

## AGENDA

### KANKAKEE RIVER METROPOLITAN AGENCY MEETING

Thursday, January 25, 2024

9:00 AM in KRMA Board Room

1600 Brookmont Blvd., Kankakee, IL 60901

- I. **Roll Call**
- II. **Public Comment**
- III. **Approval of Board Minutes**
  - A. December 21, 2023 – Regular Board Meeting
- IV. **Reports**
  - A. Operations & Maintenance Report
    1. Monthly Report (MOR)
  - B. Executive Director Report
    1. Water, Gas & Electric Use/Cost
    2. Hauled in Waste Summary
    3. Operations Report
  - C. Financial Report
    1. Reports
    2. Hauled in Waste Report
    3. Flows Graphs
  - D. Communications
- V. **Old Business**
  - A. Bradley Property Update
    1. Timeline for Sale of Bradley Property
  - B. Discuss of Potential Expansion Options
  - C. Approval of Strand Associates Fee Proposal for Design Engineering for Phase 1, Phase 2, and Phase 3
- VI. **New Business**
  - A. Recommendation of RFPs for 401(k) for KRMA Employees'
- VII. **Executive Session**
  - A. Personnel & Probable or Imminent Litigation
- VIII. **Next Meeting**

**Thursday, February 22, 2024 (9:00 AM in KRMA Boardroom)**

**KANKAKEE RIVER METROPOLITAN AGENCY**  
**MINUTES**  
**December 21, 2023 – 9:00 A.M**  
**1600 W Brookmont Blvd.**

In attendance:

**Board of Directors:**

Mayor Christopher Curtis, City of Kankakee  
Mayor Paul Schore, Village of Bourbonnais  
Alderman Danita Swanson, City of Kankakee  
Steven Hunter, Representative, City of Kankakee  
Alderman David Crawford, City of Kankakee

**Administration:**

Dave Tyson, KRMA Executive Director  
Karen Benson, Smith, Koelling, Dykstra & Ohm, P.C

**Attorney:**

Neal Smith, Robbins Schwartz

**KRMA Staff:**

Arthur Strother, Superintendent

**Other:**

Dan Small, Strand Associates  
Tara Latz, Alternate, Village of Bourbonnais  
Terry Memenga, Alternate, Village of Bourbonnais  
Zachary Newton, Utility Superintendent, City of Kankakee

Chairman, Mayor Curtis called the meeting to order.

I. **Roll Call**

Roll Call was taken. All Board members were present, except for Dir Brian Stump, Dir Robert Romo absent.

II. **Public Comment**

None

III. **Approval of Board Minutes October 26, 2023 – Regular Board Meeting**

Motion to approve the November 16, 2023, Regular Board Meeting minutes was made by: Dir Hunter and seconded by Vice Chairman Schore. All board members present voted in favor of Dir Brian Stump and Dir Robert Romo absent. Motion Carried.

IV. **Reports**

A. **Operations & Maintenance Report**

**Monthly Report**

Chairman Christopher Curtis made an announcement, informing the Board Members that Zachary Newton has been appointed the Superintendent of the Environmental Services Utility of the City of Kankakee. Art presented the MOR. Art stated the plant is running well. He stated microorganisms tend to not work as well once the temperature gets below 50 degrees, therefore we had to increase the microorganisms. Dir Swanson asked if the winter season the reason Total Suspend Solid (TSS) is in the red. Art replied, yes, TSS will tend to rise within the winter months, however we are not in any violation. There are also some equipment issues that will need to be addressed. Also, I have been informed by our Insurance Agent, Pat Gilmore, that Cyber Security and Infrastructure is being pushed for water and wastewater safety. Chairman Curtis offered his IT support to getting this setup.

B. **Executive Director Report**

I. **Water, Gas & Electric Use/Cost**

Exec. Dir. Dave Tyson presented the yearly utility usage. Exec Dir Tyson stated everything seems normal.

2. Hauled In Waste Summary

Exec. Dir. Tyson stated there was an increase in hauled in waste this month due to the increase in Prairie View and Liberty loadings, however, it is still less than half the amount we used to take in when we were accepting Newton County loads. We have reached out to Newton County; however, we received no response. Dir Osenga asked how to that decrease reflects in dollar numbers. Karen gave an explanation on how the decrease would reflect within the budget.

3. Operations Report

Exec Dir Dave Tyson informed the Board Members that the NARP Study we participated in came out good, KRMA is not discharging anything we should not, the river nutrients and total phosphate is not affecting the aquatic life. Based off the levels the IEPA is requiring our study shows we are below those levels.

C. Financial Report

1. Reports

Karen presented the financial statements, stating the balance sheet shows cash is still strong. According to the Statement of Revenue/Expenses, hauled in waste is below monthly budget and the electric bill is running higher than usual. Also, the Change in Net Position is over the budget amount. Our interest income is higher than the budget. YTD we are still above our yearly budget amount.

2. Hauled In Waste Report

None

3. Flows Graphs

Karen presented the flows report. Stated we are seven months through, and Kankakee flows are coming in at 62% for an average flow and we budgeted it 64%. Keep a watch on the flows so you can see how each municipality is playing against the estimated percentage of flows.

D. Communications

Exec Dir Tyson informed the board that we received communication through Homeland Security for Governmental Entity, it is voluntary to participate in it at no cost. The board member decided to wait until it is mandatory.

V. Old Business

A. Bradley Property

Chairman Curtis stated talked with Mayor Watson, and Mayor Watson would like to meet after the first of the year.

1. Timeline for Sale of Bradley Property

None

B. Review and Discussion of RFPs for 401(k) for KRMA Employees

Exec Dir Tyson informed the board that we are waiting on the Union Employees. There have been meetings with three of the four RFP's participants. There will be a recommendation by next month.

C. Discussion of Potential Expansion Options

Exec Dir Tyson expressed his concern regarding the expansion, stating it has been six years since the expansion has been up for discussion and now equipment is also six years older within its lifeline and we really needed some capital improvements. We need to make some decisions because we cannot get funding and/or apply for grants without a design.

Dan Small with Strand Associates gave a presentation on the Potential Expansion Options and Capital Needs. There were questions about the age and lifespan of the current equipment. Dan stated that the current Project Plan will be split into two Phases 1A and 1B. Dan went on to state that each Phase will have a different loan number for flexibility of design which include Bradley Property or exclude Bradley Property without having to wait six months to another year for approval. Chairman Curtis asked, if we make DOW and Kensing pretreat, will there still be a need for the expansion? Dan Small stated yes. Dan informed the board member that IEPA is going to require within the next permit to start monitoring PFAS, per- and polyfluoroalkyl substance in water source as well. Which is a new process, therefore the fourth aeration train will be needed. There were open discussions and opinions on how to approach and the possibilities of options regarding the potential expansion and capital needs. Karen also added some financial facts regarding the cost of the potential expansion and capital needs. Chairman Curtis schedule a Special Meeting to discuss the Potential Expansion and Capital Needs options for Friday, January 12, 2024, at 3pm.

VI. **New Business**

A. **Local #399 Union Health & Welfare Increase Effective for December 1, 2023**

Exec Dir Tyson informed the KRMA Board that the Local #399 Union Health & Welfare increased their rates effective for December 1, 2023.

B. **Motion to accept Service Agreement Plan for Northwest Consultants, Inc – Increase Fee Schedule**

Chairman Curtis informed the KRMA Board that he received an email from Northwest Consultant regarding the Increase Fee Schedule. Motion to approve the Service Agreement Plan for Northwest Consultants, Inc- Increase Fee Schedule was made by Dir Swanson and seconded by Dir Osenga. All board members present voted in favor of Dir Brian Stump and Dir Robert Romo absent. Motion Carried.

C. **Discussion of Capital Needs**

Exec Dir Tyson explained that we are having control problems in building #55, however the need is not urgent or affecting the plant to operate properly. Exec Dir Tyson also mentions our rates for flow are less than other surrounding areas. The reason we were able to keep our rates for flow lower was because of the revenue we were getting for hauled in waste. However, since our revenue from hauled in waste has decreased, we might have to look into raising our rate for flows. The need to build reserves is necessary, for capital improvements.

VII. **Executive Session**

A. **Personnel & Probable or Imminent Litigation**

Motion to go into Executive Session to discuss Personnel, 5 ILCS 120/2(c)(1) of the open meetings act, was made by: Dir. Hunter and seconded by: Vice Chairman Schore. Motion carried.

Roll call was taken, and all Board members were present, except for Dir Brian Stump, Dir Robert Romo absent.

The Board went into Executive Session.

Motion to exit Executive Session was made by Dir. Hunter and seconded by Dir Osenga. Motion carried.

Motion to return to Open Session was made by Vice Chairman Schore and seconded by Dir Hunter. Motion carried.

With the Board back in open session there was no action taken.

VIII. **Next Meeting**

Next Regular Board Meeting- **Thursday, January 25, 2024 (9:00 A.M. at KRMA Board Room)**

Motion to Adjourn was made by: Vice Chairman Schore and seconded by Dir Osenga. Motion Carried.



*Providing Wastewater Treatment to the Kankakee River Valley*



## Monthly Operations Report

December 2023

**KRMA’S DECEMBER HIGHLIGHTS:**

Testing of the KRMA effluent and the receiving water were performed for Whole Effluent Toxicity (WET) reporting. Samples taken by KRMA employee and test results performed by North Shore Reclamation District. The results were sent to IEPA. O&M specialists prepared the plant for winter operation.

Training for all employees regarding Blind Spots: an Introduction to Unconscious Biases was given on December 12, 2023. Instructor Mark Sanders, DEI Specialist, that was referred by the Office of Continuing Education and Business Partnerships at Kankakee Community College.

The management team continue to work with Strand Engineering on the needs of the facility in regard to equipment and processes.

The month of December, the Agency had violation of the NPDES (National Pollutant Discharge Elimination System) permits.

**1.0 WASTEWATER TREATMENT FACILITY OPERATION**

**Attachment A** Details the monthly operational information for the facility.

**2.0 INFLUENT FLOW**

**Table 2.1** Summarizes total flow and average daily flow to the facility from each municipality.

**Attachment B** for details of daily flow rates.

**Table 2.1**  
*Plant Flows*

Municipality	Plant Influent	Kankakee	Bourbonnais	Bradley	Aroma Park
Total Flow (MGD)	457.06	267.21	135.784	52.760	1.303
Daily Average Flow (MGD)	14.74	8.62	4.380	1.702	0.042

### 3.0 EFFLUENT QUALITY

Table 3.1 Summarizes the effluent quality data.

**Table 3.1**  
*Effluent Quality*

	IEPA Limits	Effluent Average
Biochemical Oxygen Demand (BOD) – Monthly Average	20 mg/l	8 mg/l
Total Suspended Solids (TSS) - Monthly Average	25 mg/l	33 mg/l
PH	6-9 SU	6.96 SU
Chlorine Residual	0.05 mg/l	n/a
Fecal Coliform	400/100 ml	n/a

### ODOR ISSUES:

- There were no odor complaints registered at the KRMA facility in December.
- There were no odor complaints registered at the East Gate site in December.

### 4.0 PERSONNEL

The Agency would like to Congratulate these KRMA employees on their December work anniversaries. Thank you all for being such a valuable and loyal member of our team. Your knowledge, hard work and dedication is greatly appreciated.

Dustin Scheppler, Assistant Superintendent, 15 years

Nick Scheppler, EIC Instrument Specialist, 11 years

The Agency would like to say “HAPPY BIRTHDAY” to all the employees born in December.

Employees continue to follow the COVID-19 Warning signs and Safety Tips. One of the best ways to help keep workers healthy is to stay home **except** for necessary outings, and when you do go out for the necessities, there are steps you can take to minimize the risk of spreading illness.

**5.0 MAINTENANCE AND REPAIR**

Number of Work Orders Closed for the Month: 867  
Hours of Scheduled Work Orders Performed: 516.01

**6.0 SLUDGE HANDLING**

Start Date: 12/01/2023  
End Date: 12/31/2023

Gallons of sludge produced and sent to thickening: 2,142,329.00  
Gallons of sludge put into storage after thickening: 724,800.00  
Sludge removed from the plant for land application: 0.00  
Sludge remaining in storage: 2,935,000.00

