

## **AGENDA**

### **KANKAKEE RIVER METROPOLITAN AGENCY MEETING**

**Thursday, December 19, 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. November 21, 2024 – 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. Flows Graphs
  - D. Communications
- V. Old Business**
  - A. Update on Engineering for Phase 1, Phase 2, Phase 3
    1. Projections of Phase 1, Phase 2, and Phase 3 impacts on the rates for members municipalities
- VI. New Business**
  - A. Approval of Memorandum of Understanding regarding the Local 399 Collective Bargaining Agreement
- VII. Executive Session**
  - A. Personnel & Probable or Imminent Litigation
- VIII. Next Meeting**

**Thursday, January 23, 2024 (9:00 AM in KRMA Boardroom)**

**KANKAKEE RIVER METROPOLITAN AGENCY**  
**MINUTES**  
**November 21, 2024 – 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  
Bryan Kennedy, Assistant Superintendent  
Richard Tyson, Operation Manager

**Other:**

Dan Small, Engineer, Strand Associates  
Tara Latz, Financial Director, Village of Bourbonnais  
Zachary Newton, Superintendent of ESU, City of Kankakee  
Ryan McGinnis, Lab Operations Manager, 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 Mayor Brian Stump, Alderman Larry Osenga, Financial Director Robert Romo absent. Alternate Alderman David Crawford, City of Kankakee, sitting in for Alderman Larry Osenga for deciding vote.

II. **Public Comment**

None

III. **Approval of Board Minutes October 24, 2024 – Regular Board Meeting**

Motion to approve the October 24, 2024, Regular Board Meeting minutes was made by: Dir Hunter and seconded by Dir Swanson. All board members were present, and Alternate David Crawford voted in favor of, Dir Brian Stump, Dir Robert Romo, and Dir Larry Osenga absent. Motion Carried.

IV. **Reports**

A. **Operations & Maintenance Report**

**Monthly Report**

Chairman Curtis acknowledge Superintendent Strother article that was written in the Kankakee Daily Journal. Art presented the MOR. He references Attachment C: Renewal Permit from IEPA. He informed them that certain people who will get notification of any comments from the IEPA. He also stated the public has to be made aware of the renewal and they have the opportunity to give their opinions and thoughts of the renewal. He informed the board that our Permit last 5 years and it expires on February 28, 2025. Art thanked Dan Small, for assisting with the current Permit. Dir Hunter asked do you anticipate any adverse comments from the public and/or any other entity.

Art stated landfills and farmers may have a problem with sludge being put on farmland and also PFAS an issue for industries and landfills. Dan Smalls added, we should get a draft, therefore, we will bring it to the board. He also stated he do not expect major changes within in the permit, however, PFAS will be a new item, changes to the NARP Program, and making sure the CMOM language have not changed and, within the permit. Art also informed the board that the season for chlorination ended October 31, 2024, unfortunately, we had a violation of fecal for October 31, 2025. We do not have to chlorinate again until May 1, 2025. Dir Hunter asked is there a regiment and protocol for the procedure. Art replied, yes and he has also given an explanation to the State. And the State Rep. and they informed him that it is not about the number of lbs., it is about the frequency, how often it is being done. Dir Swanson asked questions about the increase in TSS. Art replied, we are still investigating the spikes in TSS. There was open discussion regarding low flows and how it effects our BOD concentration.

B. **Executive Director Report**

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

Exec. Dir. Dave Tyson presented yearly utility usage. Exec Dir Tyson stated we still have not received a month-to-month Electric bill. All other utilities are in line.

2. **Hauled In Waste Summary**

Exec. Dir. Tyson said hauled in waste is down this month. Liberty has decreased their loads; however, we are still above what we budget. Also, in the prior year around this time Liberty decrease their loads. We have a site visit with Liberty the beginning of year and we will converse with them to see what their plans are.

3. **Operations Report**

Exec Dir Dave Tyson informed the board, he will be sending out all the municipalities the new CMOM Report that needs to be complete and returned to us by February 1, 2025, to stay compliance with our NPDES Permit. Art informed the board that KRMA has a schedule inspection for December 6, 2024.

C. **Financial Report**

1. **Reports**

Karen presented the financial statements. Net position: cash is still strong. Statement of Revenue/Expenses: hauled in waste is above the month and fiscal budget. Change of net position is above our monthly budget.

2. **Flows Graphs**

Kankakee average percent flows is 65.649% which is above the estimate budget flows. Therefore, for Bradley and Bourbonnais, will have a surplus.

D. **Communications**

None

V. **Old Business**

A. **Update on Engineering for Phase 1, Phase 2, Phase 3**

Dan Small stated everything is on track. We have had a several meetings with KRMA. We are wrapping up Phase 1 and getting ready for shovel ready purposes for grant discussion. Also 2 months into the Phase 2 project. For the January and/or February meeting we will have a cost update/change.

Bradley property.

1. **Projections of Phase 1, Phase 2, and Phase 3 impacts on the rates for the members municipalities**

None

VI. **New Business**

A. **Local 399 Health & Welfare Rate Increase for 2024-2025 contract year effective for December 1, 2024**

Exec Dir Tyson informed the board that Local 399 Health and Welfare is increase their Health and Welfare to 5.3% rate increase effective for December 1, 2024, for the Union Employees. Motion to accept the new rate of \$1369 a month versus the current rate of \$1300 a month effective for December 1, 2024, was made by Dir Swanson and seconded by Vice Chairman Schore. All board members were present, and Alternate David Crawford voted in favor of, Dir Brian Stump, Dir Robert Romo, and Dir Larry Osenga absent. Motion Carried.

B. **Resolution Ratifying and Approving Purchase of New Wilo Pump**

Exec Dir Tyson informed the board this is a dewatering pump we need. It is covered in our line item in maintenance. It is an emergency situation. Motion to Authorize the Resolution Ratifying and Approving the Purchase of a New Wilo Pump was made by Vice Chairman Schore and seconded by Dir Swanson. All board

members were present, and Alternate David Crawford voted in favor of, Dir Brian Stump, Dir Robert Romo, and Dir Larry Osenga absent. Motion Carried.

**Vice Chairman Schore acknowledge Exec Dir Tyson and Superintendent Strother for coming and presenting at the Village of Bourbonnais Utility Committee Meeting the explanation and reasoning for the potential expansion for KRMA.**

**C. Review and Approval of Gas Pricing**

Exec Dir Tyson recommended that we enter into a four-year contract with our current Gas Company, Engie Company at 4.49 cents per therm. which is cheaper than what we are currently paying. Motion to accept contract after legal review was made by Dir Hunter and seconded by Vice Chairman Schore. All board members were present, and Alternate David Crawford voted in favor of, Dir Brian Stump, Dir Robert Romo, and Dir Larry Osenga absent. Motion Carried.

**D. Recommendation of Geotechnical work for Design of Plant**

Exec Dir Tyson informed the board that there are certain boring and ground testing that has to be for Phase 1, 2, and 3 in order for them to complete their work. Strand Associates complete the BID Specifications and retrieve four Bids.' Dan sent them to us for review. Exec Dir Tyson recommend SEECO who had the lowest bid for the Geotechnical work. Motion to accept the low Bid from SEECO and not to exceed \$46,515.00 was made by Dir Swanson and seconded by Dir Crawford. All board members were present, and Alternate David Crawford voted in favor of, Dir Brian Stump, Dir Robert Romo, and Dir Larry Osenga absent. Motion Carried.

**VII. Executive Session**

**Personnel & Probable or Imminent Litigation**

None

**VIII. Next Meeting**

Next Regular Board Meeting- **Thursday, December 19, 2024 (9:00 A.M. at KRMA Board Room)**

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



*Providing Wastewater Treatment to the Kankakee River Valley*



**Monthly Operations Report**

**November 2024**

## KRMA's NOVEMBER HIGHLIGHTS:

The KRMA staff of Lead Operators and EIC Tech assist several vendors and Strand staff with accessing the facility and facility equipment as to the needs for repair or replacement. Some of the things addressed were Controls and instrumentation. Screw pumps -Vulcan, storage tanks- Aquastore Inc., boilers-cleaver Brook. Strand had a three (3) day site visit. KRMA and Strand staff made visits to other facility for ideas.

The O&M specialist continue to address aging equipment to ensure facility meet requirement of the IEPA NPDES permit.

The month of November, the Agency had no 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** Details daily flow rates.

**Table 2.1**

*Plant Flows*

Municipality	Plant Influent	Kankakee	Bourbonnais	Bradley	Aroma Park
Total Flow (MGD)	342.13	221.62	82.732	36.970	0.812
Daily Average Flow (MGD)	11.40	7.39	2.758	1.232	0.027

### 3.0 EFFLUENT QUALITY

**Table 3.1** Summarizes the effluent quality data.

**Table 3.1**

*Effluent Quality*

	IEPA Limits	Effluent Average
<b>Biochemical Oxygen Demand (BOD) – Monthly Average</b>	<b>20 mg/l</b>	<b>4 mg/l</b>
<b>Total Suspended Solids (TSS) - Monthly Average</b>	<b>25 mg/l</b>	<b>13 mg/l</b>
<b>PH</b>	<b>6-9 SU</b>	<b>7.09 SU</b>
<b>Chlorine Residual</b>	<b>0.020 mg/l</b>	<b>N/A</b>
<b>Fecal Coliform</b>	<b>400/100 ml</b>	<b>N/A</b>

### ODOR ISSUES:

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

### 4.0 PERSONNEL

The Agency would like to Congratulate these KRMA employees for November 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.

