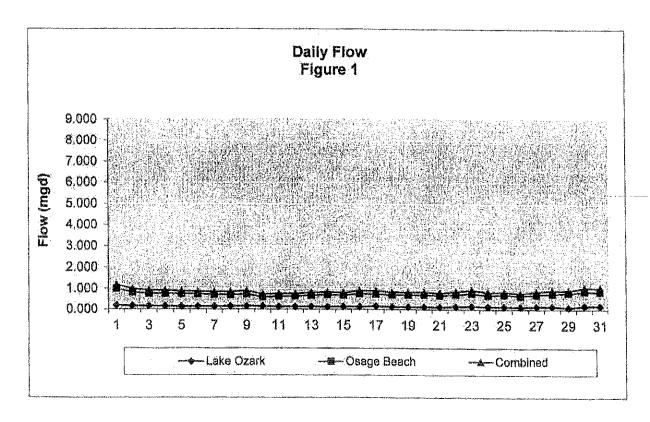
#### MISCELLANEOUS AND RECOMMENDATIONS

We have attached the updated 2024 ERP & Plant Inventory List for review.

## TABLE A LAKE OZARK/OSAGE BEACH WWTP

MONTH OF December 2023

DATE	·		FI	<b>JOW</b>		Alam	В	OD 5 M	G/L	TSS MG/L			
	RAIN FALL IN.	LO mgd	OB mgd	COMB mgd	% LO	% ОВ	LO mg/l	OB mg/l	COMB mg/l	LO mg/l	OB mg/l	COMB mg/l	
1-Dec	0,9	0.182	1.009	1.191	15.3	84.7	208	228	220	190	204	416	
2-Dec	0	0.165	0.820	0.985	16.8	83.2						Walter Harris Ha	
3-Dec	0	0.153	0.780	0.933	16.4	83.6		***************************************			<del></del>		
4-Dec	0.1	0.150	0.766	0.916	16.4	83,6						, , , , , , , , , , , , , , , , , , ,	
5-Dec	0	0.131	0.755	0.886	14.8	85.2	W Strange and Strain Strain	-inaliillaliinai;					
6-Dec	0.0	0.131	0.743	0.874	15.0	85.0			ON WHENCH CO. TO WHEN THE PROPERTY.	****	CONTRACTOR OF THE PARTY OF THE		
7-Dec	0	0.135	0.717	0.852	15.8	84.2				***************************************			
8-Dec	0	0.150	0.704	0.854	17.6	82.4	260	218	185	206	188	220	
9-Dec	0	0.149	0.741	0.890	16.7	83.3	***************************************		THE STATE OF THE S		· · · · · · · · · · · · · · · · · · ·	ANNE DE COMMUNICIONAL DE COMMUNICACIONAL DE COMMUNI	
10-Dec	Û	0.146	0.589	0.735	19.9	80.1		····	MT-Marking To-Sand Colonia Col		<del>/////////////////////////////////////</del>	mys pillippilling an area	
11-Dec	0	0.130	0.634	0.764	17.0	83.0	T// - 1/1/2/2	****	***************************************				
12-Dec	0	0.129	0.636	0.765	16.9	83.1			#		· In this distribution of the last of the	A STREET, STRE	
13-Dec	0	0.131	0.690	0.821	16.0	84.0	Name of Street or Street		See Berlin Hills de La Septembrie				
14-Dec	0	0.126	0.708	0.834	15.1	84.9	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	HELITA PARTIES		***************************************	entine due neglina neg	,, <del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>	
15-Dec	0	0.131	0.692	0.823	15.9	84.1	225	188	303	198	204	44	
16-Dec	0.25	0.133	0.769	0.902	14.7	85.3							
17-Dec	0	0.160	0.756	0.916	17.5	82.5	TO THE RESERVE THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN C	THE PROPERTY OF THE PERSON.				·	
18-Dec	.0	0.134	0.711	0.845	15.9	84.1			***************************************	······································	······································	Argent Cale and Argent Company	
19-Dec	0	0.128	0.711	0.839	15.3	84.7	// Williams			A PROPERTY OF THE PERSON NAMED IN COLUMN 1			
20-Dec	0	0.135	0.716	0.851	15.9	84.1	WY 75	A Partie of the Control of the Contr	t-continued of the town	······································	Kentur - Code ( terr ( All III )		
21-Dec	0	0.117	0.684	0.801	14.6	85.4	210	195	178	132	212	20	
22-Dec	0,7	0.142	0.734	0.876	16.2	83.8		***************************************	······································				
23-Dec	0.1	0.160	0.791	0.951	16.8	83.2	Valenti L				<del>n Tradulki zwa za</del> n	APPART TO THE PARTY OF THE PART	
24-Dec	Ū	0.146	0.699	0.845	17.3	82.7		A CONTRACTOR IN			**************************************	- Control of the Cont	
25-Dec	0.5	0.142	0.725	0.867	16.4	83.6	A Links greenstanding		Hilling action we') in the	THE RESERVE OF THE PERSON NAMED IN COLUMN 1	**************************************		
26-Dec	0	0.125	0.665	0.790	15.8	84.2	***************************************						
27-Dec	0	0.146	0.724	0.870	16.8	83.2					- wear and		
28-Dec	0	0.155	0.778	0,933	16.6	83.4	195	168	215	170	142	24	
29-Dec	0	0.108	0,820	0.928	11.6	88,4					***************************************	<del> </del>	
30-Dec	0	0.188	0.888	1,076	17.5	82.5	-						
31-Dec		0.187	0.871	1.058	17.7	82.3							
SUM	3,4	4,445	23.026	27,471		<b>_</b>							
AVG	1	0.143	0.743	0.886	16	84	220	199	220	179	190	308	



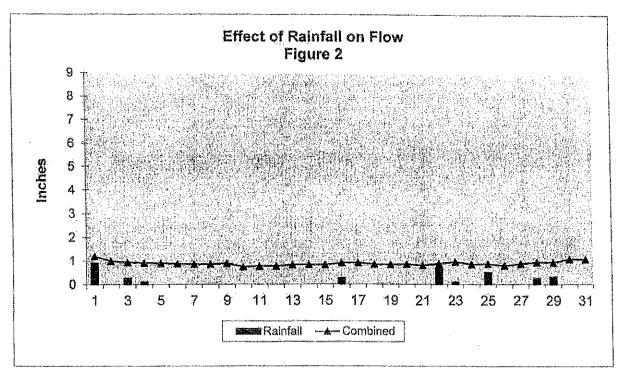
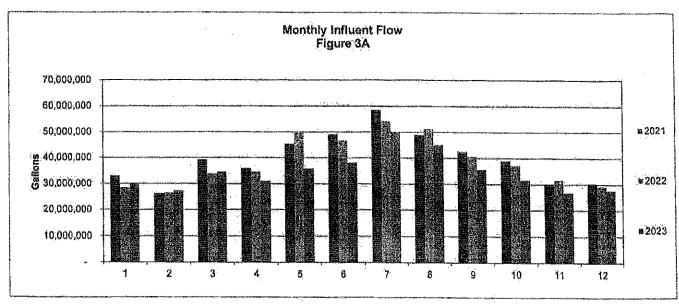
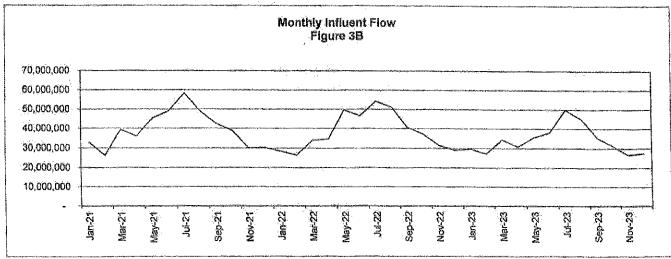
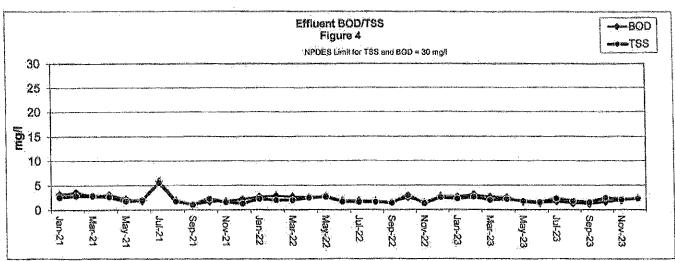


TABLE B
JOINT SEWER BOARD
Monthly Flows

2021	RAINFALL	OSAGE BEACH		LAKE OZARK		TOTAL	%
January	6.0		85%		15%	32,962,000	100%
February	3.0	22,136,000	85%	the state of the s	15%	26,184,000	100%
March	4.0	32,848,000	84%	6,450,000	16%	39,298,000	100%
April	5.2	30,179,000	84%	5,792,000	16%	35,971,000	100%
May	5.2	37,964,000	84%	7,479,000	16%	45,443,000	100%
June	8.0		85%	7,390,000	15%	49,085,000	
July	6.9	"Val V 156, 5 ;	85%	9,000,000	15%	58,378,000	100% 100%
August	1.8	41,691,000	85%	7,211,000	15%	48,902,000	
September	3.1	36,185,000	85%	6,306,000	15%	42,491,000	100%
October	6.0	32,925,000	85%	5,987,000	15%	38,912,000	100% 100%
November	0.8	25,192,000	83%	5,025,000	17%	30,217,000	100%
December	2.3	25,041,000	82%	5,317,000	18%		
13 oppilition	die voor	Sigiou Finon	0270	527.73000	1070	30,358,000	100%
	52.2	403,341,000	84%	74,860,000	16%	478,201,000	100%
2022	RAINFALL	OSAGE BEACH		LAKE OZARK		TÔT AT	0/
January	1.7	23,599,000	83%	4,824,000	17%	<u>TOTAL</u> 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	
April	6.3	28,580,000	82%	6,088,000	18%	34,668,000	100% 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%
			K 457		······································		
	5	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%	4,282,000	16%	26,657,000	100%
December	3.4	23,026,000	84%	4,445,000	16%	27,471,000	100%
	42.7	349,262,000	85%	63,319,000	15%	412,581,000	10007
	24.1	JAPINOJUUU	9279	000,77,000 5	1370	*14,201,VVV	100%

