

AGENDA

KANKAKEE RIVER METROPOLITAN AGENCY MEETING

Thursday, March 23, 2022

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. February 23, 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. CSL Update
 - B. Bradley Property Update
 - C. Republic Contract
 - D. Security Updates
- VI. New Business**
 - A. Bourbonnais Park District
- VII. Executive Session**
 - A. Personnel & Probable or Imminent Litigation
- VIII. Next Meeting**

Thursday, April 27, 2023 (9:00 AM in KRMA Boardroom)

KANKAKEE RIVER METROPOLITAN AGENCY
MINUTES
February 23, 2023 – 9:00 A.M
1600 W Brookmont Blvd.
Kankakee, IL 60901

In attendance:

Board of Directors:

Mayor Christopher Curtis, City of Kankakee
Mayor Paul Schore, Village of Bourbonnais
Financial Director Robert, Romo, Village of Bradley
Alderman Danita Swanson, City of Kankakee
Steven Hunter, Representative, City of Kankakee
Alternate David Crawford, Alderman, City of Kankakee

Administration:

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

Attorney:

Neal Smith, Robbins Schwartz

KRMA Staff:

Art Strother, Superintendent
Dustin Scheppler, Asst. Superintendent of O & M

Other:

Ryan McGinnis, City of Kankakee
Dan Small, Strand Associates
Tara Latz, Alternate for Village of Bourbonnais

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 and Alderman Larry Osenga. Alternate Alderman David Crawford, City of Kankakee, sitting in for Director Larry Osenga for deciding vote

II. **Public Comment**

None

III. **Approval of Board Minutes January 26, 2023 - Regular Board Meeting**

Motion to approve the January 26, 2023, Regular Board Meeting minutes was made by: Dir Hunter and seconded by Dir Romo. All board members present voted in favor of, Alternate David Crawford voted abstained, and Dir Larry Osenga and Dir Brian Stump absent. Motion Carried.

IV. Reports

A. Operations & Maintenance Report

1. Monthly Report

Art asked the board members to review Attachment A of the MOR at the BOD and TSS gauges. Art stated for the first time in a while that BOD loadings are within our operation design. Art also stated we're in compliance with the requirements of the CMOM permit. The responsibility of the CMOM Program is on each individual municipality. KRMA is requesting a quarterly assessment from each municipality regarding their sewer collection. KRMA will provide the checklist to each municipality, therefore, everyone will be on the same accord. Exec Dir Tyson informed everyone the CMOM is due February 14 on an annual basis, however, IEPA recommends submitting the quarterly assessment. There were more discussion concerning the timeline that the quarterly assessment will be due. Art introduces our new Office Administrator Suzy Berrones, who has been with KRMA for approximately six months. Dir Romo asked, is the ammonia still high? Art replied yes.

B. Executive Director Report

1. Water, Gas & Electric Use/Cost

Exec. Dir. Dave Tyson presented the yearly utility usage. Exec Dir Tyson stated the utilities are down from last year this time. Dir Hunter "asked are we going to utilize any solar components?" Exec Dir Tyson, and Dan both agreed it's not feasible at this moment. Dir Romo stated he receives phone calls every day regarding odor.

2. Hauled In Waste Summary

Exec. Dir. Tyson stated hauled in waste is up this month. We received a big volume from Liberty and Newton County.

2. Operations Report

Exec Dir Tyson stated he will discuss in other categories.

C. Financial Report

1. Reports

Karen Benson presented the monthly financial reports. She referenced the statement of net position, stating cash position is strong, still building reserve. The interest on the new account is more than we budgeted due to the higher interest rate. Statement of revenue/expense is higher due to the inflation of cost of chemical/ supplies and industrial cost. We are also running above our budgeted change in net position for the month and for the fiscal year to date.

2. Hauled In Waste Report

None

3. Flows Graphs

Karen presented the Flow Graphs, stating that municipalities are in line with the estimation for the year.

D. Communications

1. IEPA CMOM Extension Request Letter

Exec Dir Tyson informed the board that KRMA requested an extension from IEPA regarding the CMOM Report because we have not heard back from the Village of Aroma Park and Chebanse.

V. Old Business

A. CSL Update

Exec Dir Tyson informed the board that we are seeing good results from their plant being up and running. Dir Swanson asked, "is CSL's pretreatment plant 100% complete?" Exec Dir Tyson replied, no. Ryan stated that are fully operational, however, they do have a second train they are still working on.

B. Bradley Property

Dir Romo stated, Mayor Watson said the meeting went great and he's looking forward to the next meeting.

C. **ICP Machine**

Chairman Curtis stated the ICP Machine is up and running and working well. Ryan agreed that its quicker and more accurate than before. Vice Chairman Schore asked how often the ICP Machine is used. Ryan replied, once &/or twice a week.

D. **Republic Contract**

Exec Dir Tyson stated there was conversation with Josh with Republic Services. KRMA will not be offering Republic Service a long-term contract. They would follow the permit rules and regulation. There was more discussion regarding Republic Services.