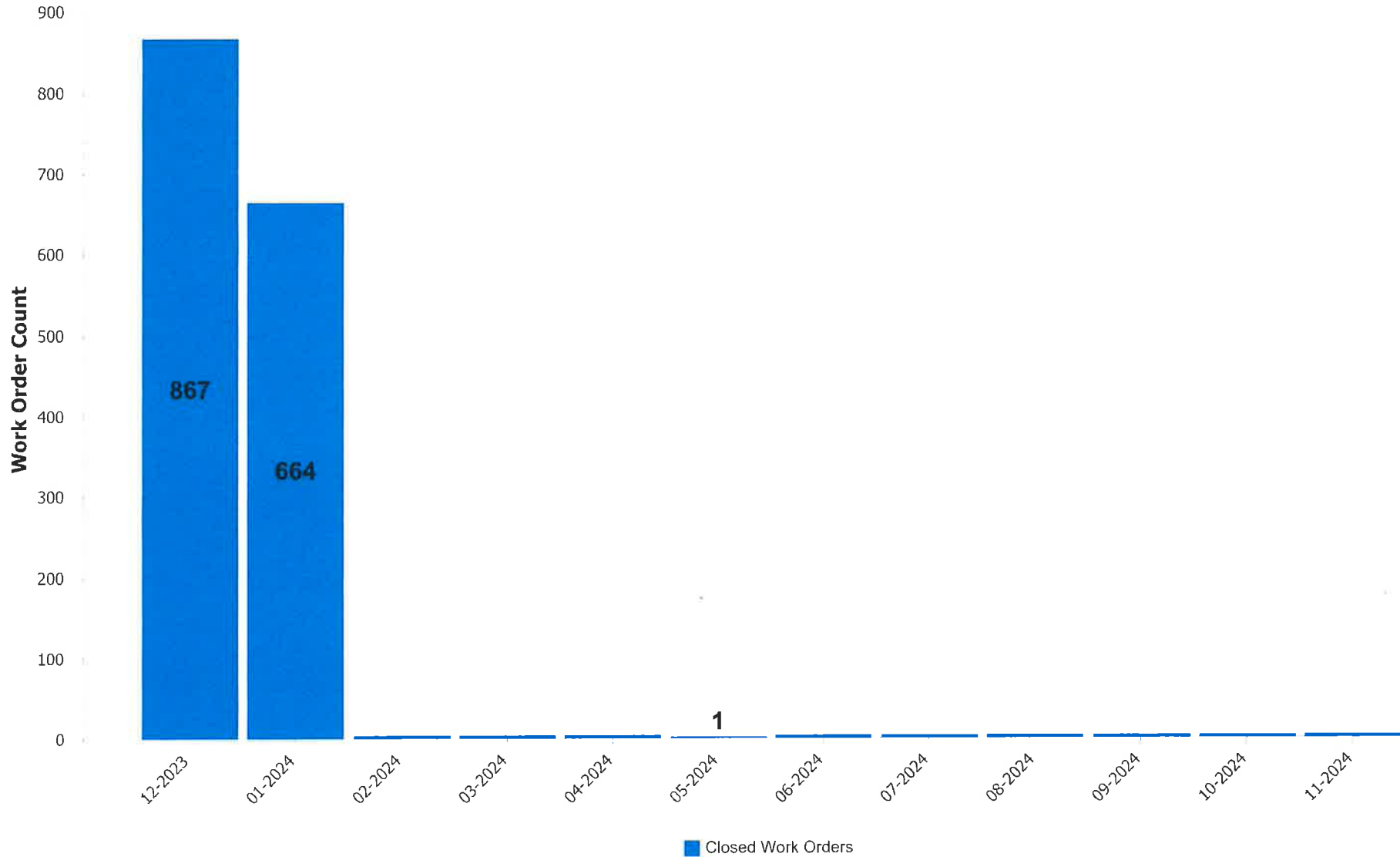
**7.0 WATER USAGE**

DECEMBER 2023 (31 DAYS): 37,979 CU FT= 284,100 GALS. = \$2524.96  
NUMBER OF DAYS IN THE BILLING CYCLE: 31



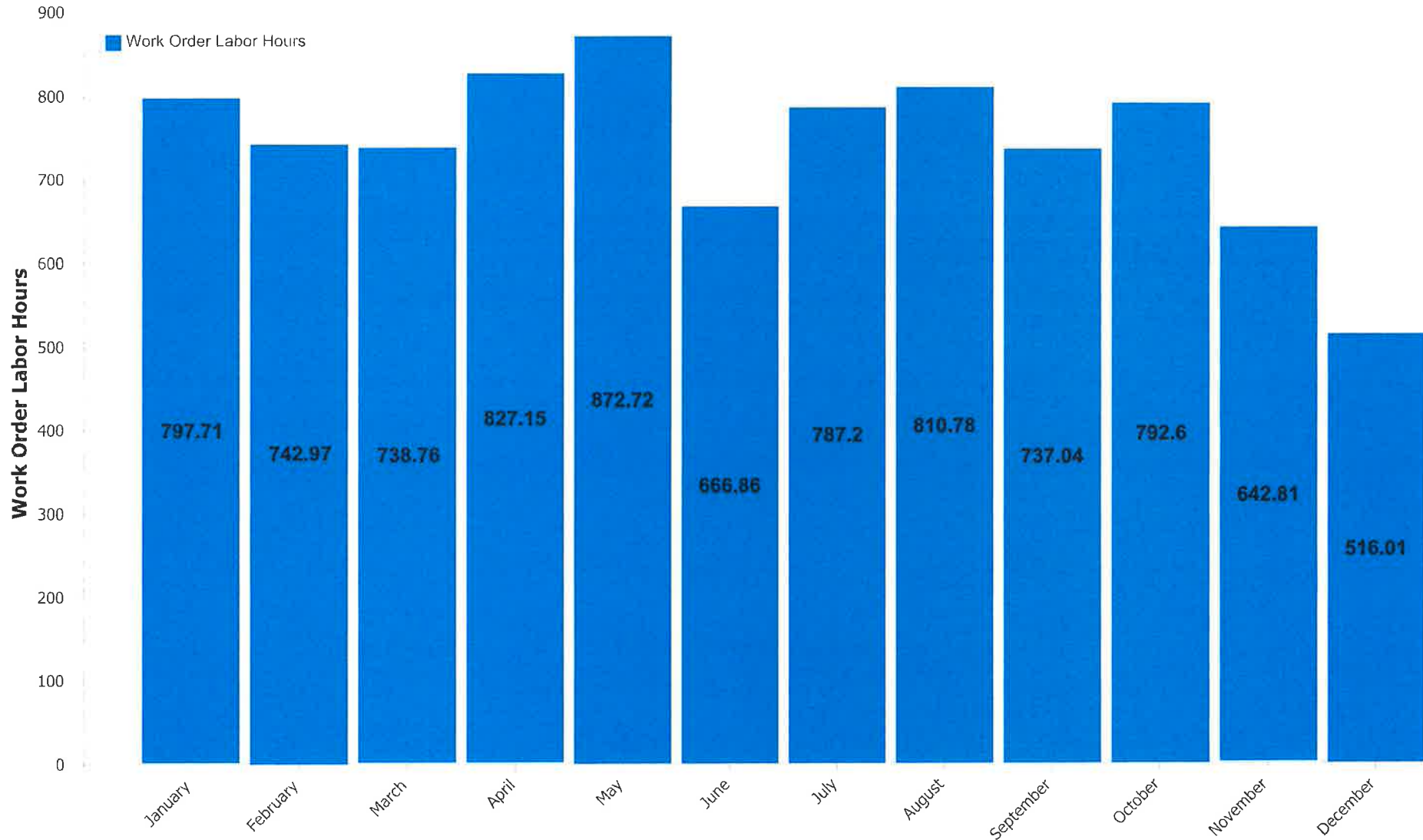
# Work Orders Closed By Month

From December, 2023 to November, 2024



# Work Order Labor Hours by Month

2023



# KANKAKEE RIVER METRO AGENCY Wastewater Report, December 2023

For updates on your plant in-between these monthly reports, please visit our wastewater dashboard <https://iwss.uillinois.edu>

## LOCATION: KANKAKEE RIVER METRO AGENCY (Kankakee County)

### Catchment Information

Population Served	56,317
NPDES	IL0021784
zipcode	60901
IL Covid Region	7

## SARS-CoV-2 LEVELS IN WASTEWATER

Wastewater is analyzed using digital PCR (dPCR) to determine the concentration of the SARS-CoV-2 virus in a sample. The nucleocapsid protein (N) gene of the virus is targeted in the assay, and results are reported in gene copies per liter of starting wastewater.

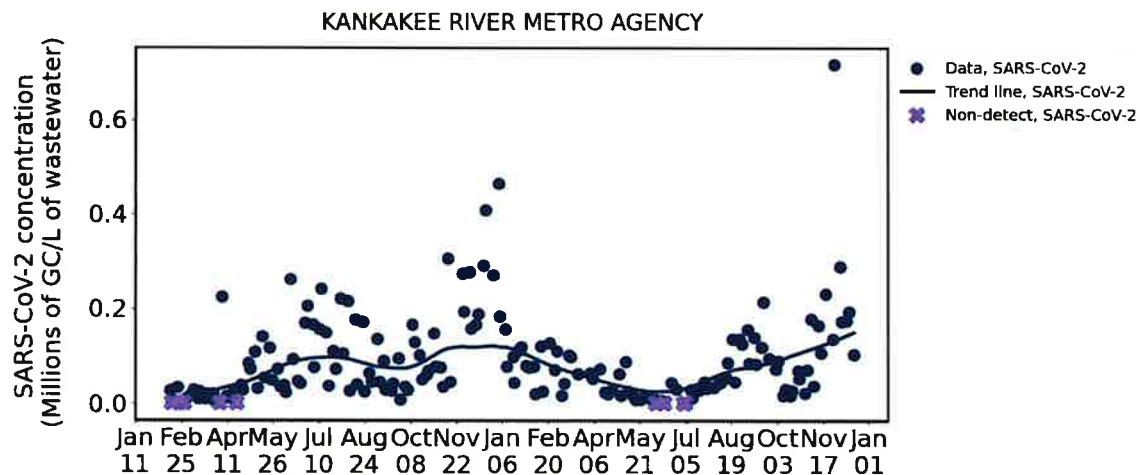


Figure 1. Time series plot of SARS-CoV-2 viral concentrations in millions of gene copies per liter (GC/L) of wastewater.

## SARS-CoV-2 SAMPLING RESULTS - LAST 8 SAMPLES

Date	SARS-CoV-2 (GC/L)
2023-12-18	103,800
2023-12-13	193,575
2023-12-11	174,750
2023-12-06	174,075
2023-12-04	290,550



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2023-11-29	718,725
2023-11-27	136,650
2023-11-20	232,275

## SARS-CoV-2 LINEAGES IN WASTEWATER

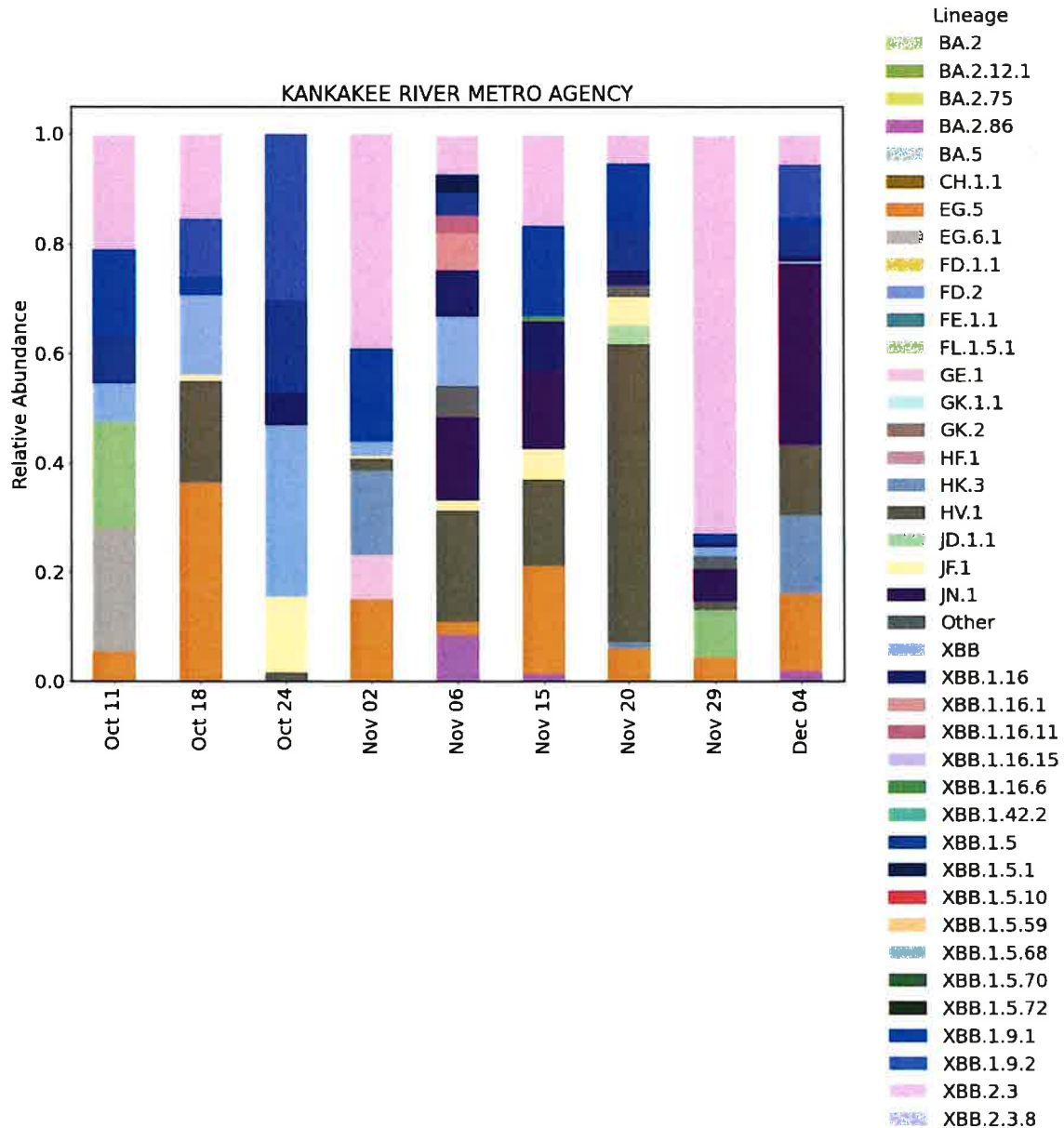


Figure 2. Stacked barplot showing the relative abundances of SARS-CoV-2 lineages in wastewater samples. All lineages in the legend, excluding "Other," are associated with Omicron. The most recently available two months worth of data are shown.

## INFLUENZA A/B LEVELS IN WASTEWATER

Wastewater is analyzed using digital PCR (dPCR) to determine the concentration of influenza A and influenza B viruses in a sample. Results are reported in gene copies per liter of starting wastewater.

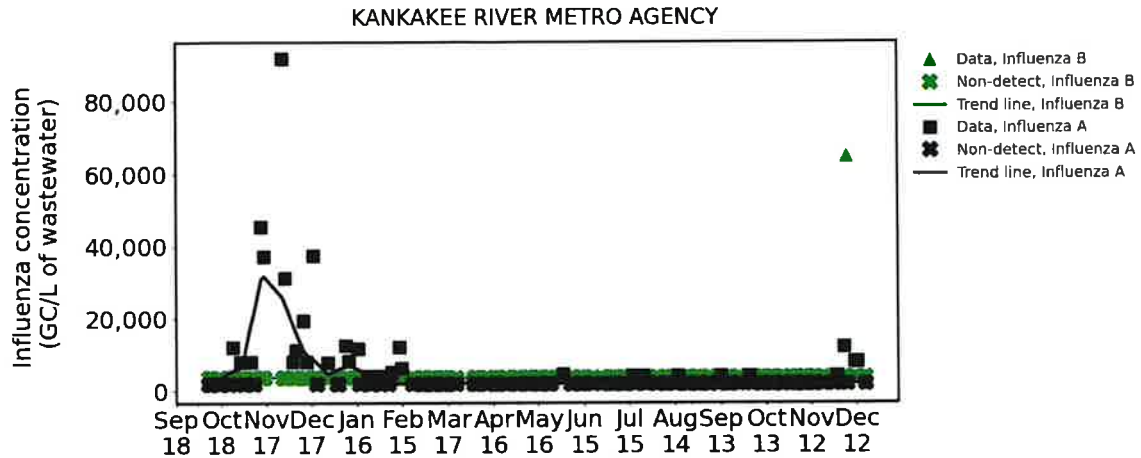


Figure 3. Time series plot of Influenza A/B viral concentrations in gene copies per liter (GC/L) of wastewater.

## INFLUENZA A/B SAMPLING RESULTS - LAST 8 SAMPLES

Date	Influenza A (GC/L)	Influenza B (GC/L)
2023-12-18	Non-detect	Non-detect
2023-12-13	8,025	8,025
2023-12-11	8,100	Non-detect
2023-12-06	Non-detect	64,725
2023-12-04	12,075	Non-detect
2023-11-29	4,125	Non-detect
2023-11-27	Non-detect	Non-detect
2023-11-20	Non-detect	Non-detect

## RSV LEVELS IN WASTEWATER

Wastewater is analyzed using digital PCR (dPCR) to determine the concentration of Respiratory Syncytial Virus (RSV) in a sample. Results are reported in gene copies per liter of starting wastewater.