Dan Combs, O & M Operator Specialist, 18 years

Bryan Kennedy, Assistant Superintendent, 8 years

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

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: 649  
Hours of Scheduled Work Orders Performed: 392.98

**6.0 SLUDGE HANDLING**

Start Date: 11/01/2024  
End Date: 11/30/2024

Gallons of sludge produced and sent to thickening: 2,599,572.00  
Gallons of sludge put into storage after thickening: 1,429,000.00  
Sludge removed from the plant for land application: 0.00  
Sludge remaining in storage: 4,200,200.00

**7.0 WATER USAGE**

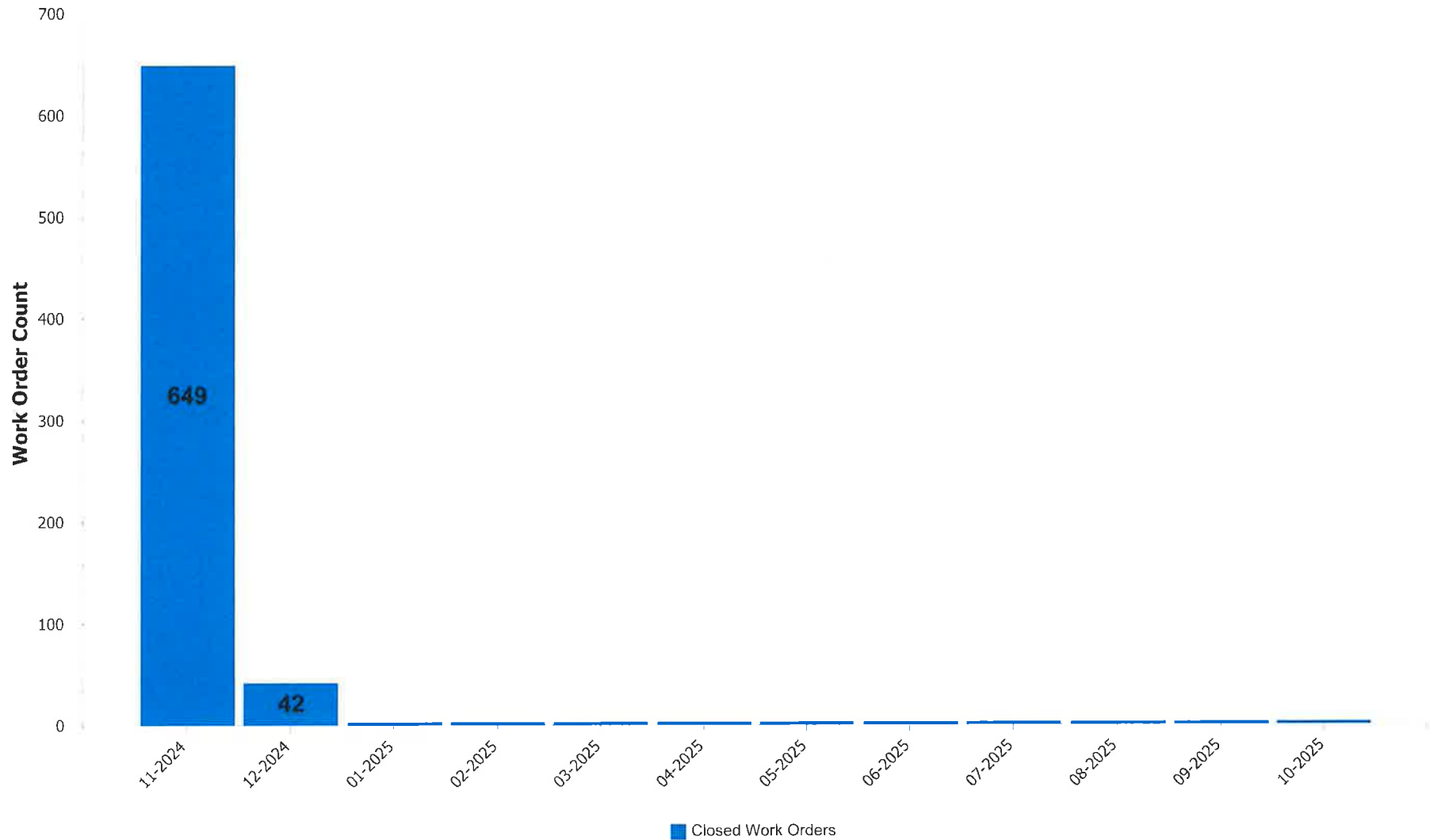
NOVEMBER 2024 ( DAYS): CU FT= GALS. =

NUMBER OF DAYS IN THE BILLING CYCLE: BILL NOT GENERATED



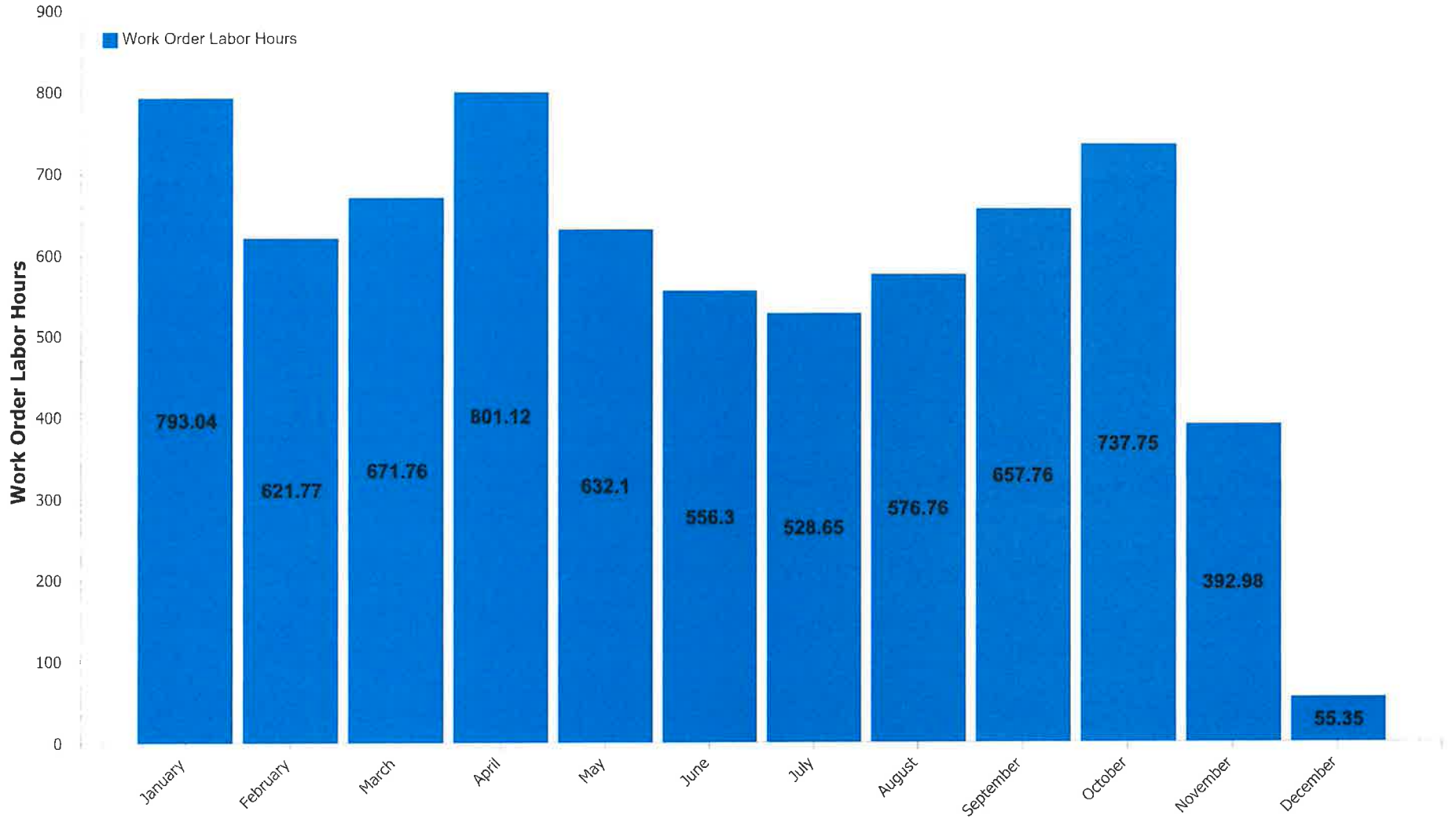
## Work Orders Closed By Month

From November, 2024 to October, 2025



# Work Order Labor Hours by Month

2024



# KANKAKEE RIVER METRO AGENCY Wastewater Report, November 2024

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.