E. **Security Updates**

Chairman Curtis stated once locations are identified for cameras have been established, they will be installed. Dustin will work with Claire Hall, Manager of Technical Services, to foresee this matter.

F. **Strand/SKDO, P.C will present update on the KRMA's Plant Capacity Evaluation/Expansion Project and Financial Positions it will have on each Municipal**

Dan Small with Strand Associates led the presentation and Karen Benson with SKDO, P.C gave breakdown regarding the financial projection on each municipality and on KRMA that will take place without Newton County and having access to Bradley Property. There were questions, concerns, and discussion regarding this presentation.

VI. **New Business**

A. **New Era Contract Extension for Sludge Disposal Service**

Exec Dir Tyson stated New Era requested that we extend their current contract for 1 year, instead of going out for bid. The price will remain the same for one year. Approval to extended additional one year at the same rate was made by Dir Hunter and seconded by Dir Romo. All board members present, and Alternate David Crawford voted in favor of, and Dir Larry Osenga and Dir Brian Stump absent. Motion Carried.

B. **Personnel Update**

1. **Approval for Collective Bargaining Agreement with Local #399 effective for December 2022 – November 2026**

Motion to approve Collective Bargaining Agreement with Local #399 effective for December 2022 – November 2026 subject to Attorney's review was made by Dir Hunter and seconded by Vice Chairman Schore. All board members present, and Alternate David Crawford voted in favor of, and Dir Larry Osenga and Dir Brian Stump absent. Motion Carried.

2. **Administrative Annual Increases**

Motion to approve Administrative Annual Increases effective May 1, 2023, as follow: Superintendent an increase of 2.5%, two Assistant Superintendent an increase of 3%, Administrative Assistant an increase of 2.5%, and a new title for the Office Coordinator which is now: Office Coordinator/AP Specialist/Administrative Assistant with a salary increase of \$62,000 annually was made by Dir Hunter and seconded by Vice Chairman Schore. All board members present, and Alternate David Crawford voted in favor of, and Dir Larry Osenga and Dir Brian Stump absent. Motion Carried.

C. **Approval of ACH payments by Hauled in Waste Customers, and the approval to provide customers with KRMA's banking information**

Karen explained the difficulty of only accepting checks for hauled in waste and septic haulers and would like to start accepting ACH Payments and credit cards.

VII. **Executive Session**

A. **Personnel, Collective Bargaining Agreement, & Probable or Imminent Litigation**

Motion to go into Executive Session to discuss Personnel under ILCS 122(c)(1) and to discuss Union Contract under ILCS 122(c)(2) was made by Dir Hunter and seconded by Vice Chairman Schore. Motion carried.

Roll call was taken and all board members were present and Alternate David Crawford sitting in for Dir Larry Osenga, except Dir Brian Stump and Dir Larry Osenga absent.

The Board went into Executive Session.

Motion to exit Executive Session was made by Dir. Hunter and seconded by Vice Chairman Schore. Motion carried.

Roll call was taken and all board members present and Alternate David Crawford sitting in for Dir Larry Osenga, except Dir Brian Stump and Dir Larry Osenga absent.

Return to Open Session.

Roll call was taken and all board members present and Alternate David Crawford sitting in for Dir Larry Osenga, except Dir Brian Stump and Dir Larry Osenga absent.

With the Board back in open session there were two actions taken.

VIII. **Next Meeting**

Next Regular Board Meeting- **Thursday, March 23, 2023 (9:00 A.M. at KRMA Board Room)**

Motion to Adjourn was made by Dir Romo and seconded by Vice Chairman Schore. All board members present and Alternate David Crawford sitting in for Dir Larry Osenga, except Dir Brian Stump and Dir Larry Osenga absent. Motion Carried.



Kankakee River Metropolitan Agency

Providing Wastewater Treatment to the Kankakee River Valley



Self-Love

Loving Others

Kindness

Self-Care

Encouraging Relationship

Monthly Operations Report

February 2023

KRMA'S FEBRUARY HIGHLIGHTS:

The KRMA Assistant Superintendent of technical services, Melanie Gossett and city of Kankakee Lab Supervisor, Ryan McGinnis attended a Pretreatment Seminar to update themselves on new and upcoming practices.

The KRMA Management Staff, Executive Director for KRMA Board and City of Kankakee Lab Supervisor had virtual meeting Kensing, formerly BASF, to discuss the concerns regarding their waste discharge.

The month of February, the Agency had violation of weekly and monthly permit of the NPDES (National Pollutant Discharge Elimination System) permits. The violations were reported to the IEPA (Illinois Environmental Protection Agency). These violations were mainly due to hydraulic loadings to plant.