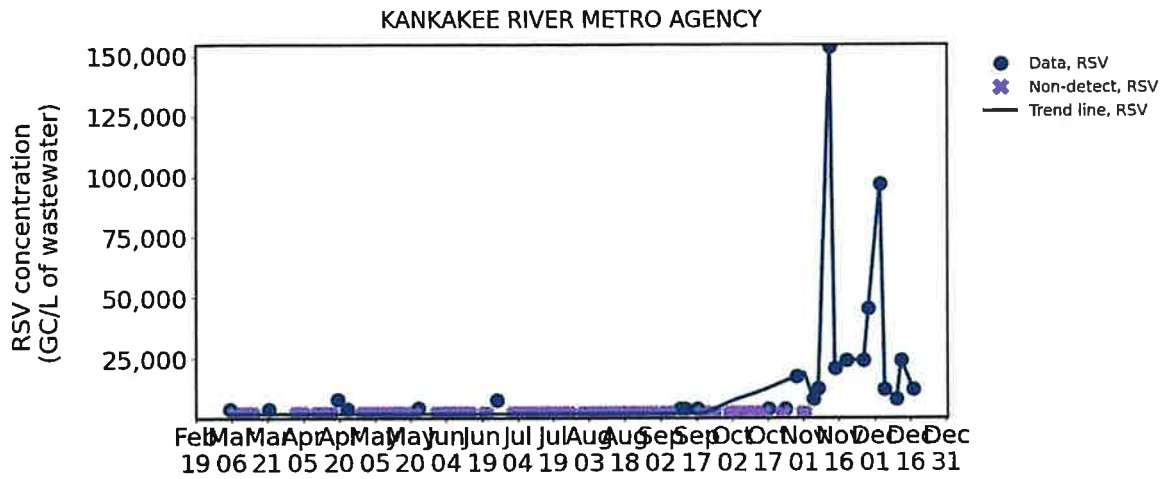


Figure 4. Time series plot of RSV viral concentrations in gene copies per liter (GC/L) of wastewater.

## RSV SAMPLING RESULTS - LAST 8 SAMPLES

Date	RSV (GC/L)
2023-12-18	12,000
2023-12-13	24,150
2023-12-11	8,100
2023-12-06	12,150
2023-12-04	96,750
2023-11-29	45,525
2023-11-27	24,075
2023-11-20	24,000

# **ATTACHMENT**

## **A**

**DMR Monthly Report**

12/1/2023 to 12/31/2023

Var #	452	159	119	236	454	351	113	237	386
	EFF FLOW	001 Eff pH	FINAL EFF TSS	Weekly ave Eff TSS	EFF TSS	WeeklyAveEffTSS	EFF-C-BOD	Weekly Ave EffCBOD	EFF C-BOD
Date	MGD	STD UNIT	mg/L	MG/L	LBS/D	LBS/Day	mg/l	MG/L	lbs\day
12/1/2023	15.968	6.88	29		3,862				
12/2/2023	16.367		17	25	2,321	2,544	6	6	819
12/3/2023	14.872		17		2,109		5		620
12/4/2023	15.239	7.02	14		1,779		3		381
12/5/2023	13.995	6.86	22		2,568		6		700
12/6/2023	14.153	6.93	19		2,243		5		590
12/7/2023	13.044	6.96	23		2,502		5		544
12/8/2023	12.935	7.03	20		2,158				
12/9/2023	12.504		21	19	2,190	2,221	7	5	730
12/10/2023	12.233		22		2,245		7		714
12/11/2023	12.166	6.96	20		2,029		9		913
12/12/2023	11.868	6.92	23		2,277		14		1,386
12/13/2023	11.468	6.75	21		2,009		6		574
12/14/2023	11.270	6.78	22		2,068		7		658
12/15/2023	11.285	7.03	34		3,200				
12/16/2023	14.692		27	24	3,308	2,448	6	8	735
12/17/2023	15.628		22		2,867		4		521
12/18/2023	16.019	6.98	18		2,405		6		802
12/19/2023	13.982	6.95	17		1,982		6		700
12/20/2023	12.941	6.97	18		1,943				
12/21/2023	12.860	7.01	9		965				
12/22/2023	13.536		18		2,032				
12/23/2023	17.780		123	32	18,239	4,348	18	9	2,669
12/24/2023	18.200		94		14,268		11		1,670
12/25/2023	15.772		72		9,471		10		1,315
12/26/2023	17.851	6.89	61		9,082		7		1,042
12/27/2023	18.300	7.18	85		12,973		13		1,984
12/28/2023	16.310	7.08	45		6,121		6		816
12/29/2023	18.167	7.06	25		3,788				
12/30/2023	18.615		28	59	4,347	8,578	8	9	1,242
12/31/2023	17.037		22		3,126		7		995

Minimum	11.270	6.75	9	19	965	2,221	3	5	381
Maximum	18.615	7.18	123	59	18,239	8,578	18	9	2,669
Average	14.744	6.96	33	32	4,273	4,028	8	7	963
Sum	457.057	132.24	1,008	159	132,474	20,140	182	37	23,121

Limit		Range 6-9	25	45	9383	16889	20	40	7506
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**DMR Monthly Report**

12/1/2023 to 12/31/2023

Var #	352	187	191	401	101	450	115	451	455
	WeeklyAverageEffCBOD	001 EFF CL2	FECAL COLI 001	TOTAL INF FLOW	INFLUENT BOD	INF BOD LOAD	INFLUENT TSS	INF TSS	BOD REMOVAL
Date	LBS/Day	mg/L	#/100ml	MGD	mg/L	LBS/D	mg/L	LBS/D	%
12/1/2023				15.97			200	26,635	
12/2/2023	614			16.37	200	27,300	570	77,805	97
12/3/2023				14.87	142	17,613	136	16,868	96
12/4/2023				15.24	111	14,107	196	24,910	97
12/5/2023				14.00	215	25,094	307	35,833	97
12/6/2023				14.15	113	13,338	110	12,984	96
12/7/2023				13.04	127	13,816	213	23,172	96
12/8/2023				12.94			308	33,226	
12/9/2023	594			12.50	193	20,127	244	25,445	96
12/10/2023				12.23	145	14,793	157	16,018	95
12/11/2023				12.17	251	25,468	332	33,686	96
12/12/2023				11.87	282	27,912	644	63,743	95
12/13/2023				11.47	210	20,085	488	46,674	97
12/14/2023				11.27	243	22,840	440	41,356	97
12/15/2023				11.29			428	40,282	
12/16/2023	830			14.69	89	10,905	350	42,886	93
12/17/2023				15.63	80	10,427	156	20,333	95
12/18/2023				16.02	148	19,773	120	16,032	96
12/19/2023				13.98	168	19,590	126	14,693	96
12/20/2023				12.94			94	10,145	
12/21/2023				12.86			198	21,236	
12/22/2023				13.54			76	8,580	
12/23/2023	1,173			17.78	96	14,235	224	33,216	81
12/24/2023				18.20	128	19,429	248	37,643	91
12/25/2023				15.77	63	8,287	128	16,837	84
12/26/2023				17.85	79	11,761	184	27,393	91
12/27/2023				18.30	80	12,210	136	20,757	84
12/28/2023				16.31	82	11,154	184	25,029	93
12/29/2023				18.17			112	16,969	
12/30/2023	1,345			18.62	119	18,475	145	22,511	93
12/31/2023				17.04	121	17,193	98	13,925	94

Minimum	594			11.27	63	8,287	76	8,580	81
Maximum	1,345			18.62	282	27,912	644	77,805	97
Average	911			14.74	145	17,331	237	27,962	94
Sum	4,556			457.06	3,485	415,932	7,352	866,821	2,249

<b>Limit</b>	<b>15012</b>	<b>0.05</b>	<b>400</b>						
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**DMR Monthly Report**

12/1/2023 to 12/31/2023

Var #	456	1040	1041	1042	1043	255	297	953	1023
	TSS REMOVAL	North Effluent DO - SCADA	South Effluent DO - SCADA	Daily Average Effluent DO	Effluent DO weekly average	FINAL EFF NH3N	Eff Nitrogen #	Eff_Total Phosphoru s- TP(TNT)	Effluent Total Nitrogen
Date	%	mg/l	mg/l	mg/l	mg/l	mg/L	#/day	mg/l	mg/l
12/1/2023	86	7.53	9.28	8.41					
12/2/2023	97	7.81	9.36	8.59	8.54				
12/3/2023	88	7.81	9.30	8.56		0.08	10.17	0.32	
12/4/2023	93	8.14	9.64	8.89		0.05	6.35	0.28	
12/5/2023	93	7.64	9.35	8.50		0.36	42.25	0.50	13.48
12/6/2023	83	7.85	9.31	8.58		0.05	5.90	0.56	
12/7/2023	89	8.08	9.44	8.76		0.13	14.58	0.48	
12/8/2023	94	8.02	9.37	8.70					
12/9/2023	91	8.03	9.33	8.68	8.67				
12/10/2023	86	8.48	9.72	9.10		0.05	5.10	0.34	
12/11/2023	94	8.36	9.66	9.01		0.08	7.83	0.42	11.34
12/12/2023	96	8.33	9.67	9.00		0.05	4.95	0.58	
12/13/2023	96	8.64	9.90	9.27		0.06	5.61	0.50	
12/14/2023	95	8.57	9.85	9.21		0.05	4.70	0.45	
12/15/2023	92	8.29	9.50	8.90					
12/16/2023	92	7.97	9.23	8.60	9.01				
12/17/2023	86	8.57	9.64	9.11		0.05	6.52	0.12	
12/18/2023	85	8.89	9.95	9.42		0.05	6.68	0.07	8.40
12/19/2023	87	8.76	9.94	9.35		0.76	88.27	0.07	
12/20/2023	81	8.57	9.87	9.22		0.05	5.40	0.17	
12/21/2023	95	8.57	9.77	9.17					
12/22/2023	76	8.04	9.26	8.65					
12/23/2023	45	8.19	9.23	8.71	9.09				
12/24/2023	62	8.81	9.82	9.32					
12/25/2023	44	8.78	9.77	9.28		0.10	13.15	1.59	
12/26/2023	67	8.69	9.74	9.22		0.11	15.93	1.62	
12/27/2023	38	8.45	9.64	9.05		0.11	17.40	1.75	
12/28/2023	76	8.45	9.67	9.06		0.05	6.80	1.79	18.40
12/29/2023	78	8.60	9.70	9.15					
12/30/2023	81	8.54	9.74	9.14	9.17				
12/31/2023	78	9.02	9.98	9.50					

Minimum	38	7.53	9.23	<b>8.41</b>	<b>8.54</b>	0.05	4.70	0.07	8.40
Maximum	97	9.02	9.98	9.50	9.17	<b>0.76</b>	<b>88.27</b>	1.79	18.40
Average		8.34	9.60	<b>8.97</b>	8.90	0.12	14.87	0.65	12.91
Sum	2,541	258.48	297.63	278.06	44.48	2.24	267.60	11.60	51.62

<b>Limit</b>				<b>min &gt;4.0</b>	<b>&gt;4.5</b>	<b>7.5</b>	<b>2815</b>		
				<b>avg &gt;6.0</b>					

## DMR Monthly Report

12/1/2023 to 12/31/2023

Var #
Date
12/1/2023
12/2/2023
12/3/2023
12/4/2023
12/5/2023
12/6/2023
12/7/2023
12/8/2023
12/9/2023
12/10/2023
12/11/2023
12/12/2023
12/13/2023
12/14/2023
12/15/2023
12/16/2023
12/17/2023
12/18/2023
12/19/2023
12/20/2023
12/21/2023
12/22/2023
12/23/2023
12/24/2023
12/25/2023
12/26/2023
12/27/2023
12/28/2023
12/29/2023
12/30/2023
12/31/2023

1044	1048	1045	102	116	1046	1047
Fecal Coliform at EQ Basin	EQ Basin Residual Chlorine	EQ Basin pH	EQ Basin BOD	EQ Basin TSS	EQ Basin Ammonia Nitrogen	EQ Basin Total Phosphorus
col/100ml	mg/l		mg/L	mg/L	mg/l	mg/l

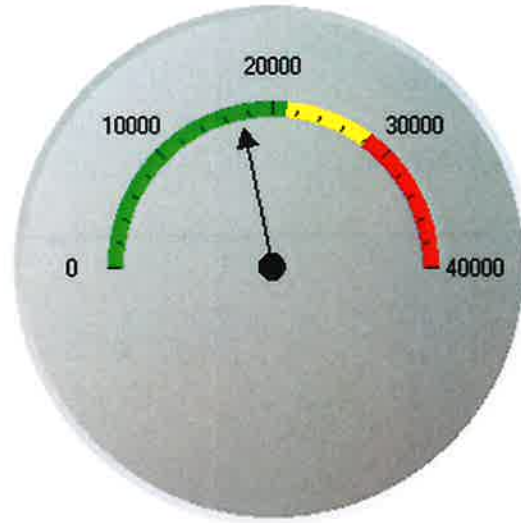
Minimum
Maximum
Average
Sum


<b>400</b>	<b>0.75</b>	<b>Range 6-9</b>			
------------	-------------	------------------	--	--	--