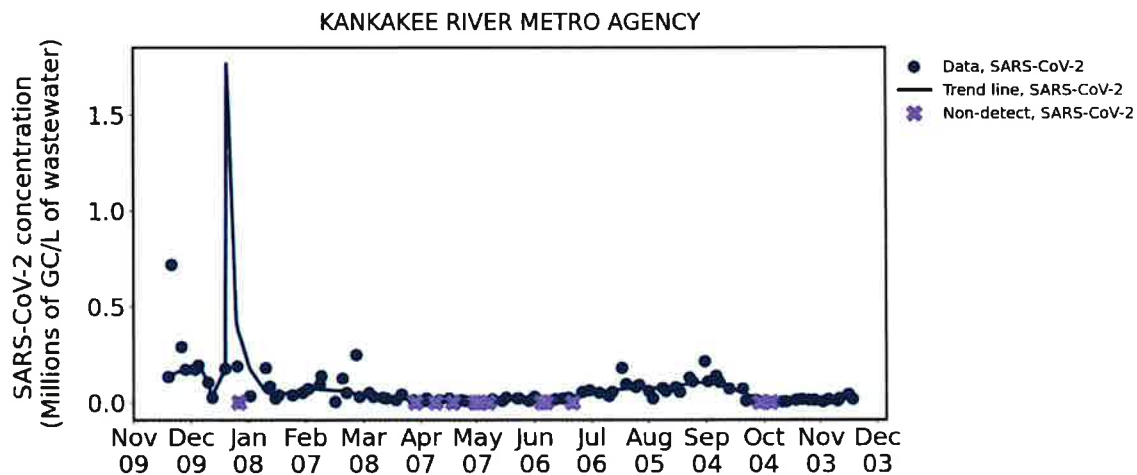


Figure 1. Time series plot of SARS-CoV-2 viral concentrations in millions of gene copies per liter (GC/L) of wastewater. Historical data can be found on the IWSS dashboard, link above.

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

Date	SARS-CoV-2 (GC/L)
2024-11-20	18,000
2024-11-18	44,550
2024-11-13	21,000
2024-11-12	10,425
2024-11-07	18,225

2024-11-04	4,800
2024-10-31	12,450
2024-10-28	13,125

## SARS-CoV-2 LINEAGES IN WASTEWATER

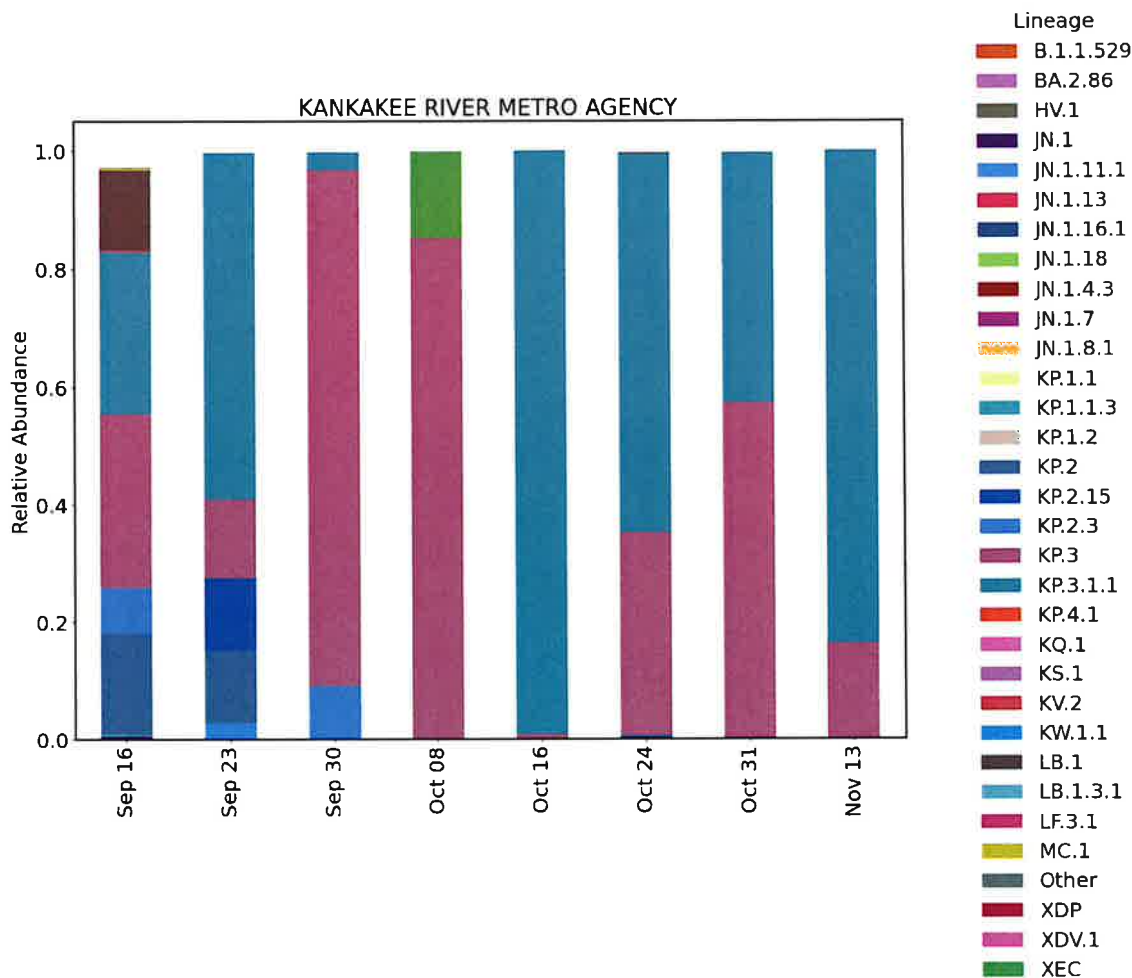


Figure 2. Stacked barplot showing the relative abundances of SARS-CoV-2 lineages in wastewater samples. All lineages in the legend, excluding "Other," are associated with Omicron. The most recently available two months worth of data are shown.

## 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.

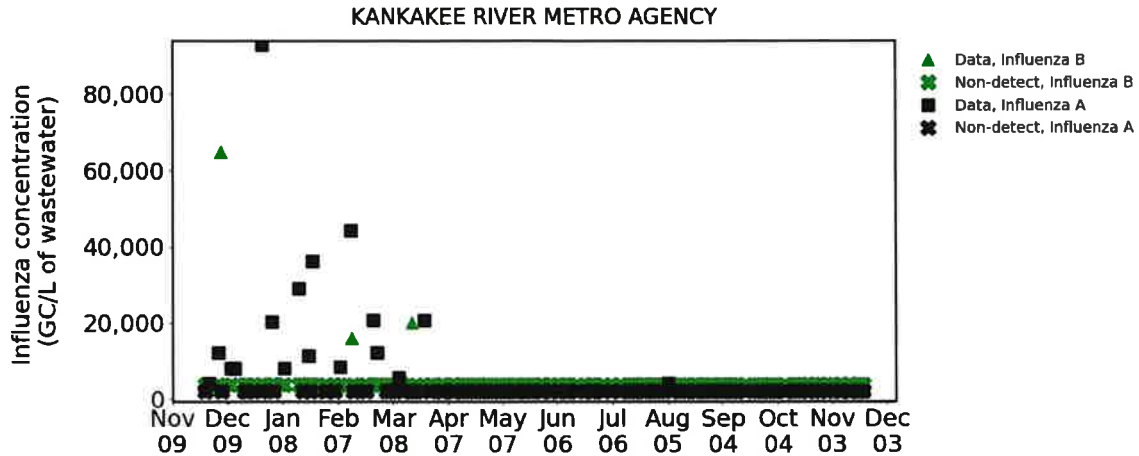


Figure 3. Time series plot of Influenza A/B viral concentrations in gene copies per liter (GC/L) of wastewater. Historical data can be found on the IWSS dashboard, link above.

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

Date	Influenza A (GC/L)	Influenza B (GC/L)
2024-11-20	Non-detect	Non-detect
2024-11-18	Non-detect	Non-detect
2024-11-13	Non-detect	Non-detect
2024-11-12	Non-detect	Non-detect
2024-11-07	Non-detect	Non-detect
2024-11-04	Non-detect	Non-detect
2024-10-31	Non-detect	Non-detect
2024-10-28	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.

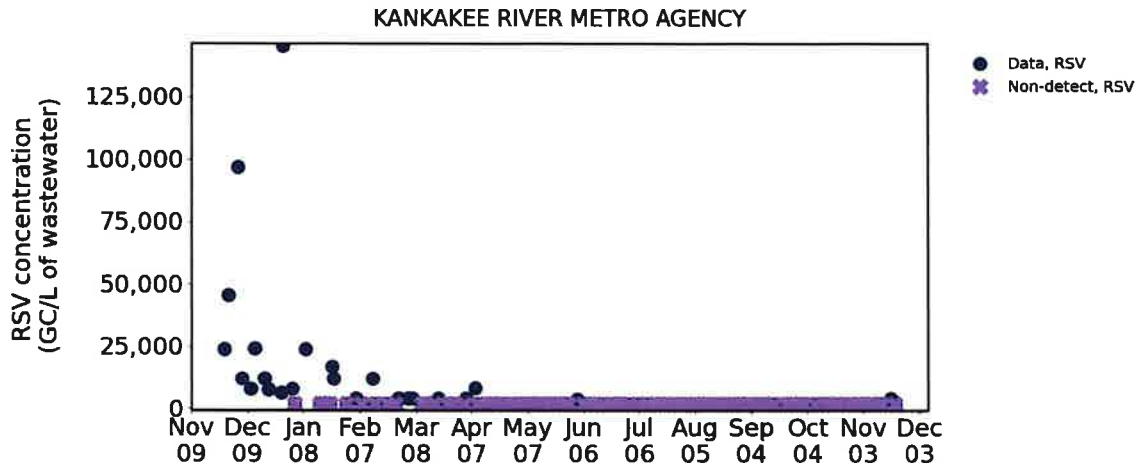


Figure 4. Time series plot of RSV viral concentrations in gene copies per liter (GC/L) of wastewater. Historical data can be found on the IWSS dashboard, link above.