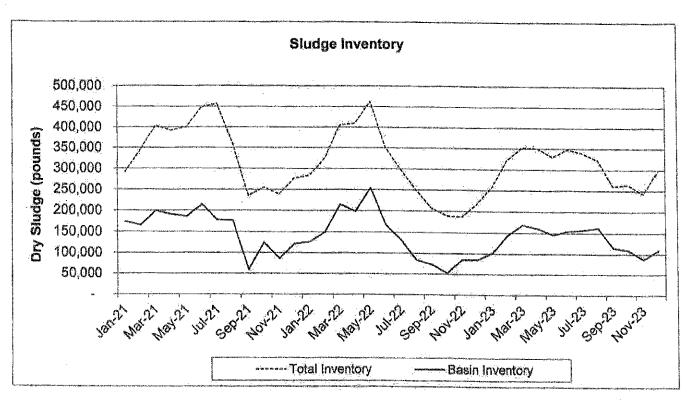


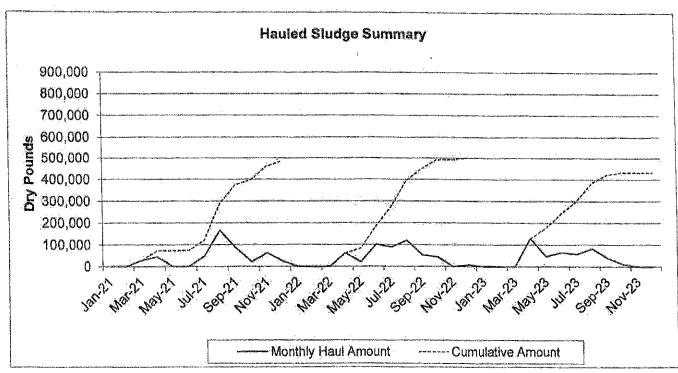




	<u> </u>		Haufed	Studge			in Depth				1	riket Depths		MLSS In		Blanket and M	The state of the s	MLSS	Total Dry	Accepted	
	Loads	Gallons			nreal Cumulative # Dry	Tank#1 T	ank#2	AB#1 E	Basin Gallons	#.Dry	Clart #1			ALSS AB #1 N			# Dry		Siudge Inventory	Loads	Gallons
Jan-21	O.	~	0	4:4%	-	7.0	3.5	0.0	.472,500	173,389	6.0	0.0	1.0	3,810	3,780	3,750,000	118,689	0.0038	292,077	83	205,500
Feb-21	0	-	.0	4.4%	•	5.0	5.0	0.0	450,000	165,132	5,0	8,0	0.0	5,490	5,750	3,830,906		0.00552	344,690	28 32	69,500 70,000
Mar-21	23	85,100	28,863	4.1%	28,883	6.0	7.0.	0.0	595,000	198,549	2.0	5.0	0.5	8,830	6,330	3,746,046	205,573	0.00658	404,122	22	52,000
Apr-21	39	144,300	45,269	3.8%	74,152	6.0	7.5	3.0	607,500	190,582	12.0	5.0	1.0	6,890	5,350	3,945,382	201,375	0.00612	391,957	48	
May-21	0	_	:0	3.8%	74,152	6,0	7.0	0.0	585,000	165,398	13.0	14.0	1:0	5,200	6,330	4,123,002	215,427 234,903	0.00627 0.00717	400,825 448,824	40 83	128,500 151,500
Jun-21	0	-	C	3.8%	74,152	7.0	8.0	0.0	675,000	213,921	6,0	7.5	2.0	7,260	8,060	3,926,643			457.007	117	289,000
Jul-21	40	144,000	47,378	3.9%	121,530	5.0	7,0	9.0	540,000	177,688	7.0	12.0	3.0	9,190	8,110	4,067,762	279,340	0.00823		13.f 66	
Aug-21	153	550,800	156,353	3.6%	287,893	7,0	6.0	0.0	565,000	176,593	1,0	1,0	0.5	5,160	5,840	3,657,238	183,008	0.0058	359,701	62	163,000 159,500
Sep-21	92	331,200	87,226	3.2%	375,119	2,0.	3.0	0.0	225,000	59,257	1.0	1.0	0.5	5,320	6,120	3,657,238	175,383		234,640 255,554	24	80,000
Oct-21	17	61,200	22,698	4.4%	397,817	3.5	4.0	0.0	337,500	125,173	1.0	0.5	0.5	4,430	4,140	3,648,357	130,381	0.0043		37	
Nov-21	45	166,600	63,521	4.6%	461,438	3.0	2.0	0.0	225,000	85,442	0.5	1,0	0.0	5,130	4,980	3,628,643	152,138	0.0050	238,580	3) 27	83,000 62,000
Dec-21	16	67,600	24,139	5.0%	485,577	4.0	2.5	0,9	292,500	122,581	1.0	1.0	0,6	4,540	5,630	3,635,524	154,179	0.0051	276,759		
Jan-22	0		Q	4.5%		4.5	3.0	0.0	337,500	125,664	1.0	3.5	0.0	5,080	5.180	3,679,929	157,138	0.0051	283,800	13	27,000
Feb-22	Ö		0	4.0%		7.9	3,9	0.0	450,000	150,120	4,0	1.5	0.0	6,260	5,030	3,697,691	174,393	0,0057	324,513	32	68,000
Mar-22	ō	_	- 0	4.4%		5.0	7.0	0.0	585,000	214,572	9.0	10.0	0.0	5,870	5,760	3,937,478	190,484	0,0058	465,135	23	48,090
Apr-22	47	169.200	62,120	4.4%	52,120	7,0	5.0	0.0	540,000	198,255	10.0	10.0	1.0	7,100	5,600	3,998,668	211,755	0.0064	410,021	52	124,500
May-22	16	57.600	21,017	4.4%	83,137	6.5	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	462,281	37	85,000
Jun-22		302,400	102,052	4.0%	185,189	7.0	4.0	0,0	495,000	167,049	4.5	0,5	1.5	5,760	6,010	3,753,952	184,247	0.0059	351,297	42	93,500
Jul-22	80	288,000	38,961	3.7%	274,150	7.0	2.5	0.0	427,500	132,051	8,0	3.0	1.5	4,740	5,560	3,860,524	168,295	0.0052	298,348	33	69,500
Aug-22		388,800	120,426	3.7%	394,576	2.0	4.0	0.0	270,000	83,629	1.5	1.0	0.5	5,490	5,420	3,656,119	166,789	0,0055	250,418	168	300,000
Sep-22	51	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	0,6044	207,251	76	168,000
Oct-22	42	151,200	44,405	3.5%	493,054	1:0	3.0	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	71,000
Nov-22		151,200	n	3,5%	493,054	4.0	2.5	0.0	292,500	85,381	1.0	1,0	0.0	4,330	2,340	3,635,524	101,573	0.0034	186,954	38	89,500
Dec-22	g:	28,800	7,746	3.2%	500,800	4.0	3.0	0.0	315,000	64,722	1.5	1.5	0.0	4,510	4,270	3,653,286	133,756	0.0044	218,478	33	71,500
Jan-23	ň	,2.0,000	n	3.2%		5.0	3.5	0.0	382,500	102,082	1.0	1.0	0.0	4,880	5,380	3,635,524	155,543	0,0051	257,525	35	74,500
Feb-23	. 6	<u>-</u> :	ň	3,2%	-	6.5	5.5	0.0	540,000	144,115	2.0	2:0	0.0	6,060	5,570	3,671,048	177,882	0.0058	321,997	38	87,500
Mar-23	i n	_	90	3.2%	-	7.0	7.0	0.0	630,000	168,134	1.0	2.0	t.¦G	5,310	6,640	3,695,714	184,213	0.0060	352,347	50	115,500
Apr-23	116	417,000	129,223	3.7%	129,223	7.5	4.0	0.0	517,500	160,357	1.0.	1,0	1,0	5,200	6,170	3,678,952	189,771	0,0062	350,138	82	171,500
May-23	48	172,800	46,747	3.2%	175,970	6.0	6.0	0.0	548,000	146,084	0.5	9,0.	0.5	5,120	5,530	3,790,45\$	184,142	0.0058	330,225	49	102,500
Jun-23		208,600	55,362	3.8%	241,332	6.0	5.0	0.0	495,000	154,953	1.5	4.0	0.5	6,020	5,440	3,719,405	193,254	0.0052	348,207	59	131,500
Jul-23	51	183,600	58,307	3.8%	299 639	6.0	5.0	0.0	495,000	157,200	.2,0	3.5	0.5	6,630	5,710	3,719,405	182,086	0.0059	339,287	61	120,500
		286,400	83,587	3.8%	383,226	7.0	4.5	0.0	517,500	162,373	1.0	1.0	0,5	5,600	4,910	3,657,238	160,285	0.0053	322,658	23	66,500
Aug-23 Sep-23	34	122,400	39,271	3.8%	422,497	7.5	0,5	0.0	360,000	115,503	1,0	1.0	0,5	4,780	4,750	3,657,238	145,339	0.0048	269,842	84	164,000
Oct-23	9.5	34,200	11.124	3.9%	433,621	7:5	0,0	0.0	337,500	109,778	0.5	0,5	0,5	4,530	5,560	3,639,476	154,650	0.0051	284,426	40	85,500
Nov-23	5,0	- Contract	6	3,9%	433,621	3.0	3,0	0.0	270,000	87,820	20	2.0	0.5	4,550	5,540	3,692,762	155,374	0.0050	243,194	30	59,000
	Ů.		6	3.9%	433,621	4.5	3.0	0,0	337,500	109,775	1.0	3.0	0.0	5,730	6,450	3,671,048	188,455	0.0051	298,230	29	77,000
Dec-23	U	* '	¥	U.577	********			7.		+1 +											

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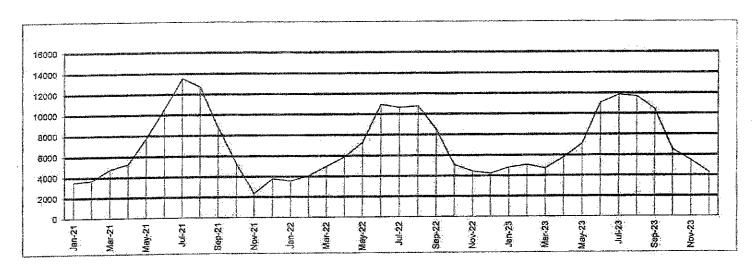




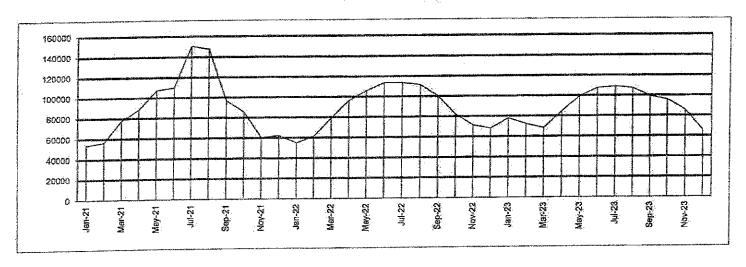
#### Electric Cost Kilowatts Used

#### 3524 53,730 Jan-21 3696 56,370 Feb-21 Mar-21 4776 77,720 88,390 Apr-21 5281 107,320 May-21 7727 110,130 Jun-21 10610 150,740 13533 Jul-21 12737 147,810 Aug-21 8751 Sep-21 96,600 Oct-21 5233 85,530 60,370 Nov-21 2348 3776 62,100 Dec-21 Jan-22 3547 55,070 Feb-22 4063 61,330 79,050 Mar-22 4979 96,160 Apr-22 5907 106,100 May-22 7292 113.870 Jun-22 10958 Jul-22 10648 113,590 10800 111,690 Aug-22 Sep-22 8498 100,470 82,030 Oct-22 5071 71,240 **Nov-22** 4451 68,000 Dec-22 4224 77,980 4809 Jan-23 72,420 5074 Feb-23 68,320 Mar-23 4730 84,440 5801 Apr-23 99,300 May-23 7128 Jun-23 11076 107,520 11845 109,070 Jul-23 107,330 Aug-23 11697 99,140 Sep-23 10438 6553 96,000 Oct-23 85,570 5474 Nov-23 65,618 4293 Dec 23

#### **Electric Cost**



### Kilowatts Used





# MISSOURI DEPARTMENT OF NATURAL RESOURCES DIVISION OF ENVIRONMENTAL QUALITY

Discharge Monitoring Report For Municipal Wastewater Treatment Plants

APPLAN.	The state of the s	NAME	OF FA	CILITY	<del>white we seem i</del>				LOCAT	ON ADDRE	SS & CIT	ſΥ	Zanapropriis po ne ne za communa	and the same of	
	Lake o	f the Oz	arks Re	gional WW	TP #1					S Anderson				COUNTY	
MONTH	Total Control of the			PERMIT NL			DUTFALL I	NUMBER	77 C			EATMENT	FACILITY	Miller/S	WKO
Dec-	23			MO-0103	241		#001 Oxidation Ditch/UV/Sludge Holding-sludge is land applied								
	1	INFLU	ENT	Ammonia					EFF	LUENT Ammonia				% Ren	
DATE	pH UNITS	BOD mg/L	TSS mg/L	as N mg/l	TEMP °C	FLOW MGD	pH UNITS	BOD mg/L	TSS mg/L	as N mg/l	DO mg/L	E. coli COLFRM #/100 ML	TEMP °C	BOD mg/L	TSS mg/L
1	7.4	220	416		15,1	1.448	8.0	2.2	2.6		10.8		12.0	99.0	99.4
2	7.1				14.0	1.154	7.6				12.2	PHOTO COLUMNICA HISTORY	11,8		Christian Co. B. C. of Trans
3	6.8				14.2	1.152	7.5			· · · · · · · · · · · · · · · · · · ·	12,4		11.5		
4	6.9	Ì			14.2	1,122	7.5		THE PARTY OF THE P		13,1		11.9	**************************************	
5	6.9				13.2	1.172	7.5			***************************************	11.4		11.8		
6	7.3	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		27.9	13.0	1.081	7.4		<del>- Holles (is 1</del> moreocoum	0.02	11.2	THE COLUMN TWO IS NOT THE COLUMN TWO	11.0	within the state of the state o	
7	6.9			7,000	15.1	1.027	7.9		<del>тако жалға</del> н штақ		11.4	O.F	12.1		
8	7.0	185	226	Amortine (Amortine Colored	14.5	1.101	7.9	2.2	2.5		10.8	A	12.5	98.8	98.9
9	7.5	- HINNEY WARREST TO A SERVICE OF THE	Der Meller agen Agentum (A)	A CONTRACTOR OF A CONTRACTOR O	14.4	1.090	8.0	***************************************	·····		10.5		12.4	. 41.90 (1.44	
10	7.4	- Approximation and a second	· · · · · · · · · · · · · · · · · · ·		13.7	0.916	7.6				11,1	XX	11.0		- The same of the
11	6.8				13.0	0.955	7.6	HIP HIM	THE PARTY OF THE P		11.8		12.3		
12	6.9	ACT OF THE OWNER	Annual Security of Security Se		13.1	0.970	7.5	***************************************			11,4	W. 10.00	9.9		Washir - mone
13	7.1			18.0	12.9	1.040	7.4		- <del>************************************</del>	0.02	11.4		10.2	-Y	<del></del>
14	6.9	Market	r.mm###.www.www		11.8	1.055	7.5	Wystern Tellicula 100			11.7	mardamarania di delegara began	10.2	***************************************	
16	6.9	303	448		14.1	1.066	7.5	24	2.9	······································	11.9	Marian and American	11.1	99.2	99.4
16	6.9				14.4	1,111	7.5		.,.		11.6		11.8	······································	************
17	7.0	- Indian Comments (A)	179		13,5	1.131	7,5	-	***************************************	**************************************	11.7	4	11.6		· ************************************
18	6.9		-T> Brad to Company		12.7	1.046	7.4		Mr. commission districts		11.8		10.9	- <del>Top op</del> primites - <del>the sec</del>	
19	6.9			16.0	.13:0	15,070	7.6			0.02	14.5		9.6	· Lill	
20	7.0				13.3	0.965	7.5		CEDANIA MARINE	STATE OF THE PARTY	14.8		10.2	A STATE OF THE STA	TE TOOLS AND THE SPORM
21	7.0	178	206		13.6	1:057	7.5	2.6	1.6	-	14.7	**************************************	10.2	98.5	99.2
22	7.0			The state of the s	14.7	1.127	7.6				11.8		12.0		
23	6.9				14.5	1,185	8.0		1		10.5	***************************************	12.8	COSTON CONTRACTOR CONT	
24	7.1	- S-48.60000.00mm.40.00mm			14.7	1.079	8.0		E art Northwese with mission leve		10.1		13.9		
25	7.0	· IIII TIII TAANKI / AAGU			13.8	1.100	7.7			· · · · · · · · · · · · · · · · · · ·	10.4		13,3	- подраждани	
26	6.9			10.0	13.4	1.012	8.0			0.03	10.9		12.2		
27	6,9	The state of the s	<u> </u>		13.2	1.113	7.5		***************************************		11.2		11.1	ļ <del> </del>	
28	7.1	215	244	P CATALON LONG.	13:4	1.191	7.7	2.8	1.7		11.8		10.7	98.7	99.3
29	6.8		C. F. D la constituents		12.3	1.173	7.4		1		12.6		10.0		
30	6.8	**************			12,3	1.331	7.5		1	<u> </u>	12.4		9.8		**************************************
31	7.2				12.3	1.307	7.7		1		12.9		9.9	n	***************************************
Total						34,347	100000000000000000000000000000000000000								
Avg		220	308	18.0	13.6	1.108			2.3	0.0	11,8	0.0	11.3	98.9	99.2
Viin	6.8	178	206	10.0	11.8	0.916	7.4	2.2	1,6	0.0	10.1	0.0	9.6	98.5	98.9
Vax	7.5	303	448	27.9	15.1	1.448	8.0	2.8	2.9	0.0	14.8	0.0	13.9	99.2	99.4