**Influent BOD loading Lbs - Monthly AVG**

**17,331 Lbs./Day**

**12/01/2023 - 12/31/2023**



**Influent NH3 loading Lbs - Monthly AVG**

**2,324 Lbs./Day**

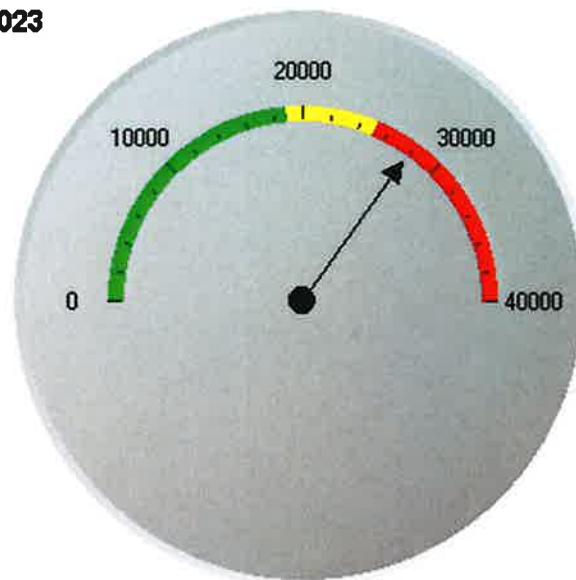
**12/01/2023 - 12/31/2023**



**Influent TSS loading Lbs - Monthly AVG**

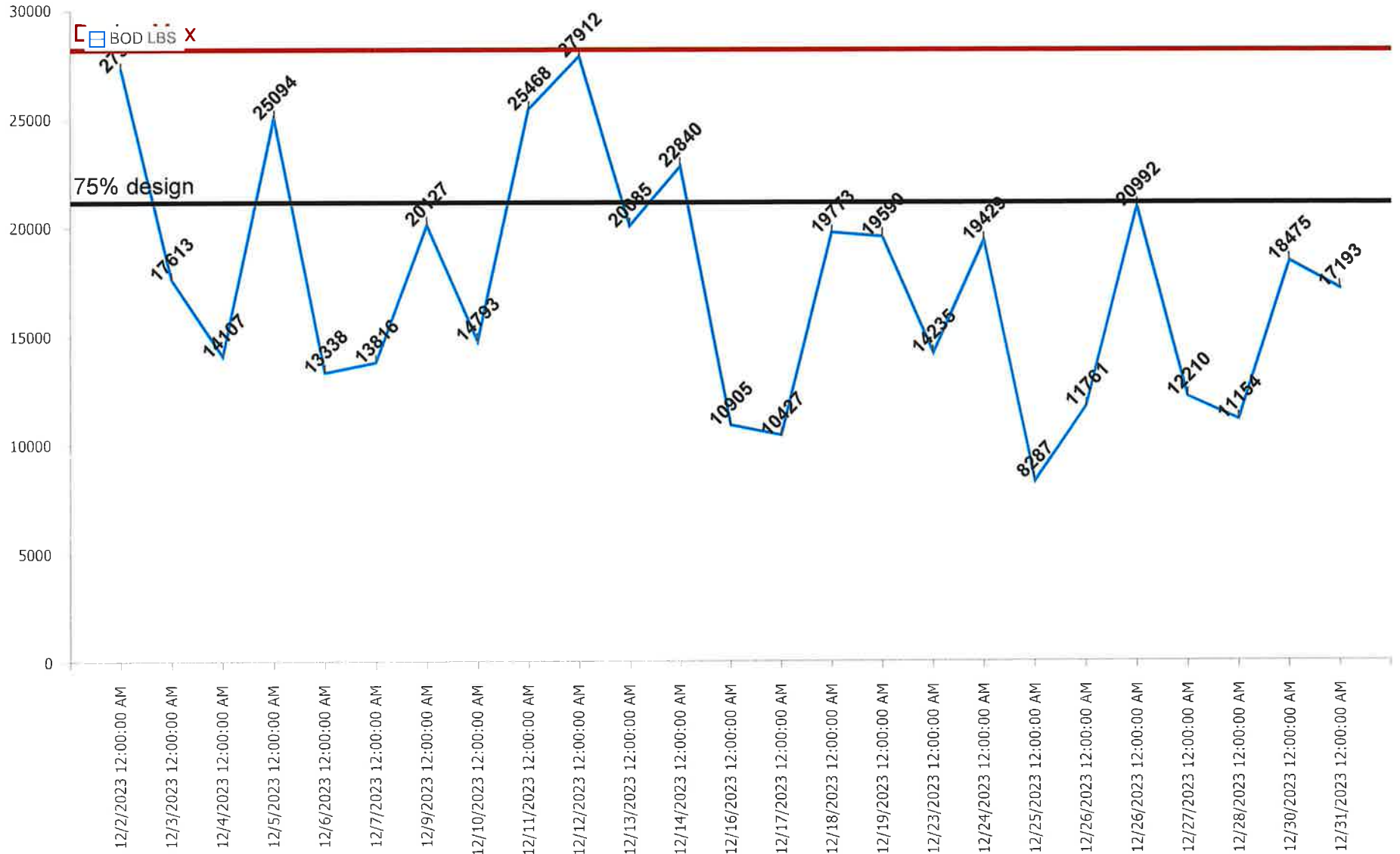
**27,962 Lbs./Day**

**12/01/2023 - 12/31/2023**



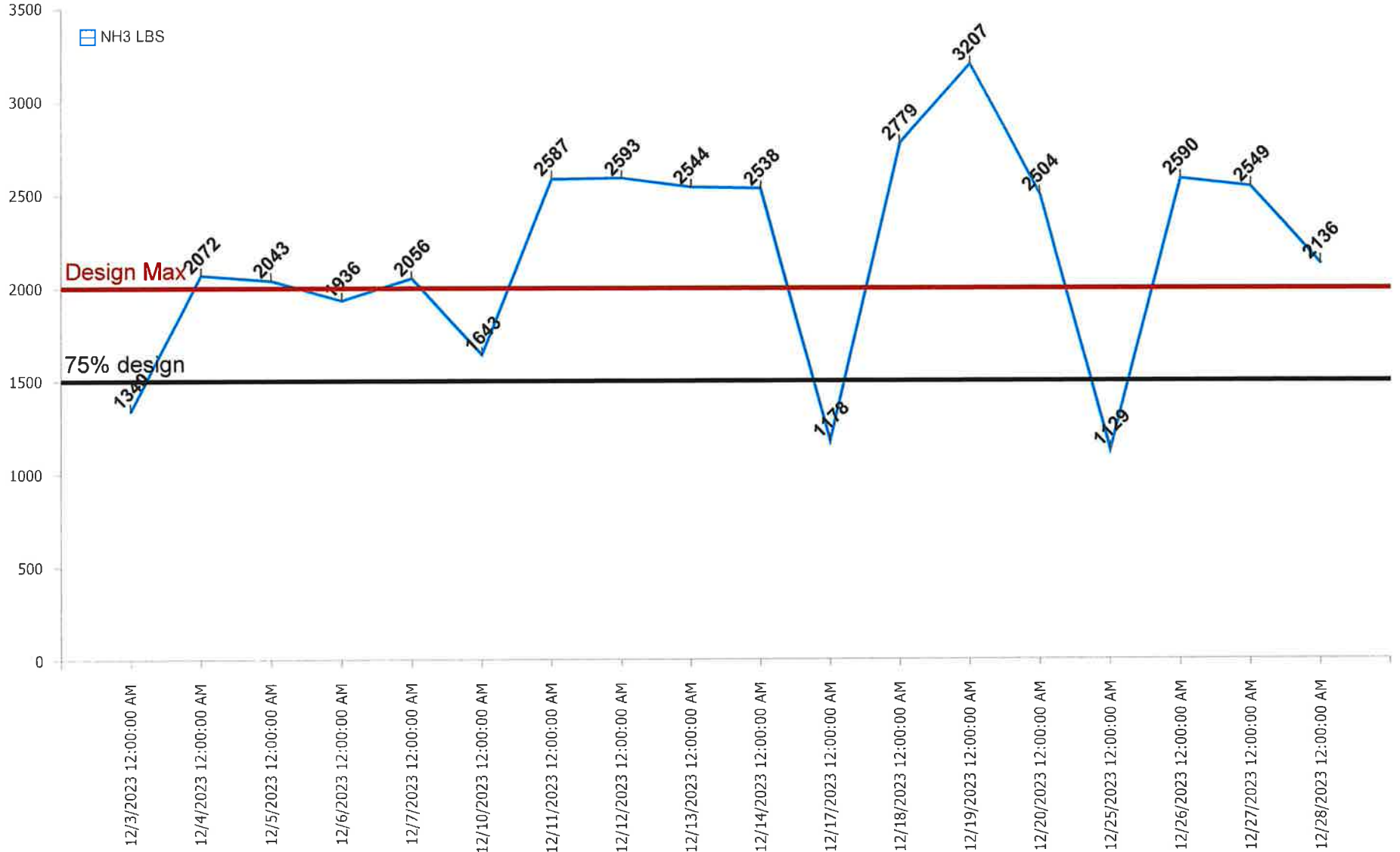
# KRMA influent BOD pounds

Average Lbs. BOD: 17,476.96



# KRMA influent NH3 pounds

Average Lbs. NH3: 2,190.22



# **ATTACHMENT**

## **B**





# **ATTACHMENT**

## **C**



SAFETY MEETING  
January 11, 2024  
9:30am & 1:30pm  
Agenda

### **I. Safety Minutes**

Review minutes from December 2023.

### **II. Old Business**

1. There were no lost time accidents for the month of December 2023.
2. Speeding concern

### **I. New Business**

#### **A. Safety Training**

1. ***Back Safety: Proper Lifting Procedures*** #2558 - IEPA CEU #12976 (1.0 training credits)
2. ***Put a Stop to Trips, Slips and Falls With These Safety Pointers***  
[https://www.tpomag.com/online\\_exclusives/2016/11/put\\_a\\_stop\\_to\\_trips\\_slips\\_and\\_falls\\_with\\_these\\_safety\\_pointers](https://www.tpomag.com/online_exclusives/2016/11/put_a_stop_to_trips_slips_and_falls_with_these_safety_pointers)

#### **B. Safety Concerns**

#### **C. Safety Team Leader Report**

#### **D. Open Discussion**

1. Active Shooter training
2. 401-K plan vote

**Next Meeting: Tuesday, February 13th, 2024 9:30am & 1:30pm**



SAFETY MEETING  
December 12, 2023  
9am  
Minutes

**In attendance:**

Melanie Gossett, Facilitator; Mark Sanders, LCSW, CADC; Deb Hoyer-Denson, KCC

Shaun Ownbey	Jack Renchen	Dan Combs	Shawn Malone	Nick Sceppler
Jim Churney	Josh Peters	John Lund	Max Gossett	Nick Tucker
Alex Bowser	RJ Tyson	Rob Forsman	Dustin Sceppler	Art Strother
Dave Tyson	Tawonda Brown	Michelle Howard		

**Absent:**

Ron Haney, Bryan Kennedy, Mike Arseneau,

**I. Safety Minutes**

Minutes from November 2023 - Approved

**II. Old Business**

1. There were no lost time accidents for the month of November 2023.
2. Everyone was reminded to observe of the speed limit in, and around, the KRMA facility.

**III. New Business**

A. Safety Training

Mark Sanders, DEI Specialist, along with the Office of Continuing Education and Business Partnerships at Kankakee Community College, presented *Blind Spots: An Introduction to Unconscious Biases*.

B. Safety Concerns

No concerns mentioned

C. Safety Team Report

Safety Team Leader responsibilities transferred from Max Gossett to Ron Haney.



## MARK SANDERS



Mark Sanders is an international speaker and consultant whose work has reached thousands throughout the United States, Europe, Canada, West Indies, and Guam. Mark is a Diversity, Equity, and Inclusion (DEI) specialist. He has facilitated DEI workshops for the United States Army, Navy, Air Force and Marines, 3M Corporation and American Family Insurance Company. His clients range from non-profit organizations to Fortune 100 companies.

Mark's non-shaming and non-blaming style of DEI training is well received by workshop participants. As a consultant he can help organizations plan and launch ongoing DEI initiatives. Mark is also the author of five books and has had two stories published in the New York Times Best Selling Book Series *Chicken Soup for The Soul*.

Mark is the recipient of four Lifetime Achievement Awards. He has taught at the University of Chicago, Loyola University of Chicago, and Illinois State University.

# **ATTACHMENT**

## **D**

## FIELD CALIBRATION SHEET

COMPANY: KRMA

CITY: BOURBONNAIS/New

FLOW METER MODEL: Isco Laser Flow

INFLUENT January 8, 2024

PRIMARY DEVICE: 36" PIPE

FLOW: 0-21.36 MGD

MEASURING DEVICE:

CHECK POINTS:

LEVEL? YES

FREE FLOWING? Yes

TURBULENCE? NO

BLOCKAGE? NO

SURFACE BUILD-UP? None

HEAD MEASURING DEVICE MOUNTED PROPERLY?

BLOCKAGE IN HEAD MEASURING DEVICE? NO

IS FLOW METER PROGRAMMED CORRECTLY? YES

CALIBRATION:

**NOTE: THE ZERO POINT FOR MEASURING MUST BE LEVEL WITH THE WEIR CREST OR FLUME ZERO POINT:**

A) IF POSSIBLE, CUT-OFF FLOW & SET LEVEL TO 0.000FT

LEVEL BEFORE:

LEVEL AFTER:

B) IF FLOW CANNOT BE CUT-OFF, ADJUST LEVEL ON METER TO MEASURED POINT:

LEVEL BEFORE: Target level 17.0" As found 17.130"

LEVEL AFTER: 17.130"

C) Actual level 14.340" 3.54 MGD

LEVEL FLOW CONVERSION CHECK:

WITH FLOW THRU PRIMARY DEVICE, CHECK LEVEL TO FLOW CONVERSION WITH HANDBOOK OR PRIMARY DEVICE DATA SHEET: YES/OK

TOTALIZER CHECK:

WITH FLOW GOING THRU PRIMARY DEVICE, VERIFY THAT TOTAL FLOW IS INTEGRATING PROPERLY USING TIMED RATE METHOD: YES/OK

CALIBRATED BY: BRIAN SCHEPPLER

DATE: 1/8/2024

BC SYSTEMS INC.  
2778 N. 4000 E. ROAD  
BOURBONNAIS ILLINOIS 60914  
PHONE: 1-815-671-1257  
FAX: 1-815-802-0219



## FIELD CALIBRATION SHEET

COMPANY: KRMA

CITY: Kankakee Influent

FLOW METER MODEL: Isco Laser Flow

INFLUENT January 8, 2024

PRIMARY DEVICE: 72" PIPE

FLOW: 0-115 MGD

MEASURING DEVICE:

**CHECK POINTS:**

LEVEL? YES

FREE FLOWING? Yes

TURBULENCE? NO

BLOCKAGE? NO

SURFACE BUILD-UP? Foam

HEAD MEASURING DEVICE MOUNTED PROPERLY? YES

BLOCKAGE IN HEAD MEASURING DEVICE? NO

IS FLOW METER PROGRAMMED CORRECTLY? YES

**CALIBRATION:**

**NOTE: THE ZERO POINT FOR MEASURING MUST BE LEVEL WITH THE WEIR CREST OR FLUME ZERO POINT:**

A) IF POSSIBLE, CUT-OFF FLOW & SET LEVEL TO 0.000FT

LEVEL BEFORE:

LEVEL AFTER:

B) IF FLOW CANNOT BE CUT-OFF, ADJUST LEVEL ON METER TO MEASURED POINT:

LEVEL BEFORE: Target level 42.0" As found 42.60"

LEVEL AFTER: 42.00"