## RSV SAMPLING RESULTS - LAST 8 SAMPLES

Date	RSV (GC/L)
2024-11-20	Non-detect
2024-11-18	4,050
2024-11-13	Non-detect
2024-11-12	Non-detect
2024-11-07	Non-detect
2024-11-04	Non-detect
2024-10-31	Non-detect
2024-10-28	Non-detect

# Guide to Interpreting Data on SARS-CoV-2, Influenza, & Respiratory Syncytial Virus (RSV) Gene Copies in Wastewater Samples

## What do the results mean?

There are several factors to consider when interpreting viral data in wastewater. The rate, magnitude, and duration of shedding may vary from one person to another and from virus to virus, thus how or even whether it is possible to translate viral levels in wastewater into precise community health metrics is an open scientific question. It is only appropriate to monitor and observe the trends of viral gene copies detected in a community over time. The data presented in tables, graphs, and trend assessments show the concentration of RNA copies in the wastewater area from the community where the wastewater was collected. A significant increase in viral gene copies over time is an indicator that cases may be increasing in the community. Wastewater data should not be interpreted in isolation but rather considered alongside other public health metrics.

## What does the number that is reported on a sample day mean?

It is a measure of how many gene copies are present in a sample, typically reported as gene copies per liter of wastewater (GC/L). Samples are typically obtained from municipal wastewater treatment plants and reflect inputs of viral material shed by the community served by the treatment plant. This number does not indicate gene copies per person or population.

## How are the gene copies measured in the wastewater?

Wastewater samples are first processed to concentrate and isolate genetic material (RNA) that is present in the sample. RNA sequences specific to SARS-CoV-2, influenza A & B, and RSV are then detected and quantified using a molecular biology tool called digital polymerase chain reaction (dPCR). During dPCR, a targeted segment of the RNA is converted to DNA and then amplified (copied many times) so it can be detected by laboratory instruments. Specific methods for sample processing and PCR-based quantification differ among wastewater monitoring projects and analytical laboratories.

## What does it mean if a data point for a sample is 0 or a non-detect?

A non-detect means that the amount of SARS-CoV-2, influenza, or RSV RNA in the wastewater sample is below the level that can be reliably detected by the quantification methods used in a given laboratory. A determination of non-detect does not necessarily mean that no viral RNA is present in the sample or in the system – rather that the levels are low enough that they cannot be reliably determined. In some cases, other components of wastewater may interfere with individual measurements, leading to an incorrect non-detection similar to false negatives that can occur from at-home and clinical testing. A non-detect does not necessarily mean that there are no infected individuals within the associated community.

## What is the viral gene copy trend line?

The trend line is calculated using Locally Weighted Scatterplot Smoothing (LOWESS), a local regression analysis. It allows us to see the change in trend over time by fitting a curve to the data. This method is useful because it reduces the influence of outliers, and wastewater data can be highly variable. LOWESS is a more complex extension of the moving average.

## **Does the number of gene copies in a sample tell us how many people are sick?**

There are not presently agreed-upon methods for translating concentration of SARS-CoV-2, influenza, or RSV genetic material in wastewater into a measure of how many people, or even what percentage of a community, have COVID-19, flu, or RSV, respectively. Variability between different wastewater sources, treatment facilities, and communities makes it difficult to translate the SARS-CoV-2, influenza, or RSV concentrations into a measure of how many people are infected in the community. However, an upward or downward trend in viral gene copies per liter of wastewater generally suggests a similar trend in the number of people infected within a given community.

## **Can I compare the number of gene copies in a sample from site to site?**

Because each community has a different mix of wastewater inputs, different populations, and different wastewater systems, it is not appropriate to compare viral gene copy numbers among communities. Instead, trends in SARS-CoV-2, influenza, or RSV concentrations from a specific community over time can be used to help understand whether cases or hospitalizations are likely to increase or decrease in the community. Sample collection methods and mechanisms, collection times, and sample variability are other factors that discourage cross-site comparison.

## **Can I compare the gene copies of different pathogens to one another?**

Because each pathogen is distinct, it is not appropriate to compare their viral gene copy numbers, even at the same site. Instead, trends in SARS-CoV-2, influenza, or RSV concentrations (increasing/decreasing) can be used to understand if cases or hospitalizations for each pathogen are likely to increase or decrease in the community.

## **Guide to Interpreting Data on SARS-CoV-2 Lineages in Wastewater Samples**

### **What are lineages and how are they determined?**

Wastewater is sequenced to determine the variants of SARS-CoV-2 virus present in a sample, a proxy for circulating variants in the community. Our sequencing strategy utilizes the entire genome of SARS-CoV-2 to identify mutations that are diagnostic of variants of the virus. Full genome coverage gives us better resolution for distinguishing variants, especially those very similar to each other. Variant names and lineage relationships are determined by the World Health Organization (WHO).

Variant: A genome that contains a particular set of mutations.

Mutation: A change in the genetic information introduced during viral replication.

Lineage: A collection of variants all related to each other based on analysis of the virus genomic sequence.

### **What is the sequencing plot showing me?**

This plot is displaying the relative abundance, or proportion, of lineages found in a wastewater sample collected on a particular date. This plot was generated after comparing sample sequences to a SARS-CoV-2 reference genome and identifying characteristic mutations that are



associated with different variants. We then calculate the percentage of each variant present in the sample. This plot summarizes the variant detections; lineages are displayed, as there are often many variants detected that are in the same lineage.

### **What do the results mean?**

The SARS-CoV-2 variants identified in a particular plant's wastewater can provide insight into the variants circulating in the population that the plant serves. This information can be useful, as there tend to be fewer clinical sequences, and those might only reflect a small proportion of the community feeling sick enough to pursue testing. The wastewater samples passively capture the virus shed in wastewater from the community where the wastewater was collected, not just those who are symptomatic. Wastewater data is not interpreted in isolation but rather considered alongside other public health metrics.

### **Does the number or type of lineages tell us how many people are sick?**

We cannot tell how many people are sick from the lineages observed in the wastewater. We can only see relative proportions of the variants that are present in the community served by the wastewater treatment plant. We do pay attention to specific mutations that have been identified as having clinical implications (e.g., for effectiveness of medications or disease severity).

### **Can I compare the lineages in a sample from site to site?**

Yes. We often detect variants in a particular plant first, and then see the relative abundance change over time, with certain lineages becoming more prevalent across the state from plant to plant. We compare these detections to sequence data from across the United States and the world.

### **Why are the dates of the sequencing data not as current as the gene copies data?**

Sequencing results are available about two weeks after sample collection. This is because the quantification of SARS-CoV-2 levels by dPCR happens first, and then genetic material (RNA) is sent for sequencing. Additionally, samples then take multiple days to run on the sequencer and computational processing of sequences takes additional time before results are available.

### **Why do the lineages in the legend change periodically?**

The lineages shown in the sequencing plot of this report are in alignment with the CDC's national genomic surveillance system. As the SARS-CoV-2 virus mutates, new variants emerge. This means there are regularly new variants that contribute to the spread of COVID-19. Some variants will disappear while others will continue to spread and even replace others as the dominant variant. These monthly reports reflect those changes as we continue to monitor for emerging variants of concern.

# **ATTACHMENT**

## **A**

# DMR Monthly Report

11/1/2024 to 11/30/2024

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
11/1/2024	9.57	7.05	17.00		1357.00				
11/2/2024	8.78		14.00	16.00	1026.00	1205.00	4.00	5.00	293.00
11/3/2024	8.70		15.00		1088.00		3.00		218.00
11/4/2024	11.16	7.22	29.00		2698.00		4.00		372.00
11/5/2024	18.94	7.08	17.00		2685.00		5.00		790.00
11/6/2024	18.96	7.02	10.00		1581.00		5.00		791.00
11/7/2024	13.14	7.29	16.00		1754.00		7.00		767.00
11/8/2024	11.33	7.28	14.00		1322.00				
11/9/2024	10.62		12.00	16.00	1062.00	1742.00	3.00	5.00	266.00
11/10/2024	11.26		10.00		939.00		2.00		188.00
11/11/2024	11.27		12.00		1128.00		5.00		470.00
11/12/2024	10.45	7.08	11.00		958.00		5.00		436.00
11/13/2024	10.83	7.10	13.00		1174.00		5.00		451.00
11/14/2024	11.74	7.15	13.00		1272.00		5.00		489.00
11/15/2024	11.75	7.15	14.00		1372.00				
11/16/2024	10.80		14.00	12.00	1261.00	1158.00	3.00	4.00	270.00
11/17/2024	10.05		10.00		838.00		3.00		251.00
11/18/2024	10.76	6.89	16.00		1436.00		4.00		359.00
11/19/2024	11.62	7.22	13.00		1260.00		4.00		388.00
11/20/2024	11.64	6.99	15.00		1456.00		5.00		485.00
11/21/2024	11.98	6.90	20.00		1998.00		5.00		499.00
11/22/2024	12.09	7.05	13.00		1310.00				
11/23/2024	12.10		6.00	13.00	605.00	1272.00	3.00	4.00	303.00
11/24/2024	11.00		6.00		550.00		2.00		183.00
11/25/2024	10.62	7.09	9.00		797.00		4.00		354.00
11/26/2024	10.63	6.99	11.00		975.00		5.00		443.00
11/27/2024	10.43	7.08	4.00		348.00				
11/28/2024	10.35		6.00		518.00				
11/29/2024	9.90		12.00		991.00				
11/30/2024	9.70		10.00	8.00	809.00	713.00		4.00	