	MONTHLY 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	Selenium mg/L	Hardness mg/L	Phosphorus mg/L	TKN mg/L	Nitrite+Nitrate mg/L		
1		And the second s	)			A-con correction with a second control of the contr		118/	1118/ -	1118/ -		
2								CONCRETE TO THE PARTY OF THE PA				
3						<u> </u>		A STATE OF THE STA	Transfer Committee Co			
4		and the second s		Y-hamilikaning a manggapaning was	The state of the s	710.23-23-24-24-24-24-24-24-24-24-24-24-24-24-24-	Tarange v : testa ytte cargolium illumina	- <del>1 - 11 - 11 - 11 - 11 - 11 - 11 - 11</del>		The state of the s		
5	WILLIAM (\$1,000)		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	The state of the s				Market of the second of the se				
6	3.61	0.201	8.05	And the state of t		All the second s	TO THE RESERVE OF THE PARTY OF	5.86	41.8	< 0.030		
7	**************************************	MINISTER COMMUNICATION PROPERTY.	Control of the Contro			······································	**************************************			A STATE OF THE STA		
8	**************************************		A STATE OF THE STA		The state of the s	ine and the second	1	<u> </u>	-			
9	***************************************		A CONTRACTOR OF THE PARTY OF TH	***************************************	The second secon				· mm. a.m. a · Monda mire h b is	A STATE OF THE STA		
10				24 Total Advantage of the Control of	v - минициприципи	Market Workship Walter	· · · · · · · · · · · · · · · · · · ·	Annua '				
11		mante-re-common desirable	A CONTRACTOR OF THE PARTY OF TH	7	-	magon es alude			MANAGEMENT AND STREET	and a gloring plant of the second		
12	**************************************	······································	CONTRACTOR	A CONTRACTOR OF THE PARTY OF TH	The state of the s				TIME TO STATE OF THE STATE OF T	Married and the second		
13		inem mer till till para en inem		W.C. TOWNSHIP CO. C.				W. W	***************************************			
14	**************************************	Treatment of the second	20 48	· · · · · · · · · · · · · · · · · · ·	The state of the s				÷ж.шиз-дүчж-111.33			
16		Annual Control of the	Waliota Commercia de Santo (SAM) Marie - Marie					And the state of t		**************************************		
16	- THE PROPERTY OF LAND ASSESSMENT OF THE PARTY OF THE PAR	ner-100 <del>11</del> Milysle) legippings		II. III. II. II. III. III. III. III. I	- Committee and				and the second s	The second control of		
17		THE SHAPE STATE OF THE STATE OF	O new pHK/p/throwth.commerce.com.com.com.com.com.com.com.com.com.com		***************************************	ALL THE STATE OF T		A	in the sales we must be sales			
18		And the second s		**************************************	***************************************	dan tapada sa rawa si Miran yang s	**************************************	- in the second		, , , , , , , , , , , , , , , , , , ,		
19		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		· · · · · · · · · · · · · · · · · · ·	The second secon	· · · · · · · · · · · · · · · · · · ·		The state of the s	· · · · · · · · · · · · · · · · · · ·	A THE PARTY OF THE		
20		warrad (warrad) W Inda (S), Imaga	A CONTRACTOR OF THE CONTRACTOR		Annual popular proportion of the second		***************************************	**************************************	2004 MM-2004-A-Martinet School			
21	<del></del>	v kanada ana ana ana ana ana ana ana ana an	a karani irang Masailitana sasir namagarang Kasasadi aryokalan ada dikana manamanan	·		formalism I makes I ma	, i incress and the second	**************************************	icolo <del>ca produčana prac</del>			
22							······································	SPA i and in male to wrom the state of the s		AND THE REAL PROPERTY AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF T		
23	**************************************	Commence of the same of Marie	AND THE PROPERTY OF THE PROPER	***************************************				The Continue of the Continue o		The second secon		
24	-17 (A-)		O states I				110,4			THE RESERVE OF THE PERSON OF T		
25		in the state of th	and the second s	**************************************	na in makana kika ja ali kagaminya indi into maliyoyang	***************************************		The state of the s		· · · · · · · · · · · · · · · · · · ·		
26	And the state of t			P. J. H., Xina and American Services					**************************************	(4.0 mm)		
27	· · · · · · · · · · · · · · · · · · ·				- Open of the state of the stat				***************************************	- Annual Control of the Control of t		
28				1.6	are annual material de la constantial de la cons			THE VIEW MARKET				
29	**************************************	, , , , , , , , , , , , , , , , , , ,		Particular anni estava a maria		The state of the s	A CONTRACTOR OF THE CONTRACTOR					
30			was in the same parameter and the same parame						The state of the s			
31				· · · · · · · · · · · · · · · · · · ·					- III.	**************************************		
otal		0.201	8(05)					JF GP	Jun 8	**************************************		
\vg	3.61	0.201				ALL AND THE PROPERTY OF THE PARTY OF THE PAR		5.9	41.8			
⁄iin	3,61	0.201				***************************************	. P. 22	5:9	41.8	ALTONOMINE TO A CONTRACT OF THE PARTY OF THE		
Лах	3.61	0.201	1		- and			5.9	41.8			

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

	SLUDGE	eration Ba	sin O.Din	ch Eta	c. #2 Aeration Basin, O-Ditch, Etc. *Weather Conditions								
	DISP.		MIXED			Tre A	MIYED	LIQUOR	ch, Etc.		er Con	ditions	
	LBS. DRY	* DO	** MLSS	*Settle		* DO	** MLSS	*Settle		Outside * Ambient	#Praiser	rogs t	
DATE	WEIGHT		·	*30 min	Temp		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	*30 min	Temp	Temp	MAIN	Time	
Dec-23		mg/l	mg/l	ml	°C	mg/l	mg/l	ml	°C	o L.	Inches		
1		3.5	5,260	810	13.2	3.5	5,830	850	13.2	50	0.90	7:30	
2		7.1	5,030	760	12.1	6.8	5,650	860	12.1	44	0	7:30	
3		7.2	5,220	800	12.0	7.5	5,670	.870	11,9	40	0.25	7:30	
4		7.1	5,400	800	12.0	3,2	5,850	850	12.6	44	0.10	7.30	
		5.8	5,580	750	12,1	3.9	5,670	850	12.2	44	0	7:30	
6		4.8	5,350	810	11.2	3.8	5,750	820	11.7	35	0	7:30	
7	al la Windowskie on a markana je Walikistika (ja priigyska remokria	4.1	5,810	760	12,9	2.9	5,400	820	12.6	50	0	7:30	
8		3.4	5,180	780	13,0	2.8	5,810	850	13.3	49	Ö	7:30	
9		4.6	4,850	650	12.9	3.4	5,780	860	13.1	47	0	7:30	
10		5.8	5,230	760	11.7	5.9	6,130	840	11.7	30	0	7:30	
11		5.2	5,200	780	11.7	5.3	5,760	850	12.1	32	0	7:30	
12		4.2	5,330	820	10.7	4.4	5,400	840	10,9	32	0	7:30	
13		4.2	6,500	880	10.3	4,4	5,060	790	11.0	38	0	7:30	
14		3.0	6,340	840	10.6	4.9	5,720	800	11.6	34	0	7:30	
15		2.8	5,640	820	11.6	3.6	6,190	860	12.1	45	. 0	7:30	
16	And a party to a market or positive a water to it is a few debits or with	3,4	6,060	810	12.2	2.7	6,490	870	12.6	52	0.25	7:30	
17		3.1	6,230	810	11.8	2.7	5,860	830	12.2	44	0	7:30	
18		1.8	6,130	830	11.3	2.4	6,260	840	11.9	36	Ö	7:30	
19		3.5	6,020	850	10.2	3.0	6,270	-860	10.5	27	0	7:30	
20		4,1	5,790	810	10.9	3.7	5,810	840	11.1	43	0	7:30	
21	Anna graph Maria and Araba Anna and	2.6	6,110	820	11.6	2.4	5,610	770	12.0	50	Ö	7:30	
22		1,4	6,320	800	12.5	2.0	5,570	780	12.6	53	0.70	7:30	
23		1.8	6,180	840	13,5	2.0	5,710	760	13.3	54	0.10	7:30	
24		1.8	6,340	800	14.0	2.2	5,590	780	14.0	58	0	7:30	
25		1.4	6,680	830	13.8	2.5	5,310	750	13.9	54	0.50	7:30	
26		1.5	6,350	850	12.0	2.6	5,670	760	11.8	37	0	7:30	
27		1.5	6,200	810	11.9	3.0	5,660	800	11.9	40	0	7:30	
28	والمستنسبة والمستنسبة والمستنسبة والمستنسبة	1.7	5,980	800	11.6	2.6	5,820	820	11.3	41	0.25	7:30	
29	v della mende della dell	1.6	5,920	820	10.5	1.7	6,100	870	10.8	37	0.3	7:30	
30	***************************************	2.6	5,610	820	10.3	3.2	6,090	840	10.9	32	0	7:30	
31 COMMENTS		3.2	5,730	770	10.2	2.7	6,450	880	10.6	37	0	7:30	

TESTS PERFORMED BY (PRINT)			
	SIGNATURE	PHONE #	DATE
John Homback	Crow Hornback	(573)365-0455	1/8/2024
REPORT APPROVED BY (PRINT)	SIGNATURE	PHONE #	DATE
Gary Hutchcraft	Day Sutetias	(573)365-0455	1/8/2024

\*Required Daily (Monday - Friday)

\*\*Required I/week

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

Central Field Operations P O Box 176 Jefferson City, MO, 65102

Permit Number	Outfall Number		
MO010324)	001M		
Monitorii	7**		
12/1/23	12/31/23		
NODI:	***		

Parameters	Reporting Requirements			Unit	Reporting Requirements		Unit
Flow, in conduit or thru treatment plant	<b>水水水油</b>	赤帆冰水水	*中学**	****	1.448	1,108	Mgal/d
Mon. Location.: End of Pipe	本书表的表"表#张本章	· 李本本化學 · 李本本本	******		Daily Max.:Monitoring Required	Monthly Avg.:Monitoring Required	
Sample Type: Total Measured		1					
Prequency: Daily						Cità	
BOD, 5-day, 20 deg. C	李本本本	2.8	2.4	nig/L	****	****	****
Mon. Location : End of Pipe	****	Weekly Avg.:45	Monthly Avg.:30		· · · · · · · · · · · · · · · · · · ·	****	
Sample Type: 24 Hour Composite		S. Actions	S. COOMMING.		(SS_Aren-Manage)		
Frequency: Weekly	Company of the Compan	e announce to		- Contraction of the contraction			- Aller
Total Suspended Solids (TSS)	****	2.9	2.3	mg/L	****	李学家家.	****
Mon. Location.: End of Pipe	赤水布米水中水水	Weekly Avg.:45	Monthly Avg.:30		****	****	
Sample Type; 24 Hour Composite							
Frequency: Weekly							
Phosphorus, total (as P)	3.61	本市集造中	3,61	mg/L	***		****
Mon, Location: End of Pipe	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		· 本杂· · 本杂· · 本· · · · · · · · · · · · ·	*****,****	
Sample Type: 24 Hour Composite	N CONTRACTOR OF THE PROPERTY O		a de l'amanda		A CONTRACTOR OF THE PROPERTY O	er commenter	
Frequency: Monthly	The state of the s	***************************************			- Automotive Control	_	
Nitrogen, Kjeldahl, total (as N)	0,201	****	0,201	mg/L	*章**	李章事章	****
Mon. Location.: End of Pipe	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required	7	******	<b>本</b> 承安华· · · · · · · · · · · · · · · · · · ·	
Sample Type: 24 Hour Composite		- Landanie Barriera			O COLOR DE LA COLO		
Frequency: Monthly							
Nitrite plus nitrate total (as N)	8.05	****	8,05	mg/L	李宇本章	华采北季举	***
Mon. Location: End of Pipe	Daily Max.:Monitoring Required	**************************************	Monthly Avg.:Monitoring Required	10 mm 17 mm	李本本南南,华华中华家	*****	
Sample Type: 24 Hour Composite			of the second se				P. C.
Frequency: Monthly				in the second			
Nitrogen, ammonia total (ås N)	0.03	****	0.02	mg/L	***	本 章 · · · · · · · · · · · · · · · · · ·	****
Mon. Location.: End of Pipe	Daily Max : 12.1	*****	Monthly Avg.:3.1		*****	*****	
Sample Type: 24 Hour Composite	The state of the s	77 man				Service and the service and th	
Frequency: Weekly	[1] [1] [1] [1]						

Comments:

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

Central Field Operations P O Box 176 Jefferson City, MO, 65102

pH	7.4	*****	8.0	su	*****	****	海水市水
Mon. Location,: Bad of Pipe	Minimum:6.0	****	Maximum:9.0		· · · · · · · · · · · · · · · · · · ·	*****	
Sample Type: Grab			16			, Tomas (1888)	
Frequency: Weekly						and the second	
BOD, 5-day, percent removal	****	***	98.5	%	****	<b>春寒舟寒</b> 孝	****
Mon. Location,: End of Pipe	安妆李老爷 <sup>4</sup> 昨晚晚班休	******	Monthly Avg. Min.:85	Section of the sectio	*************************************	*************************************	
Sample Type: Calculated	- Tables and Adoles	W. SEA	, parametriology		School of the second of the se		
Frequency: Monthly						. C. Constant	
Suspended Solids, percent removal	*****	***	98.9	%	****	****	***
Mon, Location. End of Pipe	******	李本水本, 中电水水本	Monthly Avg. Min.:85	-	· 南南华港州。春港市市	*****	
Sample Type: Calculated		5 Tarana - 1 Maria	<b>X</b>	4-41-12-12-12-12-12-12-12-12-12-12-12-12-12	CAR CONTROL OF THE PARTY OF THE	N	
Frequency: Monthly	3 de la companya de l		I 17 17 17 17 17 17 17 17 17 17 17 17 17		10 may 10		

Comments:

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

Central Field Operations P O Box 176 Jefferson City, MO, 65102

Permit Number	Outfall Number		
MO0103241	INFIM		
Monitoria			
12/1/23	12/31/23		
NODI;	****		

Parameters	Reporting Requirements			Unit	Reporting Requirements		Unit
BOD, 5-day, 20 deg. C	非安全市本	****	220	ing/L	****	****	申水水油市
Mon. Location.: Influent	*************************************	*****	Monthly Avg.:Monitoring Required	-	*******	水南和水水, 李宗朱非恭	
Sample Type: 24 Hour Composite		and the second s					
Frequency: Monthly			K				
Total Suspended Solids (TSS)	****	李字本章电	308	mg/L	<b>作文字</b>	****	***
Mon. Location.; Influent	在水水水和**********************************	******	Monthly Avg.:Monitoring Required		本本本本本。	*****	
Sample Type: 24 Hour Composite						The state of the s	
Frequency: Monthly						100000000	
Nitrogen, ammonia total (as N)	27.9	·告帐准章本	18.0	mg/L	华泽安安泰	*中水赤中	****
Mon. Location.: Influent	Daily Max.:Monitoring Recjuired	水油水水水 泰安水安保	Monthly Avg.:Monitoring Required		*****	****	200
Sample Type: 24 Hour Composite				and addressed to the same of t			
Frequency: Monthly	THE STATE OF THE S	No. of Control of Cont	The state of the s	Target Contra		440000	
Phosphorus, total (as P)	5.86	泰米井孝米	5,86	mg/L	****	****	***
Mon. Location.: Influent	Daily Max.:Monitoring Required	****	Monthly Avg.:Monitoring Required		****	*************	
Sample Type: 24 Hour Composite	10 mp/444444						
Frequency: Monthly	T	7. G. (1975)	3)	<b>3</b> 7		7.00 	
Nitrogen, Kjeldahl, total (as N)	41.8	****	41.8	mg/L	本本本本	李晓章奉告	****
Mon. Location.: Influent	Daily Max.:Monitoring Required	*****	Monthly Avg.:Monitoring Required		海水中水流; 本典水水水	*****	
Sample Type: 24 Hour Composite	T GOOD TO THE TOTAL THE TOTAL TO THE TOTAL TOTAL TO THE T		A PLANTAGE AND A PLAN	APA-APA-APA-APA-APA-APA-APA-APA-APA-APA			
Frequency: Monthly	C Common		7	#			
Nitrite plus nitrate total (as N)	<0,030	****	<0.030	mg/L	*#**	***	****
Mon. Location.; Influent	Daily Max.:Monitoring Required	*****	Monthly 'Ayg.:Monitoring Required	The state of the s	紫布本布本主要与布索如	本班老本本本本本	
Sample Type: 24 Hour Composite	15 15 16	17. market				<u>4</u>	
Frequency: Monthly	2	#	ì				

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

Central Field Operations P O Box 176 Jefferson City, MO, 65102

l certify under penalty of law that this decument and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel property gather and system; or those persons directly responsible for gathering the information, the information submitted is, to the best of my knewledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing yielstions.

eSignature Submission Date User Phone Number Gary Hutchcraft January 8, 2024 (573)365-0455



Michael L. Parson Governor

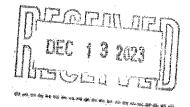
> Dru Buntin Director

December 6, 2023

CITY OF LAKE OZARK AND OSAGE BEACH P.O. BOX 370 LAKE OZARK, MO 65049

RE:

Updates to 10 CSR 20-7.015 Effluent Regulations LAKE OF THE OZARKS REGIONAL WWTP 1 - MO0103241



#### Dear Permittee:

Your wastewater treatment facility has been identified as a facility that may be impacted by recent revisions to 10 CSR 20-7.015 Effluent Regulations which became effective October 30, 2023. This rule applies to all domestic point sources with a design flow greater than or equal to 1 million gallons per day (MGD) and all industrial facilities categorized as major that typically discharge phosphorus in their industrial wastewater, except for facilities subject to provisions in 10 CSR 20-7.015(3)(E), (3)(F), (9)(A)4., and (9)(A)5., or where more stringent phosphorus limits have been established. Target reduction levels are as follows:

- 1. Total phosphorus target level of 1.0 milligrams per liter (mg/L), as an annual average;
- 2. Total phosphorus annual mass loading target level equal to 1,0 mg/L based on design flow;
- 3. An overall reduction of total phosphorus from influent to effluent by 75 percent; or
- 4. An overall reduction of annual load of total phosphorus discharged by 75 percent.

In the absence of a department approved alternative implementation date, total phosphorus target reduction levels must be implemented no later than:

- 1. January 1, 2029, for domestic point sources with facility design flows greater than 15 MGD.
- 2. January 1, 2033, for domestic point sources with facility design flows greater than or equal to 1 MGD but less than 15 MGD.
- 3. January 1, 2034, for industrial facilities.

The Water Protection Program thanks its stakeholders for the robust discussion and feedback provided during the development of this rule. If you have questions or would like to discuss, please contact Ashley Grupe, of my team, by email at <u>Ashley Grupe@dnr.mo.gov</u> or by phone at 573-751-1419.

Sincerely,

WATER PROTECTION PROGRAM

John Hoke Director

JH:agt

#### **AGREEMENT FOR CONTRACT OPERATIONS**

#### **OF THE**

#### LAKE OZARK AND OSAGE BEACH WASTEWATER TREATMENT FACILITIES

This AGREEMENT, made and entered into this 1st day of February, 2024 by and between:

The City of Lake Ozark and the City of Osage Beach, fourth-class cities in the Counties of Miller and Camden, State of Missouri, (hereinafter "Cities"), acting through their Joint Sewer Board, (hereinafter "Board") and Alliance Water Resources, Inc., (hereinafter "Alliance") a Missouri corporation with its principal place of business at 206 South Keene St., Columbia, Missouri, agree to the following:

WHEREAS: The Cities own wastewater treatment facilities, (hereinafter "Facilities"); and

WHEREAS: The Board desires to contract with Alliance to provide operation, maintenance and management services for the Facilities, all as more specifically set forth herein below; and

WHEREAS: Alliance desires to provide the services to the Board, subject to the terms and conditions contained herein below; and

WHEREAS: The Board has the authority under the laws of the State of Missouri to enter into a service contract for the operations and maintenance of said Facilities;

NOW THEREFORE, in consideration of the mutual agreements herein contained, and subject to the terms and conditions herein stated, parties hereto agree as follows:

#### I. PURPOSE

The Board agrees to engage Alliance as an independent contractor to operate and maintain the Facilities during the term of this Agreement.

#### II. SCOPE OF SERVICES

**Performance:** Alliance will perform all services necessary for the proper and satisfactory operation and maintenance of the Facilities in full compliance with all legal requirements. Alliance will use accepted operating and maintenance procedures and standard applicable engineering principles during the term of this Agreement. Alliance will keep the Board apprised of changes and proposed changes in Federal, State, and Local laws, rules, and regulations and inform the Board of needed changes to ensure compliance.

Wastewater Treatment Plant: Alliance shall operate, maintain, and manage the Facilities so that the water discharge meets or exceeds the wastewater quality requirements established by all

appropriate federal, state, and local regulatory entities depending only upon the conditions set forth in the Effluent Quality paragraph.

Project Management and Staffing: Alliance shall regularly staff the Facilities with three employees experienced and qualified in management, administrative and technical areas of wastewater treatment, process control and wastewater laboratory analysis. Alliance will provide a certified operator on site with a minimum Missouri Class "A" certification in wastewater. In the event the "A" operator position needs to be replaced, Alliance will provide a satisfactorily licensed operator to satisfy MDNR requirements. Said person shall be on-site a minimum of forty (40) hours per week, during regular business hours, throughout the life of this Agreement, except for excused absence, including training, sick leave, vacation, or other leave periods. Facilities operations staff provided shall have or be working toward the required operator licenses. The Board reserves the right to require the removal by Alliance of any employee the Board believes necessary to protect the interests of the Board. However, such removal shall not violate applicable State and Federal laws or regulations.

**Project Support**: Alliance shall provide on-call backup expertise in process control and management and maintenance applications to ensure compliance with this Agreement. This on-call support will have a 30-minute response time target, not to exceed 60 minutes. This support shall not constitute a claim for additional compensation for Alliance.

**Maintenance Management**: Alliance shall institute a comprehensive preventive maintenance program for all equipment and property assigned to Alliance by the Board through this Agreement. Records maintained by Alliance for the Facilities shall include a history of maintenance for each item of equipment, spare parts inventory, and schedule of programmed maintenance.

**Information Systems**: Alliance will install and update as needed computer software proven to be effective in management of scheduled and preventive maintenance, process control, energy management, and industrial waste monitoring. Alliance will be trained in the use of these computer systems and processes. All records will be available for review by a designated board representative.

**Effluent Quality**: Alliance shall operate and maintain the Facilities in such manner that the effluent quality is always maintained at a level equal to, or better than, the requirements established by the U.S. Environmental Protection Agency (USEPA), and the Missouri Department of Natural Resources (MoDNR). Alliance will guarantee effluent quality up to design flows and loadings. (See Appendix A.) Subject to terms and conditions on Appendix A.

**Fines, Penalties, and Assessments**: Alliance shall be responsible and liable for, and shall indemnify and hold harmless the Board against, penalties or fines without dollar limit which may be imposed by the USEPA, MoDNR, or any other regulatory agency having jurisdiction for any effluent quality violations which result due to problems associated with lack of adequate process control or improper operations of the Facilities resulting from Alliance negligence. Additionally,

Alliance shall pay a penalty to the Board equal to two percent (2%) of the total annual contract amount for each month the Facilities fail to meet the requirements of the NPDES permit. Alliance shall not be liable and shall have no duty to indemnify or hold harmless the Board if it can justify by appropriate documentation and evidence that the effluent quality violations occurred as a result of the causes cited in Appendix A.

Alliance shall also be responsible for fines or penalties without any dollar limit imposed by USEPA, MoDNR, or any other regulatory agency having jurisdiction, for failure to comply with the term and conditions of any duly authorized permit, court order, administrative order, law statute, ordinance, etc., for reasons resulting from Alliance's negligence during the period of this Agreement.

**Corrective Action:** In the event that the effluent quality is not in compliance with the effluent requirements of the NPDES permit, Alliance will submit a report to the Board outlining the proposed corrective action and a schedule thereof.

Should the NPDES permit requirements change during the Agreement period, Alliance shall meet the new requirements, provided the existing equipment and/or process is capable of meeting the new requirements. In the event Alliance questions the ability of the existing equipment and/or process to meet the new requirements, the Board will have a qualified engineering firm certify whether or not the Facilities have adequate capability.

**Sludge Management and Sludge Disposal:** Alliance shall be responsible for handling and disposing of treatment sludge in a manner consistent with existing USEPA and MoDNR - regulations.

Septic Sludge Disposal: Alliance shall allow licensed (Board approved) septic tank hauling contractors to dump septic sludge into the Facilities at the designated area provided all of the following are true: Such wastes are free from organic or inorganic toxic substances (either biologically toxic, or otherwise), which cannot be treated, removed, and reduced to a non-toxic state at the Facilities; such waste do not contain any substances, the discharge of which into the receiving stream would violate any Federal, Interstate, State, or Board rules, requirements, standards, or regulations; and amounts of BOD and suspended solids contained in such waste do not exceed the design loading of the Facilities. All fees applicable to the septic sludge dumping shall be billed and collected by Alliance and transferred to the Board. All septic sludge hauling contractors requesting approval for dumping sludge at the Facilities shall be subject to approval by the Board. Alliance has the right to refuse any septic materials which do not meet Board criteria. A schedule of Septic Sludge Dumping shall be presented to the Board as part of the Annual Budget Process.

Handling and Disposal of Contaminated Sludge: If the influent contains abnormal or biologically toxic substances, the sludge from such influent shall be deemed contaminated. Alliance shall make every effort to isolate such contaminated sludge consistent with current USEPA and MoDNR guidelines. The Board shall reimburse Alliance for overtime and costs directly related to the disposal of the contaminated sludge plus a 10% administrative fee.

If any sludge from the Facilities is classified as hazardous waste as defined by USEPA in the federal regulation, 40 CFR 251 subpart C, which means that the regulatory agencies require the sludge to be transported to a designated hazardous waste landfill, Alliance shall notify the Board and request permission to transport the sludge to a designated landfill. The Board shall reimburse Alliance for the cost of overtime, transport, landfill fees, and any other out-of-pocket costs associated with the handling and disposal of the sludge.

**Testing:** Alliance shall sample and perform the appropriate influent, effluent, stream, and sludge testing as outlined in the Board's wastewater and land application permits. Should the scope or frequency of testing change due to the requirements of these permits, or to any regulatory or administrative action, Alliance's compensation shall be adjusted upward or downward to reflect the change in its costs.