C) Actual level 41.00" MGD

**LEVEL FLOW CONVERSION CHECK:**

WITH FLOW THRU PRIMARY DEVICE, CHECK LEVEL TO FLOW CONVERSION WITH HANDBOOK OR PRIMARY DEVICE DATA SHEET: YES/OK

**TOTALIZER CHECK:**

WITH FLOW GOING THRU PRIMARY DEVICE, VERIFY THAT TOTAL FLOW IS INTEGRATING PROPERLY USING TIMED RATE METHOD: YES/OK

CALIBRATED BY: BRIAN SCHEPPLER

DATE: 1/8/2024

BC SYSTEMS INC.  
2778 N. 4000 E. ROAD  
BOURBONNAIS ILLINOIS 60914  
PHONE: 1-815-671-1257  
FAX: 1-815-802-0219

## FIELD CALIBRATION SHEET

COMPANY: KRMA

CITY: KANKAKEE/BROOKMONT

FLOW METER MODEL: ISCO Signature

INFLUENT January 7<sup>th</sup>, 2024

PRIMARY DEVICE: PHARSHAL

FLOW: 0-516 GPM 0-13.20 IN

MEASURING DEVICE: ULTRASONIC

CHECK POINTS:

LEVEL? YES

FREE FLOWING? YES

TURBULENCE? NO

BLOCKAGE? No

SURFACE BUILD-UP? NO

HEAD MEASURING DEVICE MOUNTED PROPERLY? Yes

BLOCKAGE IN HEAD MEASURING DEVICE? NO

IS FLOW METER PROGRAMMED CORRECTLY? Yes

CALIBRATION:

**NOTE: THE ZERO POINT FOR MEASURING MUST BE LEVEL WITH THE WEIR CREST OR FLUME ZERO POINT:**

A) IF POSSIBLE, CUT-OFF FLOW & SET LEVEL TO 0.000FT

LEVEL BEFORE:

LEVEL AFTER:

B) IF FLOW CANNOT BE CUT-OFF, ADJUST LEVEL ON METER TO MEASURED POINT:

LEVEL BEFORE: Target 24.125" Level 24.145"

LEVEL AFTER: 24.126"

Actual Flow 45.70 GPM 2.751"

LEVEL FLOW CONVERSION CHECK:

WITH FLOW THRU PRIMARY DEVICE, CHECK LEVEL TO FLOW CONVERSION WITH HANDBOOK OR PRIMARY DEVICE DATA SHEET: Yes

TOTALIZER CHECK:

WITH FLOW GOING THRU PRIMARY DEVICE, VERIFY THAT TOTAL FLOW IS INTEGRATING PROPERLY USING TIMED RATE METHOD: Yes

CALIBRATED BY: Brian Scheppler

DATE 1/7/2024

BC SYSTEMS INC.  
2778 N. 4000 E. ROAD  
BOURBONNAIS ILLINOIS 60914  
PHONE: 1-815-671-1257  
FAX: 1-815-802-0219

**FIELD CALIBRATION SHEET**

COMPANY: KRMA

CITY: KANKAKEE/RIVERLANE

FLOW METER MODEL: Isco Signature

INFLUENT January 7<sup>th</sup>, 2024

PRIMARY DEVICE: PHARSHAL

FLOW: 0-516 GPM 0-13.20 IN

MEASURING DEVICE: ULTRASONIC

**CHECK POINTS:**

LEVEL? YES

FREE FLOWING?

TURBULENCE? NO

BLOCKAGE? No

SURFACE BUILD-UP? No

HEAD MEASURING DEVICE MOUNTED PROPERLY? Yes

BLOCKAGE IN HEAD MEASURING DEVICE? NO

IS FLOW METER PROGRAMMED CORRECTLY? Yes

**CALIBRATION:**

**NOTE: THE ZERO POINT FOR MEASURING MUST BE LEVEL WITH THE WEIR CREST OR FLUME ZERO POINT:**

A) IF POSSIBLE, CUT-OFF FLOW & SET LEVEL TO 0.000FT  
LEVEL BEFORE:

LEVEL AFTER:

B) IF FLOW CANNOT BE CUT-OFF, ADJUST LEVEL ON METER TO MEASURED  
POINT

C) LEVEL BEFORE: TARGET SET 24.125" Level 24.160"

LEVEL AFTER: 24.121"

D) Actual Flow 2.381" 36.47 GPM

**LEVEL FLOW CONVERSION CHECK:**

WITH FLOW THRU PRIMARY DEVICE, CHECK LEVEL TO FLOW CONVERSION WITH HANDBOOK OR PRIMARY DEVICE DATA SHEET: Yes

**TOTALIZER CHECK:**

WITH FLOW GOING THRU PRIMARY DEVICE, VERIFY THAT TOTAL FLOW IS INTEGRATING PROPERLY USING TIMED RATE METHOD: Yes

CALIBRATED BY: Brian Schepler

DATE: 1/7/2024

BC SYSTEMS INC.  
2778 N. 4000 E. ROAD  
BOURBONNAIS ILLINOIS 60914  
PHONE: 1-815-671-1257  
FAX: 1-815-802-0219

## FIELD CALIBRATION SHEET

COMPANY: KRMA

CITY: KANKAKEE

FLOW METER MODEL: Siemens Hydro Ranger #2

INFLUENT January 8, 2024

PRIMARY DEVICE: Flume

FLOW: 0-73.425 MGD

MEASURING DEVICE: Ultrasonic

### CHECK POINTS:

LEVEL? YES

FREE FLOWING? Yes

TURBULENCE? NO

BLOCKAGE? NO

SURFACE BUILD-UP? No

HEAD MEASURING DEVICE MOUNTED PROPERLY? YES

BLOCKAGE IN HEAD MEASURING DEVICE? NO

IS FLOW METER PROGRAMMED CORRECTLY? YES

### CALIBRATION:

NOTE: THE ZERO POINT FOR MEASURING MUST BE LEVEL WITH THE WEIR CREST OR FLUME ZERO POINT:

A) IF POSSIBLE, CUT-OFF FLOW & SET LEVEL TO 0.000FT

LEVEL BEFORE:

LEVEL AFTER:

B) IF FLOW CANNOT BE CUT-OFF, ADJUST LEVEL ON METER TO MEASURED POINT:

LEVEL BEFORE: Target Set 20 MGD AS Found 19.67 MGD

LEVEL AFTER: 19.97 MGD

C) Actual Flow 13.66 MGD

### LEVEL FLOW CONVERSION CHECK:

WITH FLOW THRU PRIMARY DEVICE, CHECK LEVEL TO FLOW CONVERSION WITH HANDBOOK OR PRIMARY DEVICE DATA SHEET: YES/OK

### TOTALIZER CHECK:

WITH FLOW GOING THRU PRIMARY DEVICE, VERIFY THAT TOTAL FLOW IS INTEGRATING PROPERLY USING TIMED RATE METHOD: YES/OK

CALIBRATED BY: BRIAN SCHEPPLER

DATE: 1/8/2024

BC SYSTEMS INC.  
2778 N. 4000 E. ROAD  
BOURBONNAIS ILLINOIS 60914  
PHONE: 1-815-671-1257  
FAX: 1-815-802-0219

## FIELD CALIBRATION SHEET

COMPANY: KRMA

CITY: BRADLEY/ RIVER DRIVE

FLOW METER MODEL: Isco Signature

INFLUENT January 7<sup>th</sup>, 2024

PRIMARY DEVICE: PHARSHAL

FLOW: 0-21.36

MEASURING DEVICE: ULTRASONIC

### CHECK POINTS:

LEVEL? YES

FREE FLOWING? Yes

TURBULENCE? Yes

BLOCKAGE? NO

SURFACE BUILD-UP? NONE

HEAD MEASURING DEVICE MOUNTED PROPERLY? Yes

BLOCKAGE IN HEAD MEASURING DEVICE? NO

IS FLOW METER PROGRAMMED CORRECTLY? YES

### CALIBRATION:

NOTE: THE ZERO POINT FOR MEASURING MUST BE LEVEL WITH THE WEIR CREST OR FLUME ZERO POINT:

A) IF POSSIBLE, CUT-OFF FLOW & SET LEVEL TO 0.000FT  
LEVEL BEFORE:

LEVEL AFTER:

B) IF FLOW CANNOT BE CUT-OFF, ADJUST LEVEL ON METER TO MEASURED  
POINT:

LEVEL BEFORE: Target 9" Level reading 8.941"

LEVEL AFTER: 9.012"

C) Actual Flow 2.16 MGD 6.823"

### LEVEL FLOW CONVERSION CHECK:

WITH FLOW THRU PRIMARY DEVICE, CHECK LEVEL TO FLOW CONVERSION WITH HANDBOOK OR PRIMARY DEVICE DATA SHEET: YES/OK

### TOTALIZER CHECK:

WITH FLOW GOING THRU PRIMARY DEVICE, VERIFY THAT TOTAL FLOW IS INTEGRATING PROPERLY USING TIMED RATE METHOD: YES/OK

CALIBRATED BY: BRIAN SCHEPPLER

DATE: 1/7/2024

BC SYSTEMS INC.  
2778 N. 4000 E. ROAD  
BOURBONNAIS ILLINOIS 60914  
PHONE: 1-815-671-1257  
FAX: 1-815-802-0219

## FIELD CALIBRATION SHEET

COMPANY: KRMA

CITY: KANKAKEE

FLOW METER MODEL: Siemens Hydro Ranger #2

INFLUENT January 8, 2024

PRIMARY DEVICE: Flume

FLOW: 0-73.425 MGD

MEASURING DEVICE: Ultrasonic

### CHECK POINTS:

LEVEL? YES

FREE FLOWING? Yes

TURBULENCE? NO

BLOCKAGE? NO

SURFACE BUILD-UP? No

HEAD MEASURING DEVICE MOUNTED PROPERLY? YES

BLOCKAGE IN HEAD MEASURING DEVICE? NO

IS FLOW METER PROGRAMMED CORRECTLY? YES

### CALIBRATION:

NOTE: THE ZERO POINT FOR MEASURING MUST BE LEVEL WITH THE WEIR CREST OR FLUME ZERO POINT:

A) IF POSSIBLE, CUT-OFF FLOW & SET LEVEL TO 0.000FT

LEVEL BEFORE:

LEVEL AFTER:

B) IF FLOW CANNOT BE CUT-OFF, ADJUST LEVEL ON METER TO MEASURED POINT:

LEVEL BEFORE: Target Set 20 MGD AS Found 19.67 MGD

LEVEL AFTER: 19.97 MGD

C) Actual Flow 13.66 MGD

### LEVEL FLOW CONVERSION CHECK:

WITH FLOW THRU PRIMARY DEVICE, CHECK LEVEL TO FLOW CONVERSION WITH HANDBOOK OR PRIMARY DEVICE DATA SHEET: YES/OK

### TOTALIZER CHECK:

WITH FLOW GOING THRU PRIMARY DEVICE, VERIFY THAT TOTAL FLOW IS INTEGRATING PROPERLY USING TIMED RATE METHOD: YES/OK

CALIBRATED BY: BRIAN SCHEPPLER

DATE: 1/8/2024

BC SYSTEMS INC.  
2778 N. 4000 E. ROAD  
BOURBONNAIS ILLINOIS 60914  
PHONE: 1-815-671-1257  
FAX: 1-815-802-0219

# **ATTACHMENT**

**E**

December 2023 Monthly Pretreatment Sample Analysis (metals, cyanide & VOA) for the permitted industries were a total of **60 samples** and a total of **346 analyses**.

<b>Gilster-Mary Lee Corporation</b>	1 Sample
<b>Hoffman Transportation, LLC</b>	6 Samples
<b>Laraway Recycling &amp; Disposal Facility</b>	8 Samples
<b>Liberty Landfill, LLC</b>	10 Samples
<b>Livingston Landfill</b>	5 Samples
<b>Natural Gas &amp; Pipeline Co. of America</b>	4 Samples
<b>Peoria Packing Co.</b>	2 Samples
<b>Prairie View RDF</b>	11 Samples
<b>Tank Cleaning Solutions, LLC</b>	13 Samples

Volumes Received for December 2023 for trucked-in industries.

<b>Gilster-Mary Lee Corporation</b>	5,000 gals	1 load
<b>Hoffman Transportation, LLC</b>	155,000 gals	31 loads
<b>Kankakee Recycling &amp; Disposal Facility</b>	0 gals	0 loads
<b>Lake County C&amp;D Landfill</b>	0 gals	0 loads
<b>Laraway Recycling &amp; Disposal Facility</b>	111,153 gals	19 loads
<b>Liberty Landfill, LLC</b>	782,326 gals	118 loads
<b>Livingston Landfill</b>	357,755 gals	54 loads
<b>Momence Packing</b>	0 gals	0 loads
<b>Natural Gas &amp; Pipeline Co. of America</b>	85,000 gals	17 loads
<b>Newton County Landfill</b>	0 gals	0 loads
<b>Peoria Packing Co.</b>	13,500 gals	5 loads
<b>Prairie View - Will County RNG Plant</b>	0 gals	0 loads
<b>Prairie View RDF</b>	363,665 gals	54 loads
<b>Tank Cleaning Solutions, LLC</b>	172,821 gals	33 loads
<b>Verdant Specialty Solutions US LLC</b>	0 gals	0 loads
<b>Zutat Feed Solutions</b>	0 gals	0 loads
<b>Totals:</b>	<b>2,046,220 gals</b>	<b>332 loads</b>

The KRMA Facility received a total of **155 loads** of septage which totalled **487,550 gallons** for the month of December 2023



**KRMA YEARLY UTILITY USAGE - (2023)**

KRMA ELECTRIC ENERGY USE										KRMA WATER USE				
	Total KWH	Days	Total Cost \$/month	Total Cost \$/day	Hydro KWH	Methane KWH	Champion Energy KWH	KWH/HR (Avg)	\$/KWH	Gallons	Days	Total Cost \$/Billing Period	Gallons/Day	Total Cost \$/day
JANUARY	814,907	33	\$ 28,536	\$ 865	-	157319	657,588	1,029	\$ 0.0350	281,400	29	\$ 2,334	9,703	80
FEBRUARY	813,209	30	\$ 28,607	\$ 954	-	149,689	663,520	1,129	\$ 0.0352	237,600	28	\$ 2,190	8,486	78
MARCH	828,155	30	\$ 27,102	\$ 903	-	207,461	620,694	1,150	\$ 0.0327	284,500	33	\$ 2,686	8,621	81
APRIL	779,763	30	\$ 44,543	\$ 1,485	-	186,199	593,564	1,083	\$ 0.0571	247,400	28	\$ 2,434	8,836	87
MAY	715,001	29	\$ 43,938	\$ 1,515	-	207,749	507,252	1,027	\$ 0.0615	362,700	31	\$ 3,215	11,700	104
JUNE	725,435	33	\$ 47,234	\$ 1,431	-	182,334	543,101	916	\$ 0.0651	331,400	33	\$ 3,003	10,042	91
JULY	608,823	31	\$ 49,423	\$ 1,594	-	32,938	575,885	818	\$ 0.0812	366,700	28	\$ 3,242	13,096	116
AUGUST	593,240	29	\$ 49,978	\$ 1,723	-	-	593,240	852	\$ 0.0842	436,400	34	\$ 3,715	12,835	109
SEPTEMBER	699,666	32	\$ 55,641	\$ 1,739	-	16,645	683,021	911	\$ 0.0795	347,400	29	\$ 3,113	11,979	107
OCTOBER	695,856	29	\$ 41,586	\$ 1,434	-	236,818	459,038	1,000	\$ 0.0598	275,800	30	\$ 2,628	9,193	88
NOVEMBER	722,712	33	\$ 54,489	\$ 1,651	-	107,383	615,329	913	\$ 0.0754	273,900	31	\$ 2,615	8,835	84
DECEMBER	732,198	31	\$ 50,045	\$ 1,614	-	221,705	510,493	984	\$ 0.0683	284,100	31	\$ 2,525	9,165	81
<b>TOTAL</b>	<b>8,728,965</b>	<b>370</b>	<b>\$ 521,123</b>	<b>16,909</b>	<b>0</b>	<b>1,706,240</b>	<b>7,022,725</b>	<b>11,813</b>	<b>\$ 0.7351</b>	<b>3,729,300</b>	<b>365</b>	<b>\$ 33,700</b>	<b>122,493</b>	<b>1,108</b>
	Total KWH	Days	Total Cost \$/month	Total Cost \$/day	Hydro KWH	Methane KWH	Mid-American KWH	KWH/HR (Avg)	\$/KWH	Gallons	Days	Total Cost \$/Billing Period	Gallons/Day	Total Cost \$/day