Var #
Date
11/1/2024
11/2/2024
11/3/2024
11/4/2024
11/5/2024
11/6/2024
11/7/2024
11/8/2024
11/9/2024
11/10/2024
11/11/2024
11/12/2024
11/13/2024
11/14/2024
11/15/2024
11/16/2024
11/17/2024
11/18/2024
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11/21/2024
11/22/2024
11/23/2024
11/24/2024
11/25/2024
11/26/2024
11/27/2024
11/28/2024
11/29/2024
11/30/2024

Minimum	8.70	<b>6.89</b>	4.00	8.00	348.00	713.00	2.00	4.00	183.00
Maximum	18.96	<b>7.29</b>	29.00	<b>16.00</b>	2698.00	<b>1742.00</b>	7.00	<b>5.00</b>	791.00
Average	11.40	7.09	<b>13.00</b>	13.00	<b>1219.00</b>	1218.00	<b>4.00</b>	4.00	<b>412.00</b>
Sum	342.13	127.63	382.00	66.00	36570.00	6089.00	91.00	21.00	9067.00

Minimum
Maximum
Average
Sum

<b>Limit</b>	<b>Range 6-9</b>	<b>25</b>	<b>45</b>	<b>9383</b>	<b>16889</b>	<b>20</b>	<b>40</b>	<b>7506</b>
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<b>Limit</b>
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# DMR Monthly Report

11/1/2024 to 11/30/2024

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
LBS/Day	mg/L	#/100ml	MGD	mg/L	LBS/D	mg/L	LBS/D	%
			9.57			308.00	24580.00	
353.00			8.78	201.00	14723.00	473.00	34647.00	98.00
			8.70	157.00	11393.00	170.00	12336.00	98.00
			11.16	96.00	8931.00	906.00	84288.00	96.00
			18.94	92.00	14531.00	181.00	28588.00	95.00
			18.96	234.00	36996.00	260.00	41106.00	98.00
			13.14	223.00	24445.00	1212.00	132861.00	97.00
			11.33			143.00	13506.00	
534.00			10.62	227.00	20096.00	334.00	29569.00	99.00
			11.26	134.00	12580.00	138.00	12956.00	99.00
			11.27	211.00	19832.00	375.00	35247.00	98.00
			10.45	282.00	24570.00	378.00	32934.00	98.00
			10.83	233.00	21037.00	240.00	21669.00	98.00
			11.74	217.00	21240.00	135.00	13214.00	98.00
			11.75			310.00	30381.00	
384.00			10.80	114.00	10269.00	750.00	67560.00	97.00
			10.05	155.00	12993.00	354.00	29674.00	98.00
			10.76	197.00	17685.00	1780.00	159794.00	98.00
			11.62	310.00	30053.00	692.00	67085.00	99.00
			11.64	257.00	24947.00	1526.00	148128.00	98.00
			11.98	222.00	22173.00	468.00	46744.00	98.00
			12.09			512.00	51608.00	
381.00			12.10	234.00	23614.00	410.00	41375.00	99.00
			11.00	188.00	17246.00	248.00	22749.00	99.00
			10.62	210.00	18591.00	284.00	25142.00	98.00
			10.63	220.00	19504.00	594.00	52661.00	98.00
			10.43			308.00	26784.00	
			10.35			214.00	18467.00	
			9.90			212.00	17504.00	
327.00			9.70			108.00	8737.00	

Var #	456
Date	TSS REMOVAL %
11/1/2024	94.00
11/2/2024	97.00
11/3/2024	91.00
11/4/2024	97.00
11/5/2024	91.00
11/6/2024	96.00
11/7/2024	99.00
11/8/2024	90.00
11/9/2024	96.00
11/10/2024	93.00
11/11/2024	97.00
11/12/2024	97.00
11/13/2024	95.00
11/14/2024	90.00
11/15/2024	95.00
11/16/2024	98.00
11/17/2024	97.00
11/18/2024	99.00
11/19/2024	98.00
11/20/2024	99.00
11/21/2024	96.00
11/22/2024	97.00
11/23/2024	99.00
11/24/2024	98.00
11/25/2024	97.00
11/26/2024	98.00
11/27/2024	99.00
11/28/2024	97.00
11/29/2024	94.00
11/30/2024	91.00

327.00			8.70	92.00	8931.00	108.00	8737.00	95.00
534.00			18.96	310.00	36996.00	1780.00	159794.00	99.00
396.00			11.41	201.00	19430.00	467.00	44396.00	98.00
1979.00			342.13	4414.00	427449.00	14023.00	#####	2151.00

Minimum	90.00
Maximum	99.00
Average	
Sum	2875.00

15012	0.05	400						
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Limit	
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# DMR Monthly Report

11/1/2024 to 11/30/2024

12/04/2024 09:07:20 AM

1040	1041	1042	1043	255	297	953	1023
North Effluent DO - SCADA mg/l	South Effluent DO - SCADA mg/l	Daily Average Effluent DO mg/l	Effluent DO weekly average mg/l	FINAL EFF NH3N mg/L	Eff Nitrogen # /day	Eff_Total Phosphorus- TP(TNT) mg/l	Effluent Total Nitrogen mg/l
7.64	7.90	7.77					
7.66	7.91	7.79	7.48				
7.68	7.92	7.80		.08	6.11	1.78	
7.08	7.32	7.20		.12	11.54	2.33	
7.36	7.56	7.46		.07	11.47	1.94	
7.65	7.80	7.73		.09	14.59	1.04	9.04
7.53	7.79	7.66		.08	8.71	2.03	
7.76	8.00	7.88					
7.85	8.07	7.96	7.67				
8.13	8.33	8.23					
8.24	8.44	8.34		.05	4.70	.36	
8.20	8.40	8.30		.05	4.36	.34	
7.83	8.05	7.94		.05	4.51	.37	18.14
7.83	8.08	7.96		.05	4.89	.30	
7.96	8.20	8.08					
8.17	8.37	8.27	8.16				
8.30	8.45	8.38		.05	4.19	.28	
7.93	8.10	8.02		.07	6.11	.50	12.64
7.89	8.06	7.98		.05	4.85	.33	
8.02	8.19	8.11		.09	9.21	.27	
8.11	8.31	8.21		.49	48.74	.22	
8.26	8.45	8.36					
8.12	8.31	8.22	8.18				
8.25	8.43	8.34		.11	9.72	.53	
8.48	8.65	8.57		.05	4.43	.39	
8.22	8.41	8.32		.08	7.39	.36	14.80
8.25	8.44	8.35					
8.74	8.94	8.84					
9.04	9.22	9.13					
9.22	9.40	9.31	8.69				

Var #
Date
11/1/2024
11/2/2024
11/3/2024
11/4/2024
11/5/2024
11/6/2024
11/7/2024
11/8/2024
11/9/2024
11/10/2024
11/11/2024
11/12/2024
11/13/2024
11/14/2024
11/15/2024
11/16/2024
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11/24/2024
11/25/2024
11/26/2024
11/27/2024
11/28/2024
11/29/2024
11/30/2024

7.08	7.32	<b>7.20</b>	<b>7.48</b>	.05	4.19	.22	9.04
9.22	9.40	9.31	8.69	<b>.49</b>	<b>48.74</b>	2.33	18.14
8.05	8.25	<b>8.15</b>	8.04	.10	9.74	.79	13.66
241.40	247.50	244.45	40.18	1.64	165.53	13.37	54.62

Minimum
Maximum
Average
Sum

		<b>min &gt;5.0</b>	<b>&gt;6.25</b>	<b>8.3</b>	<b>3115</b>		
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# DMR Monthly Report

11/1/2024 to 11/30/2024

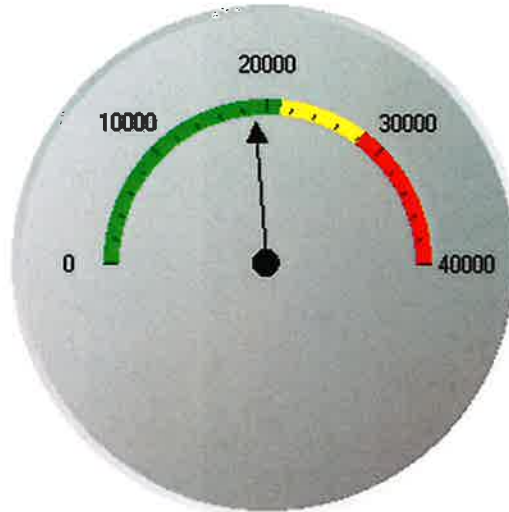
1044	1048	1045	102	116	1046	1047
Fecal Coliform at EQ Basin	EQ Basin Residual Chlorine	EQ Basin pH	EQ Basin BOD	EQ Basin TSS	EQ Basin Ammonia Nitrogen	EQ Basin Total Phosphorus
col/100ml	mg/l		mg/L	mg/L	mg/l	mg/l


400	0.75	Range 6-9				
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**Influent BOD loading Lbs - Monthly AVG**