**Laboratory Analysis:** Alliance shall perform the necessary testing and laboratory analysis as required by the Board's current wastewater and land application permits as well as for process control. Alliance shall prepare all state permit monitoring and operation reports and submit them to MoDNR with copies to the Board.

**Reporting:** Alliance shall submit to the Board 6 days prior to regular scheduled Board Meeting, a report showing the results of all testing done on the Facilities, a description of all maintenance activities, and a copy of the operator's log for the previous month. The report shall include all data required by the NPDES permit. Alliance shall include a report of all required daily, weekly, and monthly maintenance, and specify whether or not all maintenance was or was not performed. If maintenance was not performed as required, an explanation must be provided in writing to the Board.

Reports shall include, but not be limited to, the following:

- A report showing all discharge tests and stating whether or not those parameters are being met.
- A monthly flow report showing daily and monthly flows for both cities separately.
- A monthly sludge report showing any test results and areas where sludge has been released, and whether or not the owner of the area has signed a release allowing sludge to be distributed.
- Annual cost of operation report.

**Records of Operation:** Alliance shall maintain necessary and sufficient records of operation and maintenance activities to meet local, state, and federal requirements under the NPDES and land application permits. These records will be the property of the Board. Alliance will maintain these records at the designated office site, available for use by the authorized personnel. Alliance will be responsible for representing the Board with regards to daily operation and maintenance matters and other matters as deemed appropriate by the Board to the relevant regulatory agencies and the Board will be informed of all meetings, hearings, and pertinent information and will be entitled to participate in any of the above.

**Safety:** Alliance shall administer a site-specific safety program to include training record keeping, and safety meetings, all in conformance with the Board safety program, OSHA regulations, and any requirements of the State of Missouri, or any other Federal Agency with jurisdiction.

**Training:** Alliance shall implement an ongoing training program with classroom and hands-on training for all personnel. Training will include, but not be limited to safety, facilities operation, vehicle operations, laboratory operations, and maintenance.

**Alliance's Insurance Requirements:** Alliance shall maintain the following insurance during the term of the Agreement:

Contractor will provide applicable insurance requirements as follows:

Workmen's Compensation -Statutory 100,000/occurrence

Comprehensive General Liability (Bodily) 1,000,000/occurrence Comprehensive General Liability (Property) 1,000,000/occurrence

Comprehensive Auto Liability (Bodily) 1,000,000/occurrence Comprehensive Auto Liability (Property) 1,000,000/occurrence

The above policies will contain a Waiver of Subrogation in favor of the Board

Alliance shall furnish the Board with a Certificate of such insurance, and each policy shall require a 30-day notice of cancellation or material change to be given to the Board while this Agreement is in effect. These policies will be in effect at the time Alliance and the Board execute this Agreement.

**Odor:** Alliance shall operate the Facilities and program to minimize the generation of odors through an ongoing odor control program and deal in a concerned, professional manner with any individuals or community groups concerned with odors.

Capital Budget Submission: Alliance shall be knowledgeable about the Board's capital expenditure program for the Facilities. During the budget process Alliance shall submit a recommendation of capital improvements Alliance believes necessary to upgrade the Facilities covered under this Agreement, however, implementation of these recommendations by the Board is not a condition of Alliance's performance under this Agreement. Annually thereafter, prior to a date selected by the Board, Alliance shall submit its recommendations regarding additions to or deletions from the Board's scheduled program. Alliance will submit a detailed rationale for any changes or additions, and preliminary cost estimates. Review and approval of these capital expenditures shall remain the authority of the Board.

**Inventory:** By February 28<sup>th</sup> of each year during this contract, Alliance shall submit an inventory of the equipment, tools, materials, consumables and expendable supplies, and spare parts at the Facility. At the termination of this Agreement, Alliance shall pay the Board in the event that the inventory of these items is less at the time of termination than the initial inventory. Alliance agrees to maintain an adequate spare part inventory for proper maintenance and repair of the Facilities.

Any purchase of equipment, tools, materials, supplies, spare parts, or capital improvements shall upon the purchase thereof become the sole and absolute property of the Board subject to only the

terms of this Agreement. At the termination of the Agreement, all said items shall be turned over to the Board. Only purchases of items by Alliance which are outside the scope of this Agreement and are not directly or indirectly reimbursed by the Board, shall be titled in and remain the property of Alliance.

Emergency Response Plan: Alliance will develop, maintain, and implement, if necessary, an emergency response plan for the Facilities acceptable to State and Federal regulators. Alliance will submit its proposed plan to the Board for its approval annually by March 1<sup>st</sup>.

#### III. RESPONSIBILITIES OF THE BOARD

In addition to its other obligations under this Agreement, the Board shall provide for Alliance's use, all equipment, structures, and vehicles under its ownership presently assigned to the Facilities (Appendix B) which will be updated by Alliance by February 28<sup>th</sup> each year and made a part of this contract. The Board will be responsible for the cost of replacing these items, presently assigned to the Facilities as listed in Appendix B.

The Board shall maintain all existing licenses, permits, and agreements which have been granted to the Board as owner of the Facilities, and shall procure all other necessary to operate and maintain the Facilities covered by this Agreement.

Capital Expenditures: The Board shall make capital expenditures at the Facilities as deemed necessary by the Board or as otherwise required. Alliance will cooperate with the Board to determine the necessity and cost of capital expenditures.

**Board Insurance:** The Board will maintain the following insurance during the term of this Agreement:

Property Insurance Call risks):

All Facilities, Contents Replacement Value

Equipment & Computers

Commercial General Liability:

Bodily Injury and Property Damage \$1,000,000 Occurrence

\$1,000,000 Aggregate

Personal Injury Liability \$1,000,000

The above policies will contain a Waiver of Subrogation in Favor of Alliance.

Commercial Automobile Liability:

Automobile Liability \$1,000,000 Occurrence Comprehensive and Collision All Vehicles used by

Coverages Alliance

The policy will contain a Waiver of Subrogation in Favor of Alliance. Alliance shall be an additional named insured on all automobile policies.

Umbrella:

Bodily Injury and Property Damage \$1,000,000 per accident

\$1,000,000 Aggregate

#### IV. COMPENSATION

**Expenses:** Alliance shall pay all expenses required for the normal operation and maintenance of the Facilities, including, but not limited to, personnel costs, fuels, chemicals, services, spare parts, material and expendable supplies.

Examples of items not paid for by Alliance include, but are not limited to, the following:

- Change in scope of services.
- Maintenance and Repair Expenditures as defined hereinafter.
- Capital Expenditures
- Any damage which results from an Act of God, the Board, or any third party.
- Utilities (electric, propane, solid waste, and land line telephone)

**Base Compensation:** Starting February 1, 2024, the Board shall pay Alliance, as compensation for the services to be performed as described in this Agreement, the sum of \$30,321.00 per month with adjustments as specified hereinafter. Monthly payments are due each month for which services will be rendered, upon presentation of invoices by Alliance. Late payments shall accrue interest at then current prime rate plus one percent per annum on the unpaid balance.

**Annual CPI Fee Adjustment**: The Base Compensation amount shall be adjusted effective January 1,2025. The adjustment will be based upon the percentage change in the CPI-All Urban Consumers, Midwest- Size Class D, not seasonally adjusted (Series ID: CUURD200SAO) for the period of October 1 through September 30 preceding each adjustment date unless otherwise agreed in writing by the parties. Total Annual Compensation adjustments will be cumulative.

The following is an example of the CPI calculation based on a start date of March 1, 1999.

1. For the months of December, 1998 and December, 1999 the CPI figures are as follows:

2. The monthly compensation is \$10,000 and is adjusted by the following calculations:

$$(105-100) / 100 = 0.05$$
  
 $$10,000 \times 1.05 = $10,500$ 

The new monthly compensation starting in January, 2000 is \$10,500.

3. For the months of December, 1999 and December, 2000, the CPI figures are as follows:

4. The monthly compensation as of January, 2000 is \$10,500 and is adjusted by the following calculations:

$$(110-105)$$
 /  $105 = 0.048$   
 $$10,500 \times 1.048 = $11,004$ 

The new monthly compensation starting in January, 2001 is \$11,004.

The above calculation is an example only and does not predict the actual monthly compensation for future years of this Agreement.

**Annual Maintenance and Repair Cost**: The Board will pay 100% of all maintenance and repair items. Purchasing, bidding and approval of items will follow the Joint Sewer Board Policy and Procedures for Purchasing adopted July 2023.

## V. MISCELLANEOUS

**Term:** Services under this Agreement shall commence on February 1, 2024 and end on December 31, 2025, unless the Agreement is terminated as hereinafter provided, however, since the Board cannot obligate more than one (1) year's budget at a time, this Agreement is terminable each December 31 date (with 150 days written notice) during this term and must be renegotiated annually with written documentation given Alliance by the Board no later than July 31, of each year during this contract. The parties' prior agreement dated December 12, 2018 (expiring December 31, 2024) shall be replaced with this contract.

**Termination:** Either party to this Agreement may terminate this Agreement upon material breach by the other party providing such terminating party first provides written notice of such breach to the other party and assuming that such breach is not corrected within 90 days. Additionally, should Alliance be in default of this Agreement by not using due diligence in operating the Facilities and failing to properly execute all parts of this Agreement, the Board reserves the right to immediately terminate this Agreement upon receipt of Alliance written notice delivered by certified mail to Alliance's home office.

**Bidding:** Board intends to put out for bid the services contemplated by this contract for a new contract to begin January 1, 2026. Alliance will be invited to bid for such services. Board intends to award said contract no later than July 1, 2025; however, Board reserves the right to conduct the bidding process on whatever terms and conditions it deems appropriate.

## Representative:

With the execution of this Agreement, Board and Alliance shall designate with respect to the services to be performed or furnished by Alliance and responsibilities of Board under this Agreement. Such individuals shall have authority to transmit instructions, receive information, and render decisions relative to the contract on behalf of each respective party. Designated Representatives may designate a representative in their place in cases of absence.

Designated Representatives for Board

Title: Public Works Director City of Osage Beach

Phone Number: (573) 302-2020

Address: 5757 Chapel Drive Osage Beach, MO, 65065

Title: Public Works Director City of Lake Ozark

Phone Number: (573) 365-5378 ext 20

Address: 3162 Bagnell Dam Blvd, Lake Ozark, 65049

Designated Representatives for Alliance

President

Phone Number: (573) 874-8080

Address: 206 South Keene Street, Columbia, MO 65201

**Warranties and Guarantees:** Alliance shall assist the Board with enforcement of existing equipment, warranties, and guarantees, and maintain all warranties on any new equipment purchased after the Agreement is executed. The Board shall cooperate with Alliance on any existing guarantees and warranties for the mutual benefit of the Board and Alliance.

**Noncollusion:** Alliance certifies, under the penalties for perjury, by the signature of the duly authorized corporate representative below, that is has neither give nor received anything of value other than the consideration set forth herein, to secure this Agreement with the Cities of Lake Ozark and Osage Beach. It further certifies that Alliance has not promised anything of value to any agent, employee, or officer of the Board nor colluded with them to obtain this Agreement.

**Scheduled Meetings:** Alliance shall meet with the designated Board representative at the Board's convenience, at the Board's scheduled meetings unless otherwise requested or authorized. The purpose of these meetings will be to discuss the

operations at the Facilities with special emphasis placed on items which are to be funded by the Board's maintenance and repair budget or capital expense budget. Alliance's Manager will be required to attend all monthly committee meetings, monthly council meetings, and any other meetings as requested by the designated Board representative.

**Existing Laws:** Alliance shall comply with all applicable local, state, and federal laws, and regulation as they pertain to the Facilities.

**Changes:** In the event that any changes in the scope of the operation of the Facilities shall occur including, but not limited to, changes in governmental regulation or reporting requirements effluent standards, sludge disposal restrictions, or changes in scope of services in Article II of this Agreement, which increase or decrease the cost of operating the Facilities, the parties agree to revise the compensation, retroactive to the date of the change and negotiated by the parties within 90 days.

**Hold Harmless:** Alliance agrees to and shall hold the Board, its elected and appointed officers, and its employees harmless from any liabilities for claims or damages, including attorneys' fees, for person injury or property damage which is caused by or arises from the negligence of Alliance, unless such claims or damages, or fines are caused or contributed to (i) by the failure of the wastewater influent to meet the criteria established in Appendix A, or (ii) by the present of any hazardous toxic or radioactive substance within the wastewater system. The obligation of Alliance to hold the Board harmless is subject to the Limitation of Liability provision of this Agreement.

**Limitation of Liability:** Under no circumstances shall either party be liable to the other party for consequential, incidental, indirect, special, or punitive damages, whether due to delay, breach of contract, tort (including, without limitation, negligence) or any other cause.

Comparative Responsibility: In the event that both Alliance and the Board are found by an independent fact finder to be negligent, and the negligence of both is the proximate cause of such claim for damage, for person injury, or property damage, then in such an event each party shall be responsible for the portion of the liability equal to such party's comparative share of the total negligence.

Waiver: The failure on the part of either party to enforce its rights as to any provision of this Agreement shall not be construed as a waiver of its rights to enforce such provisions in the

future.

**Assignments:** This Agreement shall not be assigned by either party without the prior written consent of the other party.

**Nondiscrimination:** Alliance agrees and shall refrain from unlawful discrimination in employment and undertakes affirmative action to ensure a quality of employment opportunity; shall comply with procedures and requirements of the State Human Rights Department's regulations concerning equal employment opportunity and Affirmative Action; and shall provide such information, with respect to its employees and applicants for employment and assistance as the Department may reasonably request.

**Relationship**: It is understood that the relationship of Alliance to the Board is that of an independent contractor and that none of the employees or agents of Alliance shall be considered employees of the Board.