KRMA NATURAL GAS USE				
	Therms	Days	Total Cost \$/Billing Period	Total Cost \$/day
JANUARY	41,951	32	\$ 28,538	1311 \$ 892
FEBRUARY	47,361	32	\$ 30,829	1480 \$ 963
MARCH	28,740	29	\$ 25,312	991 \$ 873
APRIL	28,404	30	\$ 18,677	947 \$ 623
MAY	22,356	31	\$ 14,880	721 \$ 480
JUNE	12,325	30	\$ 8,403	411 \$ 280
JULY	10,205	30	\$ 2,203	340 \$ 73
AUGUST	9,381	31	\$ 6,460	303 \$ 208
SEPTEMBER	8,706	30	\$ 1,883	290 \$ 63
OCTOBER	9,783	29	\$ 15,570	337 \$ 537
NOVEMBER	21,273	29	\$ 14,097	734 \$ 486
DECEMBER	35,898	32	\$ 24,136	1122 \$ 754
<b>TOTAL</b>	<b>276,383</b>	<b>365</b>	<b>\$ 190,988</b>	<b>8,987 \$ 6,233</b>
	Therms	Days	Total Cost \$/Billing Period	Total Cost \$/day



### Annual Load / Gallon Totals

2023

Month Received	Gilster-Mary Lee Corporation	Hoffman Transportation, LLC	Kankakee Recycling & Disposal Facility	Laraway Recycling & Disposal Facility	Liberty Landfill, LLC	Livingston Landfill	Natural Gas & Pipeline Co. of America	Newton County Landfill	Peoria Packing Co.	Prairie View RDF	Tank Cleaning Solutions, LLC	Verdant Specialty Solutions US LLC	Zutat Feed Solutions	Total	# Loads
January	40,000	150,000	21,000		1,153,315	200,568	50,000	802,409		205,948	204,684	32,941	24,000	2,884,865	457
February	42,000	155,000	84,000		815,342	147,452	80,000	499,119		209,033	214,389	66,587		2,312,922	374
March	24,000	163,000	77,000	31,151	947,972	171,549	130,000	494,982		244,828	209,480			2,493,962	402
April	16,000	160,000	98,000	90,004	973,052	167,651	55,000	538,632		285,477	178,058			2,561,874	403
May	24,000	140,000	42,000	94,243	1,143,477	153,374	15,000	117,933		487,654	209,480			2,427,161	383
June		160,000	21,000	5,647	874,891	139,778	5,000	179,466		366,123	193,769			1,945,674	307
July	6,000	130,000	7,000		696,445	129,270	55,000			174,189	204,243			1,402,147	229
August	30,000	155,000			721,041	137,550	30,000			146,673	209,480			1,429,744	233
September	6,000	155,000			507,316	138,708	35,000			122,440	188,532			1,152,996	191
October	6,000	160,000		5,787	291,804	122,126	55,000			248,258	214,717			1,103,692	185
November	12,000	160,000			474,973	142,963	30,000			370,679	172,821			1,363,436	222
December	5,000	155,000		111,153	782,326	357,755	85,000		13,500	363,665	172,821			2,046,220	332
<b>Totals</b>	<b>211,000</b>	<b>1,843,000</b>	<b>350,000</b>	<b>337,985</b>	<b>9,321,954</b>	<b>2,008,744</b>	<b>625,000</b>	<b>2,632,541</b>	<b>13,500</b>	<b>3,224,967</b>	<b>2,372,474</b>	<b>99,528</b>	<b>24,000</b>	<b>23,124,693</b>	<b>3,718</b>
Average	19,181	153,583	50,000	56,330	781,829	167,395	52,083	438,756	13,500	268,747	197,706	49,764	24,000	1,927,058	310
Treatment Costs as of 05/01/23	0.09	0.062	0.062	0.062	0.062	0.062	0.09	0.1	0.09	0.062	0.09	0.145	0.086		
Treatment Costs as of 05/01/22	0.086	0.059	0.059	0.059	0.059	0.059	0.086	0.08	0.086	0.059	0.086	0.138	0.082		

# KRMA Flows Report

	Kankakee Flows				Bradley Flows				Bourbonnais Flows				Aroma Park Flows				TOTALS	TOTALS
	YTD Actual Flows	Actual Flows	% of Total	Estimated %	YTD Actual Flows	Actual Flows	% of Total	Estimated %	YTD Actual Flows	Actual Flows	% of Total	Estimated %	YTD Actual Flows	Actual Flows	% of Total	Estimated %		
5/31/2021	346.570	346.570	65.99%	63.38%	60.497	60.497	11.52%	12.36%	116.826	116.826	22.24%	23.92%	1.290	1.290	0.25%	0.34%	525.183	1.000
6/30/2021	634.090	287.520	66.76%	63.38%	103.540	43.043	9.99%	12.36%	215.789	98.963	22.98%	23.92%	2.460	1.170	0.27%	0.34%	430.696	1.000
7/31/2021	930.320	296.230	70.61%	63.38%	137.501	33.961	8.10%	12.36%	304.021	88.232	21.03%	23.92%	3.562	1.102	0.26%	0.34%	419.525	1.000
8/31/2021	1162.810	232.490	67.69%	63.38%	166.666	29.165	8.49%	12.36%	384.716	80.695	23.49%	23.92%	4.699	1.137	0.33%	0.34%	343.487	1.000
9/30/2021	1359.410	206.600	66.65%	63.38%	193.616	26.950	8.69%	12.36%	460.262	75.546	24.37%	23.92%	5.600	0.901	0.29%	0.34%	309.997	1.000
10/31/2021	1787.590	418.180	67.50%	63.38%	265.529	71.913	11.61%	12.36%	587.784	127.522	20.58%	23.92%	7.475	1.875	0.30%	0.34%	619.490	1.000
11/30/2021	2068.130	280.540	65.59%	63.38%	314.880	49.351	11.54%	12.36%	684.120	96.336	22.52%	23.92%	8.937	1.462	0.34%	0.34%	427.689	1.000
12/31/2021	2315.330	247.200	60.47%	63.38%	362.817	47.937	11.73%	12.36%	796.476	112.356	27.48%	23.92%	10.246	1.309	0.32%	0.34%	408.802	1.000
1/31/2022	2567.800	252.470	64.39%	63.38%	408.584	45.767	11.67%	12.36%	889.113	92.637	23.63%	23.92%	11.455	1.209	0.31%	0.34%	392.083	1.000
2/28/2022	2952.230	384.430	66.67%	63.38%	471.548	62.964	10.92%	12.36%	1016.840	127.727	22.15%	23.92%	12.972	1.517	0.26%	0.34%	576.638	1.000
3/31/2022	3301.220	348.990	61.44%	63.38%	539.845	68.297	12.02%	12.36%	1165.653	148.813	26.20%	23.92%	14.880	1.908	0.34%	0.34%	568.008	1.000
4/30/2022	3673.760	372.540	63.95%	63.38%	608.424	68.579	11.77%	12.36%	1305.059	139.406	23.93%	23.92%	16.901	2.021	0.35%	0.34%	582.546	1.000
		3673.760	65.554%			608.424	10.857%			1305.059	23.287%			16.901	0.302%		5604.144	12.000
	Kankakee Flows				Bradley Flows				Bourbonnais Flows				Aroma Park Flows				TOTALS	TOTALS
	YTD Actual Flows	Actual Flows	% of Total	Estimated %	YTD Actual Flows	Actual Flows	% of Total	Estimated %	YTD Actual Flows	Actual Flows	% of Total	Estimated %	YTD Actual Flows	Actual Flows	% of Total	Estimated %		
5/31/2022	327.190	327.190	63.29%	65.55%	59.684	59.684	11.54%	10.86%	128.467	128.467	24.85%	23.29%	1.632	1.632	0.32%	0.30%	516.973	1.000
6/30/2022	589.310	262.120	67.13%	65.55%	36.566	36.566	9.36%	10.86%	90.737	90.737	23.24%	23.29%	1.047	1.047	0.27%	0.30%	390.470	1.000
7/31/2022	845.820	256.510	69.25%	65.55%	32.633	32.633	8.81%	10.86%	80.160	80.160	21.64%	23.29%	1.083	1.083	0.29%	0.30%	370.386	1.000
8/31/2022	1073.610	227.790	68.05%	65.55%	27.078	27.078	8.09%	10.86%	78.806	78.806	23.54%	23.29%	1.089	1.089	0.33%	0.30%	334.763	1.000
9/30/2022	1270.980	197.370	66.81%	65.55%	24.400	24.400	8.26%	10.86%	72.615	72.615	24.58%	23.29%	1.022	1.022	0.35%	0.30%	295.407	1.000
10/31/2022	1478.340	207.360	65.54%	65.55%	29.974	29.974	9.47%	10.86%	78.126	78.126	24.69%	23.29%	0.949	0.949	0.30%	0.30%	316.409	1.000
11/30/2022	1675.230	196.890	63.27%	65.55%	30.268	30.268	9.73%	10.86%	83.143	83.143	26.72%	23.29%	0.899	0.899	0.29%	0.30%	311.200	1.000
12/31/2022	1914.460	239.230	64.26%	65.55%	40.083	40.083	10.77%	10.86%	91.917	91.917	24.69%	23.29%	1.026	1.026	0.28%	0.30%	372.256	1.000
1/31/2023	2164.510	250.050	64.07%	65.55%	42.295	42.295	10.84%	10.86%	96.867	96.867	24.82%	23.29%	1.043	1.043	0.27%	0.30%	390.255	1.000
2/28/2023	2416.300	251.790	59.61%	65.55%	51.947	51.947	12.30%	10.86%	117.385	117.385	27.79%	23.29%	1.262	1.262	0.30%	0.30%	422.384	1.000
3/31/2023	2808.030	391.730	60.21%	65.55%	89.485	89.485	13.75%	10.86%	167.099	167.099	25.68%	23.29%	2.277	2.277	0.35%	0.30%	650.591	1.000
4/30/2023	3098.910	290.880	64.32%	65.55%	143.995	54.510	12.05%	10.86%	272.361	105.262	23.27%	23.29%	3.892	1.615	0.36%	0.30%	452.267	1.000
		3,098.910	64.248%			518.923	10.759%			1,190.584	24.684%			14.944	0.310%		4,823.361	12.000
	Kankakee Flows				Bradley Flows				Bourbonnais Flows				Aroma Park Flows				TOTALS	TOTALS
	YTD Actual Flows	Actual Flows	% of Total	Estimated %	YTD Actual Flows	Actual Flows	% of Total	Estimated %	YTD Actual Flows	Actual Flows	% of Total	Estimated %	YTD Actual Flows	Actual Flows	% of Total	Estimated %		
5/31/2023	241.200	241.200	63.06%	64.25%	42.940	42.940	11.23%	10.76%	97.296	97.296	25.44%	24.68%	1.078	1.078	0.28%	0.31%	382.514	1.000
6/30/2023	429.120	187.920	66.42%	64.25%	27.600	27.600	9.76%	10.76%	66.500	66.500	23.50%	24.68%	0.910	0.910	0.32%	0.31%	282.930	1.000
7/31/2023	634.720	205.600	61.28%	64.25%	35.730	35.730	10.65%	10.76%	93.260	93.260	27.80%	24.68%	0.920	0.920	0.27%	0.31%	335.510	1.000
8/31/2023	859.940	225.220	65.28%	64.25%	36.170	36.170	10.48%	10.76%	82.660	82.660	23.96%	24.68%	0.970	0.970	0.28%	0.31%	345.020	1.000
9/30/2023	1062.280	202.340	64.02%	64.25%	32.810	32.810	10.38%	10.76%	79.930	79.930	25.29%	24.68%	0.980	0.980	0.31%	0.31%	316.060	1.000
10/31/2023	1280.950	218.670	55.75%	64.25%	52.360	52.360	13.35%	10.76%	120.040	120.040	30.60%	24.68%	1.170	1.170	0.30%	0.31%	392.240	1.000
11/30/2023	1487.430	206.480	61.78%	64.25%	35.660	35.660	10.67%	10.76%	91.140	91.140	27.27%	24.68%	0.960	0.960	0.29%	0.31%	334.240	1.000
12/31/2023	1754.640	267.210	58.46%	64.25%	52.760	52.760	11.54%	10.76%	135.780	135.780	29.71%	24.68%	1.300	1.300	0.28%	0.31%	457.050	1.000
1/31/2024	1754.640		0.00%	64.25%	0.000		0.00%	10.76%	0.000		0.00%	24.68%	0.000		0.00%	0.31%	0.000	0.000
2/29/2024	1754.640		0.00%	64.25%	0.000		0.00%	10.76%	0.000		0.00%	24.68%	0.000		0.00%	0.31%	0.000	0.000
3/31/2024	1754.640		0.00%	64.25%	0.000		0.00%	10.76%	0.000		0.00%	24.68%	0.000		0.00%	0.31%	0.000	0.000
4/30/2024	1754.640		0.00%	64.25%	0.000		0.00%	10.76%	0.000		0.00%	24.68%	0.000		0.00%	0.31%	0.000	0.000
		1,754.640	61.662%			316.030	11.106%			766.606	26.940%			8.288	0.291%		2,845.564	8.000