**18,993 Lbs./Day**

**11/01/2024 - 11/30/2024**



**Influent NH3 loading Lbs - Monthly AVG**

**2,047 Lbs./Day**

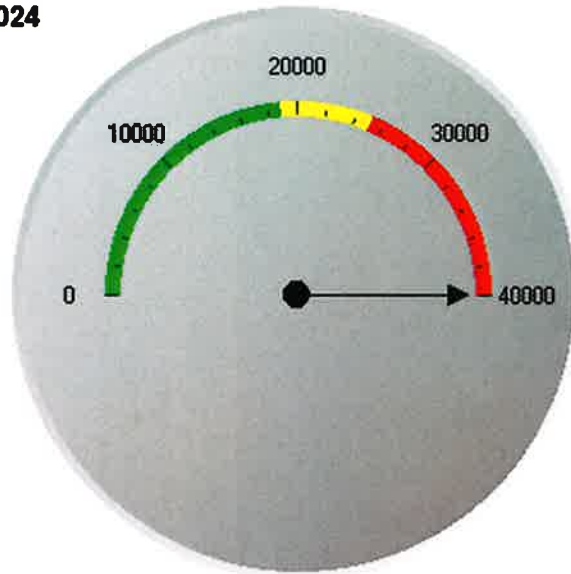
**11/01/2024 - 11/30/2024**



**Influent TSS loading Lbs - Monthly AVG**

**11/01/2024 - 11/30/2024**

**44,396 Lbs./Day**

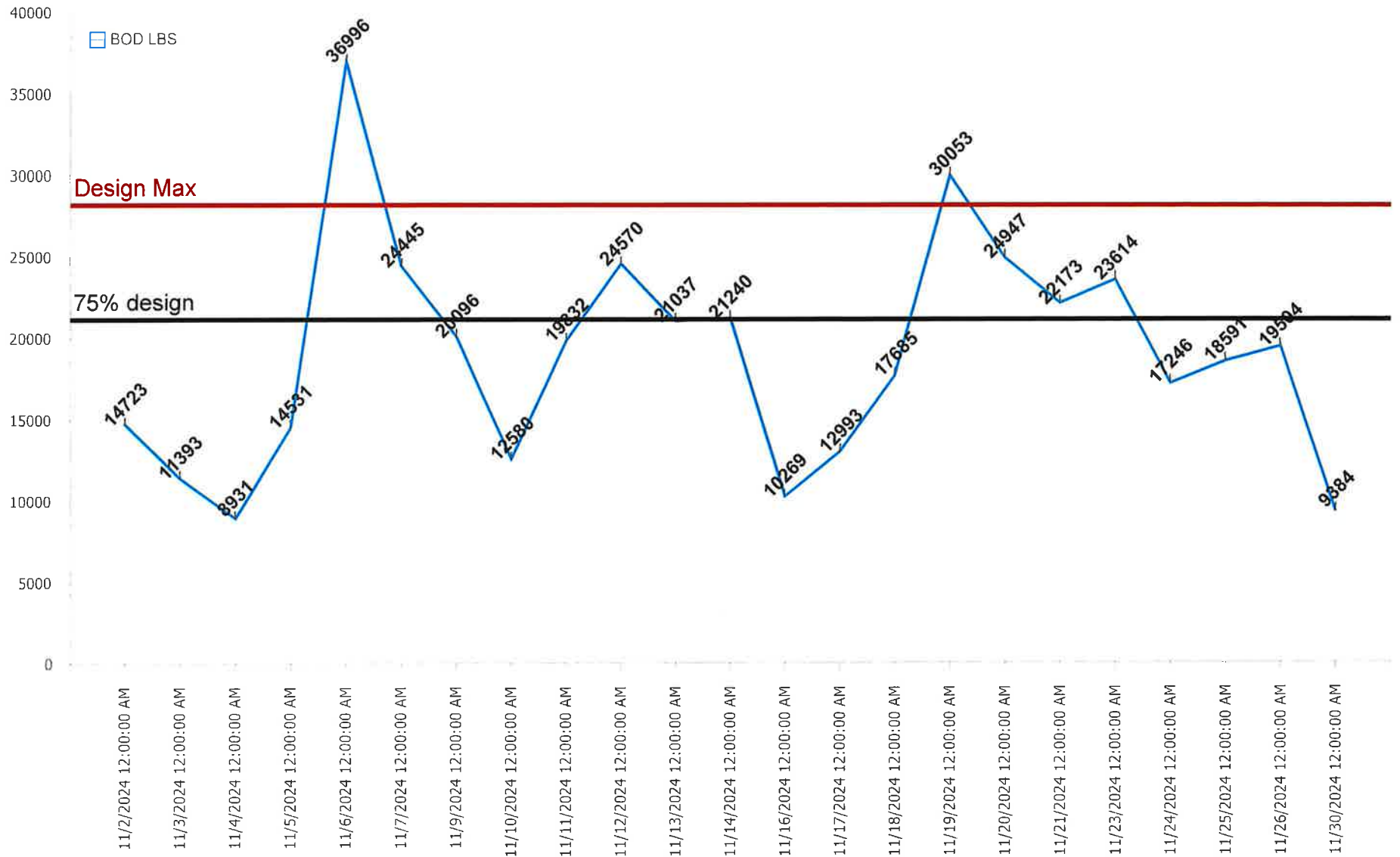


0 to 18900 - Target Loading
18900 to 25200 - Above 75% Threshold
Above 25200



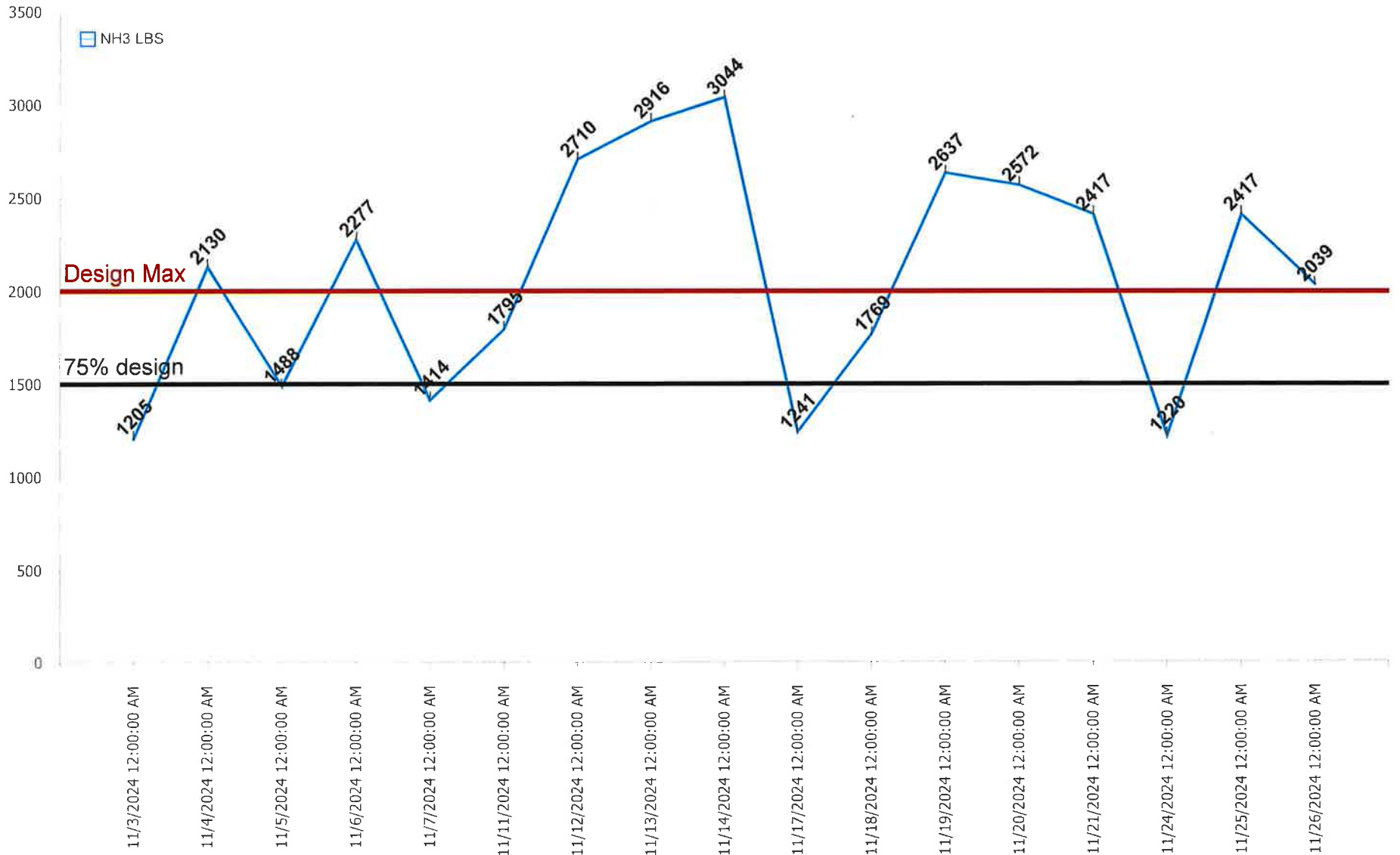
# KRMA influent BOD pounds

Average Lbs. BOD: 18,992.74



# KRMA influent NH3 pounds

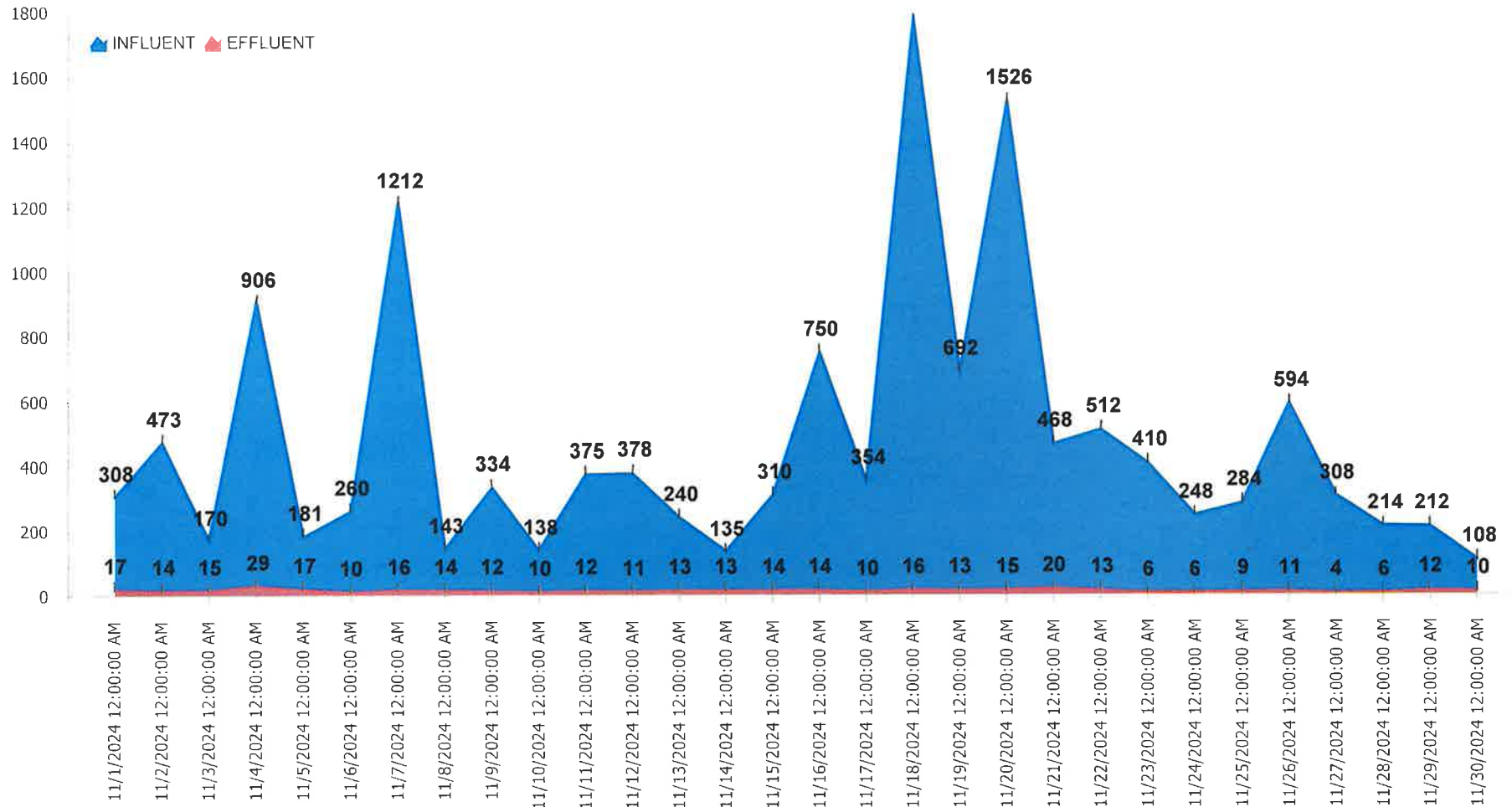
Average Lbs. NH3: 2,075.94



# INFLUENT TSS VS. EFFLUENT TSS

## 11/1/2024 TO 11/30/2024

Effluent Average 12.73



# **ATTACHMENT**

## **B**



# **ATTACHMENT**

# **C**



## Safety Meeting

November 12, 2024, 1:15PM  
Training Room

### Agenda

<u>Topic</u>	<u>Presenter</u>
I. Introduction	Bryan
II. Old Business	
• Lost Time	Bryan
• First Aid Cabinets	Michelle
• Installed October 18, 2024	
• Operations Update	Bryan
• Threat Alert Guidelines	Bryan
• Physical Security Plan	Bryan
• Employee Safety Manual	Bryan
III. New Business	
• Sexual Harassment Training	Bryan
• Safety Team Leader Report	Shawn
• Safety Concerns	All
• Continuing Education	Bryan
IV. Open Discussion	All
V. Future Topics	Bryan
• Fire Protection Procedures	
• CEU Classes	
• CPR Training	
VI. Adjournment	Bryan
• Next Meeting	
• December 17, 2024, @ 1:15PM	



## Safety Meeting

November 12, 2024, 1:15PM

**Presenter:** Bryan Kennedy

**Present:** Jim Churney                      Dan Combs                      Rob Forman  
Max Gossett                      Dave Johnson                      Dennis Kaiser  
Shawn Malone                      Adam Napolean                      Shaun Ownbey  
Nick Scheppler                      Nick Tucker

**Absent:** Mike Arseneau                      Alex Bowser                      Tawonda Brown  
Ron Haney                      John Lund                      Josh Peters  
Jack Renchen                      Art Strother                      Dave Tyson  
R. J. Tyson

**Minutes:** Michelle Howard

### I. Introduction

Bryan called the meeting to order at 1:15PM.

### II. Old Business

- Lost Time – There has been zero lost time for July.
- First Aid Cabinets – The new first aid cabinets were installed throughout KRMA on October 18, 2024. A cabinet has also been placed in the janitorial closet in building 10.
- Operations Update
  - Chris from Standard Equipment will be at KRMA on Thursday, November 14, 2024 to review and demonstrate new Vactor parts,
  - Odor control upgrades will take place in building 55.
  - The access flow drainage pump and primary sludge pump parts have been ordered.
  - Digesters 4 and 5 are being monitored due to low levels. Issues should be addressed with Shaun Ownbey.
  - Nitrate recycle pumps are out for service.
  - KRMA has approved up to \$50,000 for purchase of two trucks. A new mounting kit will be installed on the F250. It will have a side box for snow.
  - The inlet ring for the clarifiers tend to scum up. Staff should keep this issue in mind especially during colder weather and remove scum more frequently.
  - Strand recommends that KRMA continue performing the IMHOFF report into the winter.
  - During construction, aeration will be located at the Northeast end of the property to assist with drainage.



- Staff members from Strand conducted a site visit on November 8, 2024. They will be working on the design of various processes and plans for the upgrade.
- KRMA staff can view the upgrade drawings in Bryan Kennedy's office.
- Threat Alert Guidelines, Physical Security Plan, Employee Safety Manual
  - Binders are in the office in building 10 and in building 66 on the table. As time permits, staff input regarding changes to the guidelines is welcome.