**Force Majeure**: Each party's performance under this Agreement shall be excused if the party is unable to perform because of actions due to causes beyond its reasonable control, including, but not limited to, Acts of God, the acts of civil or military authority, floods, epidemics, quarantine restrictions, riots, strikes, and commercial impossibility. In the event of any such force majeure, the party unable to perform shall notify the other party as soon as possible and no later than 24 hours of existence of such force majeure and shall be required to resume performance of its obligations under this Agreement upon the termination of the aforementioned force majeure.

**Authority to Contract**: Each party warrant and represent that is has authority to enter this Agreement. The Board warrants, represents, and certifies that is has appropriate funds available for payments to Alliance required by this Agreement. If the Board is unable to provide appropriate funds, Alliance shall have the option of terminating this Agreement.

**Access**: Alliance agrees to allow Board officials access to the Facilities covered by this Agreement at any time as long as an Alliance representative is present; however, Board Representatives will have access to the Facilities at any time with or without Alliance Representatives Present.

**Notices**: Required notices shall be addressed to:

President Alliance Water Resources, Inc. 206 South Keene St. Columbia, MO 65201

Clerk, City of Lake Ozark PO Box 370 Lake Ozark, MO 65049

City Clerk, City of Osage Beach 1000 City Parkway Osage Beach, MO 65065 **Prevailing Wage**: Alliance agrees to pay prevailing wage where applicable, as required by Missouri Law. Alliance shall provide copies of Certified Payrolls when Prevailing Wage is Required. Prevailing Wage as determined by the Federal Wage Determination and/or the Industrial Commission of Missouri, Annual Wage Order shall be determined when the work is to occur, including amendments, will be complied with on this project when required. When requested to perform work requiring the payment of the prevailing wage, Alliance shall first determine the amount of any additional cost to the Board and have the amount approved by the Board prior to beginning work.

## 

My commission expires:

## APPENDIX A: EFFLUENT QUALITY GUARANTEE

#### Wastewater

Alliance will be responsible for meeting the effluent quality requirements of all applicable permits unless one or more of the following occurs.

- The influent to the treatment plant does not contain adequate nutrients to support operation of biological process and/or contains toxic substances which cannot be removed by existing processes and Facilities (see Definition below).
- Toxic discharges into the sewer system in volumes which would make compliance with discharge limits substantially impossible.
- The flow, influent BOD, influent TSS, and/or influent Ammonia is greater than the plant design parameters, which are the following:

Average Flow 3.0 MGD Influent BOD 364 mg/I Influent TSS 364 mg/I

• If the Treatment Plant can operate only at reduced capacity due to construction activities, fire, flood, adverse weather conditions, labor disputes, or other causes beyond Alliance's control.

TOXIC: Any substance or combination of substances contained in the influent to the Facilities in sufficiently high concentrations so as to interfere with the treatment processes necessary for the removal of organic and chemical constituents.

## APPENDIX B: WASTEWATER TREATMENT PLANT AND EQUIPMENT DESCRIPTION

## Wastewater Facilities

3.0 MGD oxidation ditch consisting of degritting, 2 aeration basins with 3 each fixed in place surface aerators, 3 secondary clarifiers, 2 aerated solids holding tanks and aeration building, one 72 bulb Wedeco UV system, and 1 laboratory/office building.

## **Equipment**

1 - 2020 John Deere Z915E ZTrak Stock #324703 ID# ITC915EVELT081845

## Vehicles

- 1 2022 MACK Granite Sludge Truck TMV 3600-gallon tank, VIN# 1M2GR2GC7NM028115
- 1 2018 Ford F-250, VIN# 1FTBF2B66JEC64283
- 1 Mini Pro Tailgate Spreader TRYN SP-575X-1 S/N# 190730300540SP-575X-1
- 1 Knaplied Snow Blade

## The Lake of the Ozark Regional Wastewater Treatment Plant #1

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

## January 2024

## 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: 12/31/14	2015	Initials:	GH
Date: 1/4/16	2016	Initials:	GH
Date: 1/4/17	2017	Initials:	GН
Date: 1/4/18	2018	Initials:	GH
Date: 12/20/18	2019	Initials:	GH
Date: 1/3/20	2020	Initials	GH
Date: 2/12/21	2021	Initials:	GH
Date: 12/14/21	2022	Initials:	GН
Date: 1/13/23	2023	Initials.	GH
Date: 1/10/24	2024	Initials:	GH

# Preliminary Damage Assessment Checklist

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

## Section I

## A. Personnel Inventory, Contact Order & Training

## 1: Personnel Inventory

Name	Title	Office Phone	Home Phone	Mobile Phone
Gary Hutchcraft	Local Manager II	573-365-0455	THE RESIDENCE OF THE PROPERTY	573-216-8398
John Hornback	Supervisor	573-365-0455	573-369-2761	573-480-4065
Michael Ray	Utility Worker I	573-365-0455		573-317-6242
Josh Duncan	Division Manager	573-874-8080		573-216-4506
Mark Mahler	Director of Compliance & Safety	573-874-8080	Ext. 226	573-825-8169
Tony Sneed	AWR Vice President Director of Operations	573-874-8080	Ext. 203	256-278-1264
Tim Geraghty	AWR President	573-874-8080	Ext. 229	314-575-4738

## 2: Contact Order

Contact Order	Corporate Office Contact	Division Contact	Outside Support Contact
1		Gary Hutchcraft John Hornback	
3		Luke Randall	
<b>4</b> 5			Lonnie Madole Kevin Klein
6		T.	Josh Thompson
7	Josh Duncan	·	•
8	Tony Sneed		
9	Tim Geraghty		
Client	Mike Welty		
Contact:	Matt Michalik		

## 3: Annual Staff Training Goals

- CPR First Aid
- Confined Space Entry
  Vehicle Safety Defensive Driving
  Hazard Communication
- Work Area Protection Traffic Around Job Sites
- Lockout Tagout Back Safety/Lifting Methods
- Respiratory Protection Emergency Action and Fire Prevention

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

## B. Facility Emergency Equipment Inventory

- 1. Communications
  - a. Cell Phones

The following Cell numbers have been assigned to staff:

The second secon	CONTRACTOR LINE AND
Gary Hutchcraft	573-216-8398
John Hornback	573-216-3878 (duty phone)
Mike Ray	573-216-3878 (duty phone)

b. Telephones

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

## 2. Safety Equipment

- a. Full body harness (2) (Admin. Bldg.)
- b. Lanyard & spreader bar (Admin. Bidg.)
- 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/ 3600-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
0	Mike Ray	573-365-0455	573-317-6242	
4	John Homback	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	
•	Josh Thompson	573-364-8790	573-308-6229	573-762-9941
*	Josh Duncan	573-874-8080	573-216-4506	
4	Tony Sneed	573-874-8080x302	256-278-1264	
•	Tim Geraghty	573-874-8080x229	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.
  - 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.
- 2. 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.
  - 3. 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.

	lia	CER RIESC	HOT WORK PERMIT/ CHECKLIST
Location	ħ.		Dute: Supervisor:
Work to	be done	e d	
Special I	recaution	ons:	
- The Common of	<u>Major</u> ovinje <sub>rov</sub> a ACC sam		
Time Ste	irted:	P. C. Santan	Time Completed:
Signed:	- The House Hillians Species and the	a de la proposición de la composición dela composición de la composición de la composición dela composición dela composición dela composición de la composición de la composición de la composición dela composición de la composición dela c	Date:
	(Indi	vidual ves	ponsible for Hol Work anthurization.)
Before a that all p	pproval recautle	of the l ns have	ATTENTION  Hot Work Permit, the Supervisor or appointee shall inspect the work area and confirm a been taken to prevent fire.
Ves	No	N/A	Precautions
- in the second			Is all cutting and welding equipment in good repair condition?
·	1	Publishersister wi	Has pre-task Tool Box Talk been administered?
Yes	No	NA	Within 25 Feet of Work
			floor/ ground clear of combustibles if possible?
· · · · · · · · · · · · · · · · · · ·			Combustible floors wet down, covered, or shielded?
to improve and an artist			No combustible material or flammable liquids?
·	Lacramento b	Liver	Combustibles and flammable liquids covered or shielded?
Ves	No	N/A	Work on Enclosed Equipment
The state of the s		1	Equipment cleaned of all combustibles?
			Containers/ drums purged of flammable vapors/ materials?
Yes	No	N/A	Fire Watch
X	T	AND PROPERTY AND PROPERTY AND	To be provided during and 30 minutes after work completion?
X	· ·		Supplied with fire extinguisher and or small charged fire hose?
3		A CONTRACTOR OF THE PERSON OF	Trained in the use of equipment and emergency procedures?
delingstyreign and de		i dina di di	
Yes	No	N/A	Final Check-Up
	يدر بينيين		Completed 30 minutes after work completion?
Supervis	ior Sion	ature:	The second secon
San Mark Street Sections			by individual responsible for Final Check-Up, after its completion.)

## G. Emergency Identification and Analysis

Emergency	Analysis
Severe storms, high wind, lightning, floods.	<ul> <li>Damage can range from low to medium depending on severity of storm.</li> <li>Electrical supply, electrical pathways, exposed equipment and equipment located in underground vaults (when flooding is a concern), are most susceptible to damage.</li> </ul>
Severe cold, ice storms, blizzards.	<ul> <li>Damage can range from low to medium depending on severity of conditions.</li> <li>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.</li> <li>Ice storms and blizzards can cause damage to the electrical supply and also hinder access to the Wastewater Treatment Plant.</li> </ul>
Earthquakes.	<ul> <li>Damage can range from low to high.</li> <li>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.</li> <li>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.</li> </ul>
Sabotage, civil unrest, riots, terrorist attacks.	<ul> <li>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.).</li> <li>Measures to prevent damage from terrorist attacks are detailed in the following section on facilities security.</li> </ul>
Air borne chemicals, water borne chemicals, toxic chemical spills, weapons of mass destruction.	<ul> <li>Damage to bacteria mass in the treatment process, and can also affect health of treatment personnel.</li> <li>Caution should always be taken when confronting a chemical biological emergency.</li> <li>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.</li> </ul>

## 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 oxidation ditches to final clarifiers splitter boxes.	3. Adjustable weir gate valves at basins
4. Gravity to Clariflers.	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 bidg.
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.
   Masks are to be worn indoors when more than one person is on the premises.
   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
  - 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 Bidg, and inform Ameren UE of it. If that is what it is then, it will be an easy fix for them. Never try to attempt to flip fuses back up on your own, Let Ameren UE do it.

#### Process Unit:

## **Head Works**

### Key Components:

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

## **Effects of Damage**

In general-

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

## Response

In general-

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

#### Process Unit:

### Secondary Treatment

Key Components:

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

#### Effects of Damage

in general-

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

#### Response

### In general-

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

#### Process Unit:

## Clarification

## Key Components:

Clarifier splitter box

MCC1 feeds MCC2.

Final clarifiers 1, 2, 3

Control power and control equipment.

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

#### Effects of Damage

### In general-

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

#### Response

#### In general-

- In severe cold, the skimming mechanisms should be modified to minimize potential damage to the skimmer arm/rake mechanism.
- A means of maintaining surface water disturbance (i.e. water sprays) is necessary to keep the surface from forming thick ice.
- Constant attention shall be given to the clarifiers during extreme cold conditions.
- Emergency pumping may be required to remove sludge from the clarifiers. This can be accomplished with the sludge pump truck on a routine interval. Clarifiers 1, and 2, should be placed back into service first.
- Note: Clariffer 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

- 1. 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.
- 2. 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 #6 can be taken out of service to further reduce mixing in the ditch (es), fourth, all aerators can be taken out of service (for short periods of time, i.e. up to 8 hours) to eliminate mixing in the ditch (es). Or a combination of the above measures can be used. The overall goal is to save the mixed liquor suspended solids (mlss) in the ditch from being discharged in the receiving stream. Past high flow events have demonstrated that proper management of flow through the plant can achieve good treatment (within NPDES permit standards). It is also important to note that effluent sampling should be done during high flow events to assure that NPDES permit standards are being met, and that proper documentation in the plant daily bench sheet must be maintained on all process changes to manage high flows. Whenever all the carrousel agrators 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 pinch valve and open them up all the way and if that doesn't calm things down then go down in the RAS basement and clean pumps.

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

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

## Contingency Plan for Toxic Chemical Release

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

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

The second most likely scenario would be notification of a toxic release into the sewer system. This has never happened (at least the notification part) but if this condition should arise then the most likely first response would be to divert all flow to the designated basin. The second step

would be to ascertain what type of toxic chemical it is (ask for MSDS information) and how much of the toxic chemical is in the system. The third step would be notification of City or Cities, Corporate and MODNR. With data available try to estimate when the chemical will arrive at the treatment plant and how long it will take to flush the chemical from the sewer system. This information will determine the length of time all flow will need to be diverted before it is safe to resume normal flow. Again, the availability of taking one basin off line will allow temporary containment (provided dry weather flows) and the ability to further treat the chemical and either release the chemical into the treatment process or allow for its removal and disposal at another location.