**Flows**  
**KRMA Treatment Facility**  
**December, 2023**

Date	PRECIPITA INCHES	PLANT MGD	Kankakee MGD	BOURB. MGD	BradleyFlow MGD	AromaPark MGD
12/1/2023	.97	15.97	9.74	4.80	1.39	.04
12/2/2023	.00	16.37	10.15	4.77	1.41	.04
12/3/2023	.00	14.87	8.09	5.14	1.61	.04
12/4/2023	.13	15.24	9.55	4.44	1.22	.04
12/5/2023	.00	14.00	8.34	4.30	1.32	.04
12/6/2023	.00	14.15	8.48	3.92	1.72	.04
12/7/2023	.00	13.04	7.54	3.82	1.65	.03
12/8/2023	.00	12.94	7.77	3.60	1.53	.04
12/9/2023	.00	12.50	7.46	3.51	1.50	.04
12/10/2023	.04	12.23	7.34	3.35	1.51	.04
12/11/2023	.00	12.17	7.78	3.21	1.14	.03
12/12/2023	.00	11.87	7.66	3.07	1.11	.03
12/13/2023	.00	11.47	7.44	2.97	1.03	.03
12/14/2023	.00	11.27	7.35	2.91	.98	.03
12/15/2023	.00	11.29	7.39	2.86	.99	.04
12/16/2023	.00	14.69	8.26	4.49	1.90	.04
12/17/2023	.84	15.63	7.69	5.64	2.26	.04
12/18/2023	.00	16.02	9.60	4.43	1.95	.04
12/19/2023	.00	13.98	8.40	3.82	1.72	.04
12/20/2023	.00	12.94	7.72	3.56	1.63	.04
12/21/2023	.40	12.86	8.03	3.36	1.44	.04
12/22/2023	.70	13.54	8.08	3.85	1.56	.05
12/23/2023	.00	17.78	8.65	6.62	2.46	.05
12/24/2023	.00	18.20	10.93	5.14	2.08	.05
12/25/2023	.00	15.77	8.55	5.25	1.92	.05
12/26/2023	.48	17.85	8.90	6.51	2.38	.06
12/27/2023	.00	18.30	10.81	5.19	2.25	.05
12/28/2023	.38	16.31	9.23	4.86	2.16	.05
12/29/2023	.00	18.17	9.41	6.24	2.46	.06
12/30/2023	.00	18.62	10.82	5.40	2.34	.06
12/31/2023	.03	17.04	10.07	4.77	2.14	.06
Total	3.97	457.06	267.21	135.78	52.76	1.30
Average	.13	14.74	8.62	4.38	1.70	.04
Minimum	.00	11.27	7.34	2.86	.98	.03
Maximum	.97	18.62	10.93	6.62	2.46	.06
# of data	31.00	31.00	31.00	31.00	31.00	31.00



**SERVICES TO OWNER**

**Strand Associates, Inc.®**

1170 South Houbolt Road

Joliet, IL 60431

(P) 815.744.4200

www.strand.com

January 10, 2024

Kankakee River Metropolitan Agency  
1600 West Brookmont Boulevard  
Kankakee, IL 60901

Attention: Mr. David A. Tyson, P.E., Executive Director

Re: Agreement for Design and Bidding-Related Services  
Phase 1 Wastewater Treatment Plant Modifications

This is an Agreement between the Kankakee River Metropolitan Agency, hereinafter referred to as OWNER, and Strand Associates, Inc.®, hereinafter referred to as ENGINEER, to provide Design and Bidding-Related Services (Services) for the Phase 1 Wastewater Treatment Plant (WWTP) Modifications project at OWNER's WWTP. This Agreement shall be in accordance with the following elements.

### Scope of Services

ENGINEER will provide the following Services to OWNER.

1. Participate in one kickoff meeting at OWNER's WWTP to review the design parameters and preliminary schedule and to gather site-specific information.
2. Participate in up to three visits to the WWTP site and prepare preliminary design of the project components identified for capital improvement plan near-term projects in OWNER's Project Plan dated May 2023, prepared by ENGINEER, and summarize in a Basis of Design Report, which includes the following:
  - a. Design criteria.
  - b. Preliminary process equipment information, acceptable manufacturers, and control functions.
  - c. Draft control descriptions.
  - d. Process flow diagram and schematics.
  - e. Preliminary site plan.
  - f. Preliminary facility layouts.
  - g. Code review. It is anticipated the modifications will be designed in accordance with the National Fire Protection Association Standard for Fire Protection in Wastewater Treatment and Collection Facilities (NFPA 820).
  - h. Opinion of probable construction cost (OPCC).
  - i. Preliminary implementation schedule.
  - j. Preliminary construction sequence.
  - k. Final design scope including the following:
    - (1) Design new odor control systems to replace the existing systems outside Buildings 15, 55, and 66.

Kankakee River Metropolitan Agency  
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- (2) Design replacement motors for three influent mechanical screens and one screening conveyor.
  - (3) Design replacement Building 55 Device Net controls and variable frequency drives.
3. Submit a draft Basis of Design Report to OWNER for review. Participate in one meeting with OWNER to discuss comments and incorporate the comments, as appropriate. Finalize and submit one electronic portable document format (PDF) file of the report to OWNER.
  4. Prepare draft Bidding Documents using Engineers Joint Contract Documents Committee C-700 Standard General Conditions of the Construction Contract, 2018 edition, technical specifications, and engineering drawings for the project to be competitively bid as a single prime construction contract.
  5. Provide 60 percent draft Bidding Documents to OWNER for review. Prepare an updated OPCC using the Bidding Documents. Attend a 60 percent design review meeting with OWNER and incorporate OWNER's comments, as appropriate.
  6. Provide 90 percent draft Bidding Documents to OWNER for review. Prepare an updated OPCC using the Bidding Documents. Attend a 90 percent design review meeting with OWNER and incorporate OWNER's comments, as appropriate.
  7. Submit up to three paper copies and one electronic copy in PDF of the draft Bidding Documents to OWNER for review.
  8. Incorporate OWNER's review comments, as appropriate, into the Bidding Documents. Submit up to three paper copies and a PDF file of the final Bidding Documents to OWNER. Prepare an updated OPCC using the final Bidding Documents.

#### Bidding-Related Services

1. Distribute Bidding Documents electronically through QuestCDN, available at [www.strand.com](http://www.strand.com) and [www.questcdn.com](http://www.questcdn.com). Submit Advertisement to Bid to OWNER for publishing.
2. Attend one prebid meeting with OWNER and potential bidders.
3. Prepare addenda and answer questions during bidding.
4. Attend bid opening, tabulate and analyze bid results, and assist OWNER in the award of the Construction Contract.
5. Prepare three sets of Contract Documents for signature.

#### **Service Elements Not Included**

The following services are not included in this Agreement. If such services are required, they will be provided through an amendment to this Agreement or through a separate agreement.

1. Additional Site Visits and/or Meetings: Additional OWNER-required site visits or meetings.

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2. Archaeological or Botanical Investigations: ENGINEER will assist OWNER in engaging the services of an archaeologist or botanist, if required, to perform the field investigations necessary for agency review.
3. Bidding Alternatives and Bid Phasing: Any services involved in providing bidding alternatives or bidding phases.
4. Construction-Related Services: Any services involved in performing construction-related services.
5. Flood Studies: Any services involved in performing flood and floodway studies.
6. Land and Easement Surveys/Procurement: Any services of this type including, but not limited to, a record search, field work, preparation of legal descriptions, or assistance to OWNER for securing land rights necessary for the project.
7. Preparation for and/or Appearance in Litigation on Behalf of OWNER: Any services related to litigation.
8. Revising Designs, Drawings, Specifications, and Documents: Any services required after these items have been previously approved by state or federal regulatory agencies, because of a change in project scope or where such revisions are necessary to comply with changed state and federal regulations that are put in force after Services have been partially completed.
9. Services Furnished During Readvertisement for Bids, if Ordered by OWNER: If a Contract is not awarded pursuant to the original bids.
10. Services Related to Buried Wastes and Contamination: Should buried solid, liquid, or potentially hazardous wastes or subsurface or soil contamination be uncovered at the site, follow-up investigations may be required to identify the nature and extent of such wastes or subsurface soil or groundwater contamination and to determine appropriate methods for managing of such wastes or contamination and for follow-up monitoring.

**Compensation**

OWNER shall compensate ENGINEER for Services under this Agreement on an hourly rate basis plus expenses a fee not to exceed \$560,000 allocated as follows:

<u>Scope Item</u>	<u>Compensation</u>
Design Services	\$552,000
Bidding-Related Services	\$8,000
Total	<u>\$560,000</u>

Monthly invoices will include Services performed, percentage of Services performed, and an hourly breakdown by discipline of Services performed for the amount of the monthly invoice.

Expenses incurred such as those for travel, meals, printing, postage, copies, computer, electronic communication, and long distance telephone calls will be billed at actual cost.

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Only sales taxes or other taxes on Services that are in effect at the time this Agreement is executed are included in the Compensation. If the tax laws are subsequently changed by legislation during the life of this Agreement, this Agreement will be adjusted to reflect the net change.

The fee for the Services is based on wage scale/hourly billing rates, adjusted annually on July 1, and as summarized in Table 1, that anticipates the Services will be completed as indicated. Should the completion time be extended, it may be cause for an adjustment in the fee that reflects any wage scale adjustments made.

**Table 1**

Classification	Billing Rate Per Hour
Principal	\$385
Engineer VI	\$305
Engineer V	\$290
Engineer IV	\$245
Engineer III	\$205
Engineer II	\$165
Engineer I	\$125
Architect II	\$200
Architect I	\$145
Technician	\$145
Office Production	\$120

The fee will not be exceeded without prior notice to and agreement by OWNER but may be adjusted for time delays, time extensions, amendments, or changes in the **Scope of Services** not caused by ENGINEER. Any adjustments will be negotiated based on ENGINEER’s increase or decrease in costs caused by delays, extensions, amendments, or changes.

**Schedule**

Services will begin upon execution of this Agreement, which is anticipated the week of January 22, 2024. Services are scheduled for completion on June 30, 2025.

**Standard of Care**

The Standard of Care for all Services performed or furnished by ENGINEER under this Agreement will be the care and skill ordinarily used by members of ENGINEER’s profession practicing under similar circumstances at the same time and in the same locality. ENGINEER makes no warranties, express or implied, under this Agreement or otherwise, in connection with ENGINEER’s Services.

**OWNER’s Responsibilities**

1. Assist ENGINEER by placing at ENGINEER’s disposal all available information pertinent to this project including previous reports, previous drawings and specifications, and any other data relative to the scope of this project.
  
2. Furnish to ENGINEER, as required by ENGINEER for performance of Services as part of this Agreement, data prepared by or services of others obtained or prepared by OWNER relative to the scope of this project, such as soil borings, probings and subsurface explorations, and laboratory tests and inspections of samples, all of which ENGINEER may rely upon in performing Services under this Agreement.



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3. Provide access to and make all provisions for ENGINEER to enter upon public and private lands as required for ENGINEER to perform Services under this Agreement.
4. Examine all reports, sketches, estimates, special provisions, drawings, and other documents presented by ENGINEER and render, in writing, decisions pertaining thereto within a reasonable time so as not to delay the performance of ENGINEER.
5. Provide all legal services as may be required for the development of this project.
6. Pay all permit and plan review fees payable to regulatory agencies.

#### **Opinion of Probable Cost**

Any opinions of probable cost prepared by ENGINEER are supplied for general guidance of OWNER only. ENGINEER has no control over competitive bidding or market conditions and cannot guarantee the accuracy of such opinions as compared to contract bids or actual costs to OWNER.

#### **Changes**

1. OWNER may make changes within the general scope of this Agreement in the Services to be performed. If such changes cause an increase or decrease in ENGINEER's cost or time required for performance of any Services under this Agreement, an equitable adjustment will be made and this Agreement will be modified in writing accordingly.
2. No services for which additional compensation will be charged by ENGINEER will be furnished without the written authorization of OWNER. The fee established herein will not be exceeded without agreement by OWNER but may be adjusted for time delays, time extensions, amendments, or changes in the **Scope of Services** not caused by ENGINEER.
3. If there is a modification of Agency requirements relating to the Services to be performed under this Agreement subsequent to the date of execution of this Agreement, the increased or decreased cost of performance of the Services provided for in this Agreement will be reflected in an appropriate modification of this Agreement.

#### **Extension of Services**

This Agreement may be extended for additional Services upon OWNER's written authorization. Extension of Services will be provided for a lump sum or an hourly rate plus expenses.

#### **Payment**

OWNER shall make monthly payments to ENGINEER for Services performed in the preceding month based upon monthly invoices. Nonpayment 30 days after the date of receipt of invoice may, at ENGINEER's option, result in assessment of a 1 percent per month carrying charge on the unpaid balance.

Nonpayment 45 days after the date of receipt of invoice may, at ENGINEER's option, result in suspension of Services upon five calendar days' notice to OWNER. ENGINEER will have no liability to OWNER, and OWNER agrees to make no claim for any delay or damage as a result of such suspension caused by any breach of this Agreement by OWNER. Upon receipt of payment in full of all outstanding sums due from OWNER, or curing of such other breach which caused ENGINEER to suspend Services, ENGINEER will resume Services and there will be an equitable adjustment to the remaining project schedule and compensation as a result of the suspension.

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Failure to make payments to ENGINEER is cause for termination upon two-week notice to OWNER.

### **Termination**

This Agreement may be terminated in whole or in part in writing by either party subject to a two-week notice and the right of the party being terminated to meet and discuss the termination before the termination takes place. ENGINEER will be paid for all completed or obligated Services up to the date of termination.

### **Audit, Access to Records**

In accordance with 35 ILLINOIS ADMINISTRATIVE CODE CH.II.SEC.365.630, SUBTITLE C, books, records, documents, and other evidence directly pertinent to performance of Illinois Environmental Protection Agency (IEPA) loan work under this Task Order shall be maintained consistent with generally accepted accounting standards in accordance with the American Institute of Certified Public Accountants Professional Standards (666 Fifth Avenue, New York, New York 10019; June 1, 1987). The IEPA or any of its duly authorized representatives shall have access to such books, records, documents, and other evidence for the purpose of inspection, audit, and copying. Facilities for such access and inspection shall be provided.

Audits conducted pursuant to this provision shall be in accordance with generally accepted auditing standards.

Disclosure of all information and reports resulting from access to records shall be provided to the IEPA. The auditing agency will afford ENGINEER an opportunity for an audit exit conference and an opportunity to comment on the pertinent portions of the draft audit report. The final audit report will include the written comments, if any, of the audited parties.

Records shall be maintained and made available during performance of Services under this Task Order and until three years after the final loan closing. In addition, those records which relate to any “dispute” appeal under an IEPA loan agreement, or litigation, or the settlement of claims arising out of such performance, or costs or items to which an audit exception has been taken, shall be maintained and made available until three years after the date of resolution of such appeal, litigation, claim, or exception.

### **Certification Regarding Debarment, Suspension, and Other Responsibility Matters**

See Attached United States Environmental Protection Agency (USEPA) Form 5700-49 (11-88).