### III. New Business

- Sexual Harassment Training was conducted. The State of Illinois requires employers to provide training in the prevention of sexual harassment in the workplace. RJ Tyson will submit the tests to the State and obtain the certificates.
- Safety Team Leader Report – Adam Napolean will serve as safety leader for the next three months.
- Safety Concerns
  - The floor boards in the Ford trucks are rotted through.
  - The brakes and brake lines on the flatbed should be replaced. The floor board is also rotted through.
  - The hoist requires repair.
- Continuing Education – Bryan will be seeking educational modules which offer CEU's for the various levels of licenses. Modules will be conducted during safety meetings if possible. Please advise Bryan if you are aware of any modules which are CEU eligible.

### IV. Open Discussion

- There is no ETA on the drainage pumps at this time.
- The wasting pump should arrive in 3 weeks.
- There is no update on the GBT side seals at this time.
- Additional buffer bottles are needed.
- Shaun Ownbey keeps a list of ongoing equipment deficiencies to be addressed. The list includes but is not limited to: Out of Service Equipment and Status reports on various equipment.

### V. Future Topics

- Fire Protection Procedures – Fire extinguisher training will be scheduled.
- CPR Training – Will be scheduled.

### VI. Adjournment

- Next Meeting – December 19, 2024, @ 1:00PM

# **ATTACHMENT**

## **D**

## FIELD CALIBRATION SHEET

COMPANY: KRMA

CITY: KANKAKEE

FLOW METER MODEL: Siemens Hydro Ranger #1

Influent December 9th, 2024

PRIMARY DEVICE: Flume

FLOW: 0-73 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 20.02 MGD

LEVEL AFTER: 20.02 MGD

C) Actual Flow 10.13 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: 12/9/2024

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: BOURBONNAIS/New

FLOW METER MODEL: Isco Laser Flow

INFLUENT December 9th, 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? 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 14.0" As found 13.972"

LEVEL AFTER: 13.972"

C) Actual level 9.980" 2.79 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: 12/9/2024

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 December 7th, 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 23.629"

LEVEL AFTER: 24.121"

Actual Flow 41.82 GPM 2.601"

**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 12/7/2024

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 Influent

FLOW METER MODEL: Isco Laser Flow

INFLUENT December 9th, 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? 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 level 40.0" As found 40.569"

LEVEL AFTER: 39.99"

C) Actual level 27.118" 8.06 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: 12/9/2024

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 December 9th, 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 19.91 MGD

LEVEL AFTER: 20.01 MGD

C) Actual Flow 10.13 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: 12/9/2024

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 December 7th, 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 24.054"

LEVEL AFTER: 24.123"

D) Actual Flow 2.096" 30.24 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 Scheppler

**DATE:** 12/7/2024

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: BRADLEY/ RIVER DRIVE

FLOW METER MODEL: Isco Signature

December 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 10.0" Level reading 10.325"

LEVEL AFTER: 10.03"

C) Actual Flow 1.48 MGD 5.352"

**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: 12/7/2024

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

**ATTACHMENT**

**E**

November 2024 Monthly Pretreatment Sample Analysis (metals, cyanide & VOA) for the permitted industries were a total of **67 samples** and a total of **374 analyses**.