## **Contingency Plan for SSO's**

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

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

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

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

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

### **Contingency Plan for Sludge Spills**

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

#### Documentation -

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

## Clean Up -

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

## Appendix 1

## **Local Radio Stations**

Call Letters	Frequency	Location	Phone#	Fax#
KRMS	AM 1150	Osage Beach, Mo	573-302-7000	4
KRMS	FM 93.5	11 16 #	573-348-2779	
KLOZ	FM 92.7	in in in	573-302-1993	
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	
KRCG	CBS 13	Jefferson City, MO	573-896-5144	
KMOU	NBC 8	Columbia, MO	573-882-8888	-

**Local Newspapers** 

Name of Paper	Address	Contact Person	Phone#	Fax#
Lake News Focus	5107 Hwy. 54 Osg Bch		573-348-6050	Canada and Marie of the Canada and Canada an
Lake Sun Leader	450 N. Hwy. 5 Camdenton	Justin	573-346-2132	The state of the s
Eldon Advertiser	415 S, Maple St., Eldon		573-392-5658	A STATE OF THE PERSON OF THE P
Leader-Statesman	104 W. Jasper, Versailles		573-378-5441	100
Westside Star	400 N. Main St., Grvs Mls		573-374-3100	

**Systems Personnel** 

Name	Position	Work Phone#	Mobile Phone#	Home Phone#
Gary Hutchcraft	Local Manager II	573-365-0455	573-216-8398	
John Hornback	Supervisor	573-365-0455	573-480-4065	573-369-2761
Mike Ray	Utility Worker I	573-365-0455	573-889-8960	
Josh Duncan	Division Manager	573-874-8080	573-216-4506	
Mark Mahler	Director of Compliance & Safe	573-874-8080 x226	573-825-8169	
Tony Sneed	AWR Director of Operations	573-874-8080 x203	256-278-1264	

**City Personnel** 

Name	Position	Work Phone#	Mobile Phone#
Jeana Woods	City Admin. Osage Beach	573-302-2000 ext. 1010	573-280-1174
Mike Welty	Acting Public Works Op Manager	573-302-2020 Ext. 2000	573-286-3704
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	отто птобуван VVIIII (VIIII (М. М. Анголого в кажива бай-й <sub>Герв</sub> і димуни подта «МІКСУ СА Мотт потто» у в чествомище
O.B. Police Dept.	The state of the s	573-302-2010	AND THE RESIDENCE OF THE PROPERTY OF THE PROPE

**City Engineer** 

Name	Company	Work Phone#	Mobile Phone#	Fax#
	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** 

		The state of the s	
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	
Miller Co. Sheriff Dept.		573-369-2341 or 911	
L.O. Police Dept.		573-365-5371 or 911	
O.B. Police Dept.	-	573-302-2010 or 911	
Miller County Health Dept.	The state of the s	573-369-2359	
Camden County Health Dept.		573-346-5479	

## **Local Ambulance Service**

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

System Maps/Drawings

-					
	Name	Position	Work Phone#	Mobile Phone#	Home Phone#
	Gary Hutchcraft	Local Manager	573-365-0455	573-216-8398	The second se
ĺ	Mike Welty	Osage Beach	573-302-2020	573-286-3704	A STATE OF THE STA
	Matt Michalik	Dir. P/W Lake Ozark	573-365-5378	573-216-6063	

Local Utilities/Services/Suppliers

			A Particular Communication of the Communication of	
Service	Contact	Company	Phone#	Mobile Phone
Phone	Bruce	AT&T	800-286-8313	573-286-0954
Electric	Brent	Ameren UE	800-552-7583	573-694-5914
Propane	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			
Laboratory	Ann Wagner	Pace Labs	913-563-1406	A STATE OF THE STA
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	573-348-3733	The state of the s
Truck Repair	Tom Irwin	Irwin Diesel Repair	573-286-2585	573-286-2585
Heat A/C		Controlled Heating & Air	573-348-5455	* \$ \frac{1}{2} \f
Heat A/C & KVAR	[Periodical Control of	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	Ben	JCI/ MEMC	573-636-7061	573-694-9555
Clarifiers	Field Service	Eimco	801-526-2000	
Pumps / Motors,	Bruce	S & S Electric	573-581-7667	A A A TO A CONTROL OF THE SAME AND A CONTROL
Aerator Gear Boxes		·		<u> </u>
Backhoe / Dirt	Steve Butler	Drain Masters, LLC		573-216-1169
Work				
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	111, 000 0100
Truck Tires	Steve	Purcell Tire	573-348-4010	417-861-1955
Truck Tires	Kevin	McKnight Tire	573-635-0101	573-338-3350
Truck Tires	Correy	Clark Tire	573-374-8854	573-434-4539
Piping Supplies	Justin	Core & Main	573-348-1273	
Welding Service	Gary Koerber	GL Welding		573-680-3957
Welding Service	Eric	PME		573-680-6434

# **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	Kills and the second se	573-348-3250
A-B Rental	All Types	Camdenton, MO	The state of the s	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	1945 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 1946 - 19
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	A COMMITTED TO THE PARTY OF THE
FBI	AN AND AND AND AND AND AND AND AND AND A	1-800-CALLFBI	

## Appendix 2

## Chemical List / Facility Map

#### Chemicals:

### Lab Office Building

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

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

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

## Sludge Digester Blower Building

· Hydrated bag Lime, 50lb bags

## Headwork's Bldg. Storage Room

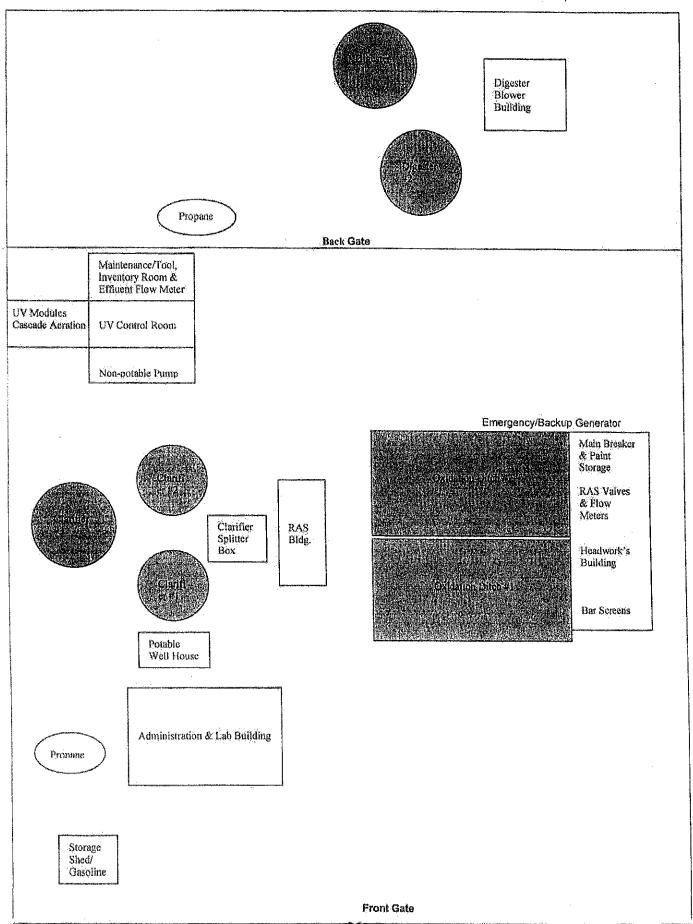
- Chevron Tube Grease
- Mystic tube Grease
- Hydraulic fluid
- Assorted cans spray paint
- · Assorted cans building and grounds paint.
- Paint thinner / solvents

## Storage Shed by Admin. Bldg.

- Gasoline
- Weed eater oil

There are two 500-gallon liquid propane tanks located on the property; one is north of UV building and one west of Admin. Bldg. There is a 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 Clariflers**

Check operation of clariflers for rotation, motor vibration, noise, and heat. Check quality of effluent discharging over the weirs. Record sludge depth, wash soum collection troughs if necessary. Exercise #1 & #2 soum troughs down if they look like they haven't been working on auto. Go to control panel on clarifler and turn soum trough switch to manual, after exercising turn back to auto. Weekly checks on the clariflers 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.

Date:	Start	Time;	Time V	alid to:	(End of	Shift)
Purpose of Entry Customer Name	/: & Location:	a: ∐Sewer Gas				
GENERAL PRE	PARATIONS	CHECKLIST: (		ns That Apply) ED COMPLETE		
GFCI for All Energy Sou Air Mover/V Other Appli Attendant H Safety Light Rescue Equ Safety Harr Respiratory Additional F Confined S Rescue Te Special Rescue Te Special Rescue Te Entrant-Attenda	las Radio or Filing Jipment Set Liness with Retriction PE Required Air Monitor page Sign Visiam On-Site quirements (L	ulpment Fegged/Tried vided (Hot Work, etc.) Phone Ip at Site leval Line	(Icable) Ve	orbal (⊡Visua) Si Make/Model/Se		
Initials	Time	Acceptable Levels →	Oxygen 19,5-23,5%	Combuelible Gases -≺10% LEL	Carbon Monoxide <25 ppm	Hydrogen Sulfide ≪10 ppm
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15 PM

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Rescue Team Sta	atus: 🔲 Res	cue Team Notifie	od 🔼	Team Needec	at Space	* 1
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Entry Supervisor		Date			Time	
Rescue & Emerge Plant Emergency of Nearest Phone:	<b>#:</b>					
Other Means of So AUTHORIZED EN						
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						i nate
ENTRY SUPERV		jnaujrė/s/(	l Ww.Depart	ment s	a autoria Time	

# 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.

	ing the second s	Salah Marin Salah Salah
WATER RESOURCES!	LOCKOUT/TAGOUT I	PERMIT
Date:Start Time:start	Time Valid to:(End	of Shim)
Equipment to be Isolated:  Purpose of Isolation: LOTO procedure used:	/Exact Location:	(A) (A) (A) (A) (A) (A) (A) (A) (A) (A) (A)
GENERAL PREPARATIONS CHECKLIST: (Checked)  Alliance Leckout/ Tagout Devices Applied Temporary Lines/Hoses Removed/ Isolated Energy Sources Locked/Tagged/Tried Notification of Affected Employees Other Applicable Permits (Hor Work, etc.) Additional PPE Required Lockout/ Tagout Devices Visible Special Regulrements (List in Comments)  Comments:	Ck All Items That Apply)  VERIFIED COMPLETE INITIA	
ISOLATION AUTHORIZATION: Supervisor Signatu	ife Customer Health & Safe (If Applicable)	sty Representativ
AUTHORIZED EMPLOYEES: Name (Print) As 2 Avr. A.	A STATE OF THE STA	<u>Kanganan a</u>
		10 (10 (10 (10 (10 (10 (10 (10 (10 (10 (
Return Expired Peri	mit to Safety Coordinator	

VERSION 1.0 APRIL 2007

# Appendix 7

# ReCAP DEVIATION NOTIFICATION FORM

Date of Incident:	Time:		Division:	
Location of deviation:		an to N. T. D. T. Philipping and C. C. Lieber of Assertance and As		A STATE OF THE STA
Type of deviation: W. Note: Double-cl	Treatment  □Distributio	on  W.W. Tre	atment  □Co	llections
Description of deviation:	☐SSO ☐Bypass ☐F	Pressure Loss	☐Sample Ar	nalysis
SAMPLE TYPE I	k LIMIT		SAMPLE RESULT	
How did we become awa	re of the issue:			
Possible reason(s) for o	event(s) leading to d	leviation:		
immediate corrective act	ions taken:			
Further action planned t	o eliminate or reduce	future incide	nts:	
Other information or atta	ichments:			
Completed by:	Title:		,	tate teported:
<u>Who was notified?</u> Name Comments	Title	Date	Time	
	Processing Asymptotic Management of the Control of		- Charles and Charles and Workship and Works	
				The state of the s

Completed form is to be <u>filled out electronically and e-mailed</u> with any other documentation through the Deviation Notification ReCAP mailbox no later than the next business day of the incident.

# REPORT OF SANITARY SEWER OVERFLOW (SSO) OR WASTEWATER TREATMENT PLANT BYPASS

PERMITTEE(MUNICIPALITY/D	ISTRICT & PLANT):	PERMIT NUMBER:
COUNTY:	PHONE NU	MBER:
	The state of the s	Commence of the Commence of th
a. Street Address/Landmark/Cr		
b. Complaint Name & Telephon	and the second s	P
c. Start Date & Time d. Total Time:	The state of the s	End Date & Time: Volume (Gallons):
e. Categories of SSO		volume (Gallotts):
<b>∐</b> Vandalism	☐Power Outage	☐Broken Sewer
☐Inflow & Infiltration	☐Plugged Sewer	☐Equipment Failure
Rain Inches	Manhole location #	
Other  f. Categories of STP Bypass		
i. Categories of o ir bypass		
☐Head Works	☐Aeration/Biological Trea	tment Digester
☐Primary Basins	☐Clarifiers	Solids Handling/Dryling Beds
☐Other		
	Raw (Dry weather SSO or Influen	
	Partially Treated Bypass or Wet v	reather SSO) Was sampling performed?
Type of Samples Taken:	BOD TSS Fecal Am	monia DO Other
a. Name of Receiving Stream:     b. Discharge Course		Length Affected:
u. Discharge Course		
☐ Runs on ground and abs	orbs into the soil.	
Ditch. Name of surface w	Same and the second sec	
	urface water it drains to:	
	harge:	
Other, describe:		
Contract to the second of the second contract to the second of the secon	Allower and Call of probabilities and the control of the Call of t	Other:
		/Bypass and any follow up actions;
D. Describe detailed actions to	Meth to contest a gean up the co-	waypaga any ronow op accessa
grand grand grand grand grand grand grand grand area to be some sound to be so		
CLEAN UP PREFORMED BY		
	CHARLES TO THE STATE OF THE STA	
NAME (PRINTED):	and the Born control of California of the California of Ca	TITLE:
PATA A A PATE STATE WAS	T. Li Salaki (Kizisi) Prinsi Sakhin camilan Sangayay ya fan da an Sangay ay ay da shini mada da da da ay ay ay	KÉA TYE.
SIGNATURE:		PRATE:

Item No	TOOLS . Quantity & Item	Purchased In 2023
1	1 - Craftsman 3 drawer tool box	
2	1 - Craftsman 5 drawer tool box	
3	1 - Assortment SAE Allen wrenches	
4	I - 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 nufdrivers 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	
14	1 - 1/4" deep socket set 3/16 - 1/2	**************************************
15	1 - 1/4" shallow socket set 4mm - 13mm	
1.6	1 - 1/4" shallow socket set 5/32 -1/2 w/ 2 & 3" extensions	MATERIAL PROPERTY OF THE PROPE
17	1 - 1/4"Ratchet	
1.8	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	na mban sida ayan a ga jang ang ang ang ang ang ang ang ang ang
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.	ALL COLUMN TO THE PARTY OF THE
24	1 - 3/8" Ratchet	мания стариция <del>матер</del> эпсерсиния воденности из предоставания в предоставания в предоставания в предоставания в п
25	4 - 3/8" 6 point sockets 1/4 - 7/16	
-26	2 - 3/8" spark plug sockets 5/8 & 13/16	CONTROL OF THE STREET AND THE STREET
27	2 - 1/2" Ratchets & 1 set 1/2" extensions 2, 3 & 6"	
28	1 - 1/2" deep socket set 3/8 - 13/16	The second secon
29	1 - 1/2" socket shallow socket set 9mm - 21mm	
30	I - 1/2" socket shallow socket set 7/16 - 1 1/4	de transferrite i Serrit komunista klassika prikla jamos i modela klassan oda odnikla je dreti posenia. A 12. god (2
3-1	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	The state of the s
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, 1 blue handle & 1 black	
42	2 - pair electrical channel lock pliers, 6 & 10"	Marie Mallergrege a Process (Marie Marie Mari
43	1 - set of left handed drill bits	

Item No.	Quantity & Item	Purchased In 2023
44	6 - electrical screwdrivers, 3 straight & 3 philips head	
45	2 - wire stripers	**************************************
46	1 - pair lineman pliers	
47	1 - pair needle nose pliers	
48	1 - pair side cutters, 6"	
49	3 - 10" Vise grip pliers, 2 curved jaw & 1 straight	
50	2 - 6" Vise grip pliers, 1 curved & 1 needle jaw	A STATE OF THE STA
51	I - yellow handle tin snips	**************************************
52	1 - 12" crescent wrench, Craftsman	
53	3 - pipe wrenches, 18", 24", & 36"	
54	1 ~ 10" Stanley level	MANAGEM CONTRACTOR CON
55	1 - 24" Craftsman level	
56	2 - 25' Task Force tape measures	
57	2 - 6" pocket metal rules	
58	1 - points file	
59	1 - file assortment	
60	1 - rasp file	***************************************
61	2 - Concrete trowel	**************************************
62	1 - feeler gauge	·
63	1 - tool bag	Mile III et a
64	1 - ice pick	**************************************
65	1 - punch & chisel set	Marin Ingelia Company
66	1 - 2" C clamp & 2 - 4" C clamps	
67	2 - putty knivės	
68	1 - parts brush	· · · · · · · · · · · · · · · · · · ·
69	1 - ball peen hammer	
70	1 - 4lb shop hammer	
71	1 - claw hammer	A STATE OF THE STA
72	1 - 10 lb sledge hammer	
73	1 - rubber mallet	
74	1 - hacksaw	The second secon
75	3 - wire brushes	
76	1 - tire gauge	
77	1 - 6" square	Approximation of the second se
78	2 - rag pullers	
79	1 - crow bar	
80	11 - garden rake	**************************************
81	1 - round point shovel	
82	i - flat shovel	
-83	1 - 10lb straight bar	Nicolarus (m. 1925) (1920) (1920) (1920) (1920) (1920) (1920) (1920) (1920) (1920) (1920) (1920) (1920) (1920)
84	1 - pick	
85	1 - pick 1 - anti freeze tester	
86	1 - flat bar	

TOOLS. Purchased In Item No. Quantity & Item 2023 1 - Craftsman 28 pc. tap & die set 87 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 cuttor 97 1 - 1/2" Electric Impact Wrench 98 1 - Sandblaster w/ 24ft of hose & 2 bags of blasting material 1 - Hitachi hammer drill\* 99 SLUDGE TRUCK TOOLS 100 1 - grease gun 101 1 - 20 piece Stanley SAB Comb. end wrenches 1/4 - 7/8 1 - Set Comb. End wrenches 8mm - 18mm 102 103 1 - Rubber maid tool bag 104 4 - Stanley flathead screwdrivers 105 2 - Stanley phillips screwdrivers AC Delco T20x4" star screwdriver 106 107 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 25' task force tape measure 111 112 7 WR vise grip 113 10 WR vise grip Stanley lineman pliers 84-113 114 115 Stanley wire cutters 84-060 116 Stanley crescent wrench 85-763 1 - Set of wheel chocks 117 118 1 - log chain 119 1 - air hose 120 1 - assortment Buse fuses MISCELLANEOUS EQUIPMENT I - Hobart Stickmate 160i Stick Welder 121. 1 - Ryobi 18 volt Drill, Circular Saw, Recip saw, Flashlight, Vacuum Combo Kit w/2 batteries 122 123 1 - Millermatic Wire feed welder w/helmet & gloves 124 1 - 10-3 50ft & 1 - 10-3 100ft Extension cord 125 4 - metal lockers in men's restroom 2 - metal lockers in women's restroom 126 1 - plastic mop bucket w/wringer 127 128 1 - Gorilla ladder MPX-22

Item No.	MISCELLANEOUS EQUIPMENT Quantity & Item	Purchased In 2023
129	1 - 4' step ladder, fiberglass	
130	1 - 6' step ladder, fiberglass	
131	10° stepladder, wood	
132	24' 300 lb rated extension ladder, aluminum	
133	24' 300 lb. rated extension ladder, fiberglass	
134	2 - set of plastic saw horses	
135	1 - 6"x 10' suction hoses	
136	2 - 6" x 25' suction hose	Marie Control of the State of t
137	1 - 4" x 60' suction hose	
138	1 - 4" x 15' discharge hose @ septic unloading station	
139	1 - Schumacher battery charger model SE-82-6	A STATE OF THE PARTY OF THE PAR
140	1 - DieHard 12 volt automatic battery charger/engine starter model 28.71331	
141	1 - 100' extension cord	
142	1 - 50' extension cord	
143	1 - 1 gallon plastic gas cans	
144	2 - 5 gallon steel safety gas cans	
145	1 - misc. log chains, headwork's tool room	
146	3 - 50'x1 1/2" fire hoses with 2 nozzles	
147	5 - Garden hoses	
148	1 - mechanic creeper	
149	I - Craftsman gas leaf blower	
150	1 - Craftsman 4 cycle weed eater	
151	1 - cherry picker (engine hoist)	
152	1 - 9 gallon portable air tank	
153	1 - Campbell Hausfield 26 gallon air compressor	W10.0
154	l - CH air drill	
155	1 - CH air ratchet	
156	1 - CH air grinder	
157	I - CH air impact wrench	
158	1 - CH air chisel w/4 chisels	
159	1 - air tire inflator	
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 gum	
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	

	MISCELLANEOUS EQUIPMENT	Purchased In
Item No.	Quantity & Item	2023
172	1 - 3/8 hammer drill	200 (100 (100 (100 (100 (100 (100 (100 (
173	1 - Skil 14.4 drill kit, w/ battery & charger	
174	1 - Black & Decker bench grinder	
175	1 - Black & Decker hand grinder, 4-1/2"	
176	1 - 115V 3/8 VSR Drill/ Driver	A COMMENT OF THE PARTY OF THE P
177	1 - propane torch, elec. Start	
178	I - strap 1 ton come along	The state of the s
179	2 - chain come alongs, 1 ton & 3 ton	
180	1 - cable come along, 1 ton	
181	1 - 2 ton floor jack	HILLIAN SAN THE SAN TH
182	1 - 12 ton high lift jack	
183	2 - yellow air hoses	
184	1 - 100gal. Portable Diesel fuel tank	MACCON AND AND AND AND AND AND AND AND AND AN
185	1 - Fluke T5-1000 Volt/Amp meter	CHILDREN CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CO
186	3 - 2 wheel wheel-barrows, 2 are being used for bar sreen tubs	A - A - A - A - A - A - A - A - A - A -
187	1 - garden cart	
188	1 - Garden power 65ft, 5/8" Auto-Retractable Garden Hose reel	ani, ana alimina a mana ani a man
189	1 - portable hand work light	MHITELE AND
190	1 - portable work light stand w/ dual mounted lights	
191	3 - Strong Arm electric winches for clarifier skimmer baskets	HOW THE RESERVE AND A SECOND S
192	1 - Strongway electric hoist for lift station pumps	1
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	Superior statement of the statement of t
196	1 - Warn 120 volt Winch/Hoist for pulling UV channel basket	
197	1 - Chapin Homepro backpack sprayer	
	OFFICE INVENTORY	
198	1 - wooden desk	
199	l - metal desk	
200	4 - Office chairs	
201	3 - file cabinets, 1 - 4 drawer & 2 - 2 drawer	- Ammunitari - 1455 - Cammunitari
202	I - 3 shelf bookshelf	
203	1 - PC, w, speaker in monitor, keyboard, and surge arrestDELL	
204	1 - MFC-L2685DW Brother copier / printer	
205	1 - conference table	
206	27 - folding steel chairs	
207	1 - Samsung Mobile phone w/ AT&T service	1
208	1 - Fellowes paper shredder	
209	1 - Bissell vacuum cleaner	
210	1 - Emerson TV / VCR Combo (for training)	
211	1 - Emerson microwave	
212	1 - Magic chef refrigerator	
213	1 - Culligan water cooler	

Item No	CONSUMABLE MATERIALS  Quantity & Item	Purchased In 2023
214	2 - 500 Gallon propane tanks, w/ 535 gallons as of 1/10/24	917 gal.
215	1 - 700 Gallon diesel fuel tank in Generator, w/ 550 gallons as of 1/10/24	350 gal.
ALL 2.	1 100 Carlott Grown Laws the Constitution, 111 250 Editions as Of 1/10/24	330 gar.
	VEHICLE'S	MANAN MINIMINIAN AND THE PROPERTY WAS ARRESTED AND AND AND AND AND AND AND AND AND AN
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	
Tanana Mari	LABORATORY EQUIPMENT	
Item No	The state of the s	
220	I - OHAUS adventurer analytical balance	
221	1 - Orion & 1 no name brand bench top electrode arms	
222	1 - USA Bluebook electric stirrer	
223	3 - Isco Auto samplers, 1 - NI-CAD batteries, 1 small & 1 larger charger	***************************************
224	1 - Isco Auto sampler pump	
225	1 - Hach Sension+ MM340 Ammonia meter & probe	
226	1 - Hach HQ411D pH/mv meter & probe with stand	
227	1 - Allied stirrer and hot plate	
228	1 - Vector spotlight, for discharging Isco batteries	
229	2 - VWR ASTM certified / calibrated thermometers	
230 231	2 - Nalgene desiccators	
	1 - muffle furnace-Therolyne	Mark Water Comment Continued to the Continued
232	1 - vacuum pump-Pisher	
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 1 - BOD Incubator- Revco	
237		CHANGE MATTER AND A STREET
238	1 - microscope-Micromaster	
239	1 - Lab refrigerator-Criterion	RININGS
240	2 - timers-West Bend	
241	1 - Hanna portable pH meter	ariin aan oo
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	I - Thermo Hot plate for distillation	
246	1 - Igloo Ice Maker for Samplers	
247	2 - Frigidaire Ice Maker for Samplers	

Itam Na	SAFETY EQUIPMENT Quantity & Item	Purchased In
248	10 - Safety Glasses / Gogeles	2023
249	2 - Face Shield	
250	2 - UV Face shields	
251	4 - Rubber Gloves	
252	100 - Disposable Face mask	
253	150 - Disposable Pace mask  150 - Disposable Nitrile/Rubber Gloves	
254	185 - pair disposable ear plugs	200
255 255	2 - Ear Protection muffs	
256 256	1 - Eye Wash Stations	· ·
257	2 - Back Supports	
258		
259	1 - Gas Detector / Monitor, portable RKI GX-3R with (Bump/Calibration kit)	
	1 - Lock Out/Tagout Station	
260	2 - Full Body Harness	
261	1 - Lanyards & 1 spreader bar	
262	1 - Tripod, Winch and air machine	
263	3 - First Ald Kits	
264	6 - Fire Extinguishers, Plant	
265	1 - Fire Extinguishers, Office	
266	3 - Fire Extinguishers, Vehicles	
	SPARE EQUIPMENT & PARTS	
267	4 - electrical contact relay	
268	1 - 3 phase monitors	M (1.00 M)
269	3 - Allen Bradley PLC I/O Boards for UV control panel	
270	26 - UV bulbs	XI (Intelligence of the control of t
271	42 - UV quartz sleeve	
272	3 - UV ballast	
273	2 - UV air cylinder rebuild kit & 2 outer bands	
274	7 - New UV air cylinder	,
275	1 - UV air cylinder hose, approx. 20 ft.	
276	10 - Wiper Rings	144
277	2 - UV bulb cord w/2 bulb sockets	A STATE OF THE STA
278	1 - Blue Poly tubing for outdoor UV panel 5ft 6mm & 5ft 10mm	10 ft
279	2 - UV sensor brushes	And the second s
280	1 - blower for digesters	A
281	1 - Carboy for BOD water	
282	6 - Fluorescent bulb ballast & 7 - T-8 bulbs	
283	1 - quantity of assorted 34, & 1" PVC pipe fittings	
284	1 - quantity of assorted nuts & bolts	
285	1 - Transtector ACP-100 surge suppréssor	
286	1 - Transfector PDS 1 tube surge protector	THE RESERVE OF THE PROPERTY OF
287	1 - Alternating relay for lift stations	
288	9 - Ice cube relays for UV system	
289	3 - Thermal overloads for agrator MDP	