### **Covenant Against Contingent Fees**

In accordance with 35 ILLINOIS ADMINISTRATIVE CODE CH.II.SEC.365.630, SUBTITLE C, ENGINEER warrants that no person or selling agency has been employed or retained to solicit or secure this contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bonafide employees. For breach or violation of this warranty, the loan recipient shall have the right to annul this Task Order without liability or in its discretion to deduct from the contract price or consideration or otherwise recover, the full amount of such commission, percentage, brokerage, or contingent fee.

### **USEPA Non-Discrimination Clause**

ENGINEER shall not discriminate on the basis of race, color, national origin, or sex in the performance of this Agreement. The contractor shall carry out applicable requirements of 40 CFR Part 33 in the award and administration of contracts awarded under the Water Pollution Control Loan Program (WPCLP).

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Failure by the contractor to carry out these requirements is a material breach of this contract which may result in the termination of this contract or other legally available remedies.

#### **USEPA Fair Share Percentage Clause**

ENGINEER agrees to take affirmative steps to assure that disadvantaged business enterprises are used when possible as sources of supplies, equipment, construction, and services in accordance with the WPCLP rules. As required by the award conditions of USEPA's Assistance Agreement with IEPA, ENGINEER acknowledges that the fair share percentages are five percent for Minority Business Enterprises and 12 percent for Women's Business Enterprises.

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ENGINEER is not responsible for the quality or accuracy of data nor for the methods used in the acquisition or development of any such data where such data is provided by or through OWNER, contractor, or others to ENGINEER and where ENGINEER's Services are to be based upon such data. Such data includes, but is not limited to, soil borings, groundwater data, chemical analyses, geotechnical testing, reports, calculations, designs, drawings, specifications, record drawings, contractor's marked-up drawings, and topographical surveys.

#### **Third-Party Beneficiaries**

Nothing contained in this Agreement creates a contractual relationship with or a cause of action in favor of a third party against either OWNER or ENGINEER. ENGINEER's Services under this Agreement are being performed solely for OWNER's benefit, and no other party or entity shall have any claim against ENGINEER because of this Agreement or the performance or nonperformance of Services hereunder. OWNER and ENGINEER agree to require a similar provision in all contracts with contractors, subcontractors, subconsultants, vendors, and other entities involved in this project to carry out the intent of this provision.

#### **Dispute Resolution**

Except as may be otherwise provided in this Agreement, all claims, counterclaims, disputes, and other matters in question between OWNER and ENGINEER arising out of or relating to this Agreement or the breach thereof will be decided first by mediation, if the parties mutually agree, or with a bench trial in a court of competent jurisdiction within the State of Illinois.

#### **Remedies**

Neither ENGINEER nor OWNER shall be liable to the other for special, indirect, punitive, or consequential damages for claims, disputes, or other matters in question arising out of this or relating to this Agreement. This mutual waiver is applicable, without limitation, due to either party's termination of this Agreement.

#### **Terms and Conditions**

The terms and conditions of this Agreement will apply to the Services defined in the **Scope of Services** and represent the entire Agreement and supersede any prior proposals, Requests for Qualifications, or Agreements. OWNER-supplied purchase order is for processing payment only; terms and conditions on the purchase order shall not apply to these Services.

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IN WITNESS WHEREOF the parties hereto have made and executed this Agreement.

ENGINEER:  
STRAND ASSOCIATES, INC.®

OWNER:  
KANKAKEE RIVER METROPOLITAN AGENCY

NOT FOR  
SIGNATURE

\_\_\_\_\_  
Joseph M. Bunker  
Corporate Secretary

Date

\_\_\_\_\_  
David A. Tyson  
Executive Director

Date



NFS TO OWNER

**Strand Associates, Inc.®**

1170 South Houbolt Road

Joliet, IL 60431

(P) 815.744.4200

www.strand.com

January 10, 2024

Kankakee River Metropolitan Agency  
1600 West Brookmont Boulevard  
Kankakee, IL 60901

Attention: Mr. David A. Tyson, P.E., Executive Director

Re: Agreement for Design and Bidding-Related Services  
Phases 2 and 3 Wastewater Treatment Plant Modifications

This is an Agreement between the Kankakee River Metropolitan Agency, hereinafter referred to as OWNER, and Strand Associates, Inc.®, hereinafter referred to as ENGINEER, to provide Design and Bidding-Related Services (Services) for the Phases 2 and 3 Wastewater Treatment Plant (WWTP) Modifications. This Agreement shall be in accordance with the following elements.

### **Scope of Services**

ENGINEER will provide the following Services to OWNER.

#### Design Services

1. Participate in one kickoff meeting at OWNER's WWTP to review the design parameters and preliminary schedule and to gather site-specific information.
2. Assist OWNER with obtaining geotechnical services to conduct onsite geotechnical investigations. OWNER shall contract directly with its geotechnical engineering firm for all geotechnical services.
3. Perform one topographic survey of the anticipated project area using OWNER's coordinate system. The anticipated project area includes the area surrounding Structure 25, Building 60, and Building 66.
4. Participate in up to five visits to the WWTP site and prepare preliminary design of the project components identified for Alternatives ST1, BS3, BH3, and SS4 in OWNER's Project Plan dated May 2023, prepared by ENGINEER; and summarize in a Basis of Design Report, which includes the following:
  - a. Design criteria.
  - b. Preliminary process equipment information, acceptable manufacturers, and control functions.
  - c. Draft control descriptions.
  - d. Process flow diagram and schematics.
  - e. Preliminary site plan.
  - f. Preliminary facility layouts.
  - g. Code review. It is anticipated the modifications will be designed in accordance with the National Fire Protection Association Standard for Fire Protection in Wastewater Treatment and Collection Facilities (NFPA 820).

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- h. Preliminary geotechnical information.
  - i. Opinion of probable construction cost (OPCC).
  - j. Preliminary implementation schedule.
  - k. Preliminary construction sequence.
  - l. Final design scope including the following two bid alternatives for Phases 2 and 3 WWTP Modifications:
    - (1) Bid Alternative No. 1 for Phase 2 WWTP Modifications is anticipated to include:
      - (a) Install hydrocyclone sludge densification skid on a new structure adjacent to the activated sludge tanks, waste activated sludge (WAS) piping modifications to pump WAS from the raw activated sludge (RAS)/WAS pumping stations to the hydrocyclones, and construction of a WAS wet well with submersible pumps to convey overflow from the hydrocyclones to Building 55.
      - (b) Construct two additional 120-foot-diameter secondary clarifiers.
      - (c) Construct a RAW/WAS pumping station for the new secondary clarifiers.
      - (d) Demolish the existing gravity belt thickener and two steel glass-lined sludge storage tanks.
      - (e) Rehabilitate two steel glass-lined sludge storage tanks.
      - (f) Install two new progressing cavity dewatering feed pumps, two new centrifuges, and new dewatered biosolids conveyor system in Building 66.
      - (g) Construct a new 43,500-square-foot covered biosolids storage building.
    - (2) Bid Alternative No. 2 for Phase 3 WWTP Modifications is anticipated to include:
      - (a) Construct one additional activated sludge train of the same volume (2.49 million gallons) and configuration as each of the activated sludge trains adjacent to the existing activated sludge system.
      - (b) Install one additional blower in Building 45.
      - (c) Construct one new 458,000 gallon (60-foot-diameter) anaerobic digester with duo-deck floating cover, and one exterior draft tube mixer.
      - (d) Construct a basement addition to Building 60 to house two mixer water recirculation pumps, mixer sump pumping station, foam suppression chemical pumps, gas safety equipment, two rotary lobe transfer pumps, and two draft tube mixers with water heated jackets.
5. Submit a draft Basis of Design Report to OWNER for review. Participate in one meeting with OWNER to discuss comments and incorporate the comments, as appropriate. Finalize and submit one electronic portable document format (PDF) file of the report to OWNER.
6. Prepare draft Bidding Documents using Engineers Joint Contract Documents Committee C-700 Standard General Conditions of the Construction Contract, 2018 edition, technical specifications, and engineering drawings for the project to be competitively bid as a single prime construction contract with two bid alternatives.

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7. Provide 60 percent draft Bidding Documents to OWNER for review. Prepare an updated OPCC using the Bidding Documents. Attend a 60 percent design review meeting with OWNER and incorporate OWNER's comments, as appropriate.
8. Provide 90 percent draft Bidding Documents to OWNER for review. Prepare an updated OPCC using the Bidding Documents. Attend a 90 percent design review meeting with OWNER and incorporate OWNER's comments, as appropriate.
9. Prepare and submit Illinois Environmental Protection Agency (IEPA), Federal Emergency Management Agency, Kankakee County, and OWNER's Stormwater and Erosion Control permitting associated with construction at the WWTP site.
10. Submit up to three paper copies and one electronic copy in PDF of the draft Bidding Documents to OWNER for review.
11. Prepare and assist OWNER in submitting one application for a construction permit required by the IEPA. Submit drawings and specifications to the IEPA for approval.
12. Prepare and submit the application for an IEPA Water Pollution Control Loan Program loan and communicate with IEPA funding staff.
13. Incorporate OWNER's and IEPA's review comments, as appropriate, into the Bidding Documents. Submit up to three paper copies and a PDF file of the final Bidding Documents to OWNER. Prepare an updated OPCC using the final Bidding Documents. Prepare an updated OPCC using the final Bidding Documents.

#### Bidding-Related Services

1. Distribute Bidding Documents electronically through QuestCDN, available at [www.strand.com](http://www.strand.com) and [www.questcdn.com](http://www.questcdn.com). Submit Advertisement to Bid to OWNER for publishing.
2. Attend one prebid meeting with OWNER and potential bidders.
3. Prepare addenda and answer questions during bidding.
4. Attend bid opening, and tabulate and analyze bid results.
5. Submit bid certifications for the IEPA Water Pollution Control Loan Program loan and communicate with IEPA funding staff. Assist OWNER in the award of the Construction Contract.
6. Prepare three sets of Contract Documents for signature.

#### **Service Elements Not Included**

The following services are not included in this Agreement. If such services are required, they will be provided through an amendment to this Agreement or through a separate agreement.

1. Additional Site Visits and/or Meetings: Additional OWNER-required site visits or meetings.

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2. Archaeological or Botanical Investigations: ENGINEER will assist OWNER in engaging the services of an archaeologist or botanist, if required, to perform the field investigations necessary for agency review.
3. Bid Phasing: Any services involved in providing bidding phases.
4. Construction-Related Services: Any services involved in performing construction-related services.
5. Flood Studies: Any services involved in performing flood and floodway studies.
6. Geotechnical Engineering: Geotechnical engineering information will be required and provided through OWNER and OWNER’s geotechnical consultant. ENGINEER will assist OWNER with defining initial scope of geotechnical information that is required to allow OWNER to procure geotechnical engineering services.
7. Land and Easement Surveys/Procurement: Any services of this type including, but not limited to, a record search, field work, preparation of legal descriptions, or assistance to OWNER for securing land rights necessary for the project.
8. Preparation for and/or Appearance in Litigation on Behalf of OWNER: Any services related to litigation.
9. Revising Designs, Drawings, Specifications, and Documents: Any services required after these items have been previously approved by state or federal regulatory agencies, because of a change in project scope or where such revisions are necessary to comply with changed state and federal regulations that are put in force after Services have been partially completed.
10. Services Furnished During Readvertisement for Bids, if Ordered by OWNER: If a Contract is not awarded pursuant to the original bids.
11. Services Related to Buried Wastes and Contamination: Should buried solid, liquid, or potentially hazardous wastes or subsurface or soil contamination be uncovered at the site, follow-up investigations may be required to identify the nature and extent of such wastes or subsurface soil or groundwater contamination and to determine appropriate methods for managing of such wastes or contamination and for follow-up monitoring.

**Compensation**

OWNER shall compensate ENGINEER for Services under this Agreement on an hourly rate basis plus expenses a fee not to exceed \$4,200,000 allocated as follows:

<u>Scope Item</u>	<u>Compensation</u>
Design Services	\$4,160,000
Bidding-Related Services	\$ 40,000
Total	<u>\$4,200,000</u>

Monthly invoices will include Services performed, percentage of Services performed, and an hourly breakdown by discipline of Services performed for the amount of the monthly invoice.



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Expenses incurred such as those for travel, meals, printing, postage, copies, computer, electronic communication, and long distance telephone calls will be billed at actual cost.

Only sales taxes or other taxes on Services that are in effect at the time this Agreement is executed are included in the Compensation. If the tax laws are subsequently changed by legislation during the life of this Agreement, this Agreement will be adjusted to reflect the net change.

The fee for the Services is based on wage scale/hourly billing rates, adjusted annually on July 1, and as summarized in Table 1, that anticipates the Services will be completed as indicated. Should the completion time be extended, it may be cause for an adjustment in the fee that reflects any wage scale adjustments made.

**Table 1**

Classification	Billing Rate Per Hour
Principal	\$385
Engineer VI	\$305
Engineer V	\$290
Engineer IV	\$245
Engineer III	\$205
Engineer II	\$165
Engineer I	\$125
Architect II	\$200
Architect I	\$145
Technician	\$145
Office Production	\$120

The fee will not be exceeded without prior notice to and agreement by OWNER but may be adjusted for time delays, time extensions, amendments, or changes in the **Scope of Services** not caused by ENGINEER. Any adjustments will be negotiated based on ENGINEER’s increase or decrease in costs caused by delays, extensions, amendments, or changes.

**Schedule**

Services will begin upon execution of this Agreement, which is anticipated the week of January 22, 2024. Design Services are scheduled for completion on March 20, 2026. Bidding-Related Services are scheduled for completion on December 18, 2026.

**Standard of Care**

The Standard of Care for all Services performed or furnished by ENGINEER under this Agreement will be the care and skill ordinarily used by members of ENGINEER’s profession practicing under similar circumstances at the same time and in the same locality. ENGINEER makes no warranties, express or implied, under this Agreement or otherwise, in connection with ENGINEER’s Services.

**OWNER’s Responsibilities**

1. Assist ENGINEER by placing at ENGINEER’s disposal all available information pertinent to this project including previous reports, previous drawings and specifications, and any other data relative to the scope of this project.

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5. Provide all legal services as may be required for the development of this project.
6. Retain the services of a soils consultant to provide any necessary geotechnical evaluation and recommendations.
7. Pay all permit and plan review fees payable to regulatory agencies.

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**Remedies**

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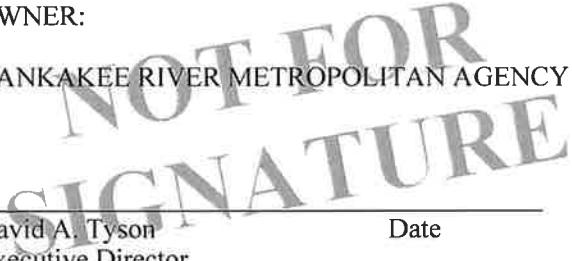
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Joseph M. Bunker  
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