<b>Gilster-Mary Lee Corporation</b>	11 Samples
<b>Hoffman Transportation, LLC</b>	5 Samples
<b>Liberty Landfill, LLC</b>	10 Samples
<b>Livingston Landfill</b>	6 Samples
<b>Natural Gas &amp; Pipeline Co. of America</b>	4 Samples
<b>Prairie View RDF</b>	9 Samples
<b>Tank Cleaning Solutions, LLC</b>	22 Samples

Volumes Received for November 2024 for trucked-in industries.

<b>Gilster-Mary Lee Corporation</b>	106,000 gals	18 loads
<b>Hoffman Transportation, LLC</b>	115,000 gals	23 loads
<b>Liberty Landfill, LLC</b>	406,480 gals	62 loads
<b>Livingston Landfill</b>	148,693 gals	22 loads
<b>Natural Gas &amp; Pipeline Co. of America</b>	40,000 gals	8 loads
<b>Prairie View RDF</b>	214,546 gals	36 loads
<b>Tank Cleaning Solutions, LLC</b>	162,347 gals	31 loads
<b>Totals:</b>	<b>1,193,066 gals</b>	<b>200 loads</b>

The KRMA Facility received a total of **142 loads** of septage which totalled **444,400 gallons** for the month of November 2024

**KRMA YEARLY UTILITY USAGE - (2024)**

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
<b>JANUARY</b>	849,824	32	\$ 60,844	\$ 1,901	-	195,967	653,857	1,107	\$ 0.0716	285,700	32	\$ 2,535	8,928	79
<b>FEBRUARY</b>	205,738	36	\$ 54	\$ 2	-	205,480	258	238	\$ 0.0003	267,500	28	\$ 2,423	9,554	87
<b>MARCH</b>	214,510	28	\$ 46	\$ 2	-	214,341	169	319	\$ 0.0002	279,200	30	\$ 2,663	9,307	89
<b>APRIL</b>	207,334	29	\$ 40	\$ 1	-	207,210	124	298	\$ 0.0002	273,100	30	\$ 2,622	9,103	87
<b>MAY</b>	2,985,201	127	\$ 117,770	\$ 927	-	212,466	2,772,735	979	\$ 0.0395	308,000	33	\$ 2,858	9,333	87
<b>JUNE</b>	134,992	31	\$ 33	\$ 1	-	134,937	55	181	\$ 0.0002	268,500	28	\$ 1,591	9,589	57
<b>JULY</b>	1,122,269	54	\$ 66,703	\$ 1,235	-	100,224	1,022,045	866	\$ 0.0594	323,300	33	\$ 2,961	9,797	90
<b>AUGUST</b>	165,823	29	\$ 3	\$ 0	-	165,776	47	238	\$ 0.0000	380,000	31	\$ 3,345	12,258	108
<b>SEPTEMBER</b>	1,087,158	53	\$ 64,332	\$ 1,214	-	89,708	997,450	855	\$ 0.0592	303,400	28	\$ 2,829	10,836	101
<b>OCTOBER</b>	232	29	\$ 6	\$ 0	-	142	90	0	\$ 0.0247	318,500	33	\$ 2,931	9,652	89
<b>NOVEMBER</b>	127	28	\$ 8	\$ 0	-	-	127	0	\$ 0.0635				#DIV/0!	#DIV/0!
<b>DECEMBER</b>	0			#DIV/0!	-			#DIV/0!	#DIV/0!				#DIV/0!	#DIV/0!
<b>TOTAL</b>	6,973,208	476	\$ 309,840	#DIV/0!	0	1,526,251	5,446,957	#DIV/0!	#DIV/0!	3,007,200	306	\$ 26,759	#DIV/0!	#DIV/0!
	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	Therms/Day	Total Cost \$/day
<b>JANUARY</b>	39,569	31	\$ 26,964	1276	\$ 870
<b>FEBRUARY</b>	40,365	31	\$ 28,648	1302	\$ 924
<b>MARCH</b>	29,231	30	\$ 19,960	974	\$ 665
<b>APRIL</b>	26,292	29	\$ 18,134	907	\$ 625
<b>MAY</b>	17,469	32	\$ 24,736	546	\$ 773
<b>JUNE</b>	11,711	30	\$ 8,453	390	\$ 282
<b>JULY</b>	7,952	30	\$ 5,873	265	\$ 196
<b>AUGUST</b>	9,058	32	\$ 6,615	283	\$ 207
<b>SEPTEMBER</b>	8,393	30	\$ 6,137	280	\$ 205
<b>OCTOBER</b>	11,936	32	\$ 8,625	373	\$ 270
<b>NOVEMBER</b>	17,529	29	\$ 12,491	604	\$ 431
<b>DECEMBER</b>				#DIV/0!	#DIV/0!
<b>TOTAL</b>	219,506	336	\$ 166,636	#DIV/0!	#DIV/0!
	Therms	Days	Total Cost \$/Billing Period	Therms/Day	Total Cost \$/day



## Annual Load / Gallon Totals

2024

IV-B-2

1600 West Brookmont Blvd.  
Kankakee, IL 60901  
Phone: 815-933-0444  
Fax: 815-933-0104

Month Received	Gilster-Mary Lee Corporation	Hoffman Transportation, LLC	Kankakee Recycling & Disposal Facility	KGN Farm Inc.	Lake County C&D Landfill	Laraway Recycling & Disposal Facility	Liberty Landfill, LLC	Livingston Landfill	Momence Packing	Natural Gas & Pipeline Co. of America	Newton County Landfill	Peoria Packing Co.	Prairie View - Will County RNG Plant	Prairie View RDF	Tank Cleaning Solutions, LLC	Verdant Specialty Solutions US LLC	Zutal Feed Solutions	Total	# Loads
January	18,000	200,000				226,390	1,162,660	287,301		115,000		3,000		363,552	219,954			2,595,857	427
February	24,000	205,000				269,985	1,362,283	393,803		50,000		3,000		461,815	204,243			2,974,129	481
March	112,000	185,000				363,718	886,492	181,224		50,000				482,385	193,769			2,454,588	407
April	100,000	175,000				389,293	1,198,071	138,361	135,500	120,000				403,227	188,532			2,847,984	468
May	118,000	165,000				58,558	1,317,423	183,002	28,000	75,000		2,000		221,067	204,243			2,372,293	390
June	108,000	145,000					1,324,184	164,672		35,000				101,632	193,764			2,072,252	345
July	100,000	155,000					1,253,282	144,811		40,000				261,983	199,006			2,154,082	353
August	132,000	175,000					1,498,269	163,237	4,000	15,000				106,026	183,295			2,276,827	372
September	114,000	150,000					1,210,707	195,289		15,000				16,580	178,058			1,879,634	311
October	140,000	155,000				5,930	723,964	170,728		10,000				10,971	193,769			1,410,362	241
November	106,000	115,000					399,933	148,693		40,000				214,546	162,347			1,186,519	200
December																			
<b>Totals</b>	<b>1,072,000</b>	<b>1,825,000</b>				<b>1,313,874</b>	<b>12,337,268</b>	<b>2,171,121</b>	<b>167,500</b>	<b>585,000</b>		<b>8,000</b>		<b>2,643,784</b>	<b>2,120,980</b>			<b>24,224,527</b>	<b>3,995</b>
Average	97,454	165,909				131,387	1,121,569	197,374	16,750	51,363		800		240,344	192,816			2,202,230	363
Treatment Costs as of 05/01/24	0.095	0.065	0.065	0	0.065	0.065	0.065	0.065	0.095	0.095	0.11	0.095	0	0.065	0.095	0.152	0.095		
Treatment Costs as of 05/01/23	0.09	0.062	0.062	0	0.062	0.062	0.062	0.062	0.09	0.09	0.1	0.09	0	0.062	0.09	0.145	0.09		



**Monthly TSS/BOD  
 Loading Report**  
 November, 2024

1600 West Brookmont Blvd.  
 Kankakee, IL 60901  
 Phone: 815-933-0444  
 Fax: 815-933-0104

Hauler	Gallons	Lbs TSS	Lbs BOD
Gilster-Mary Lee Corporation	106,000	2,951	7,160
Hoffman Transportation, LLC	115,000	440	779
Liberty Landfill, LLC	406,480	474	12,129
Livingston Landfill	148,693	1,167	5,735
Natural Gas & Pipeline Co. of America	40,000	44	115
Prairie View RDF	214,546	282	4,976
Tank Cleaning Solutions, LLC	162,347	180	3,609
Verdant Specialty Solutions US LLC	0	0	0
<b>Totals:</b>	<b>1,193,066</b>	<b>5,538</b>	<b>34,502</b>