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)	422.39	251.79	117.385	51.947	1.262
Daily Average Flow (MGD)	15.09	8.99	4.192	1.855	0.045

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	7 mg/l
Total Suspended Solids (TSS) - Monthly Average	25 mg/l	49 mg/l
PH	6-9 SU	7.08 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 February.
- There were no odor complaints registered at the East Gate site in February.

4.0 PERSONNEL

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

Charles (Andy) Summers, O & M Operator Specialist, 3 years

Nick Tucker, O & M Operator Specialist, 3 years

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

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:	893
Hours of Scheduled Work Orders Performed:	672.47

6.0 SLUDGE HANDLING

Start Date: 02/01/2023
End Date: 02/28/2023

Gallons of sludge produced and sent to thickening:	3,107,801.00
Gallons of sludge put into storage after thickening:	935,000.00
Sludge removed from the plant for land application:	339,600.00
Sludge remaining in storage as of January 31 st :	2,995,000.00

7.0 WATER USAGE

FEBRUARY 2023 (28 DAYS): 31,763 CU FT= 237,600 GALS. = \$2,190.15

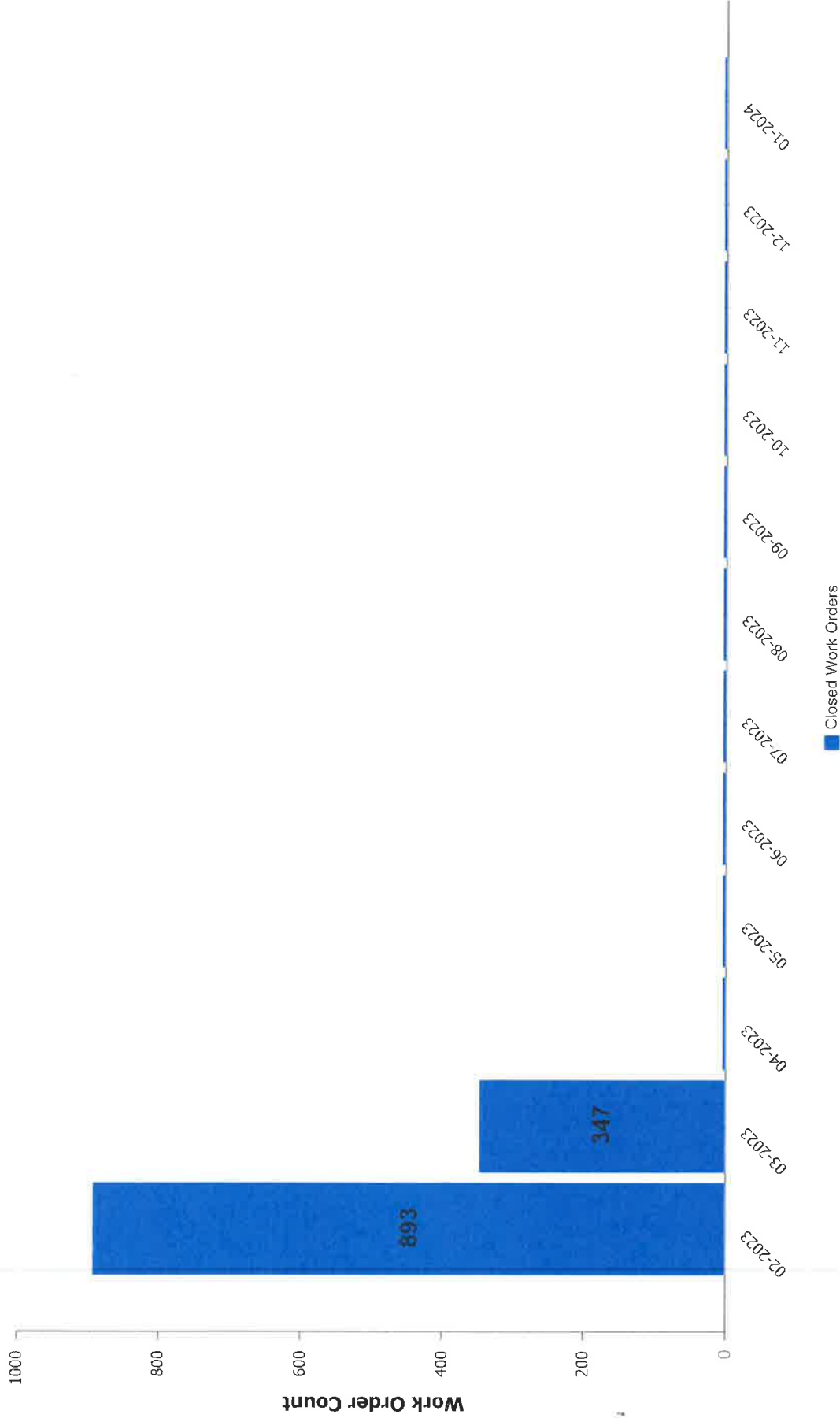
NUMBER OF DAYS IN THE BILLING CYCLE: 28



Work Orders Closed By Month

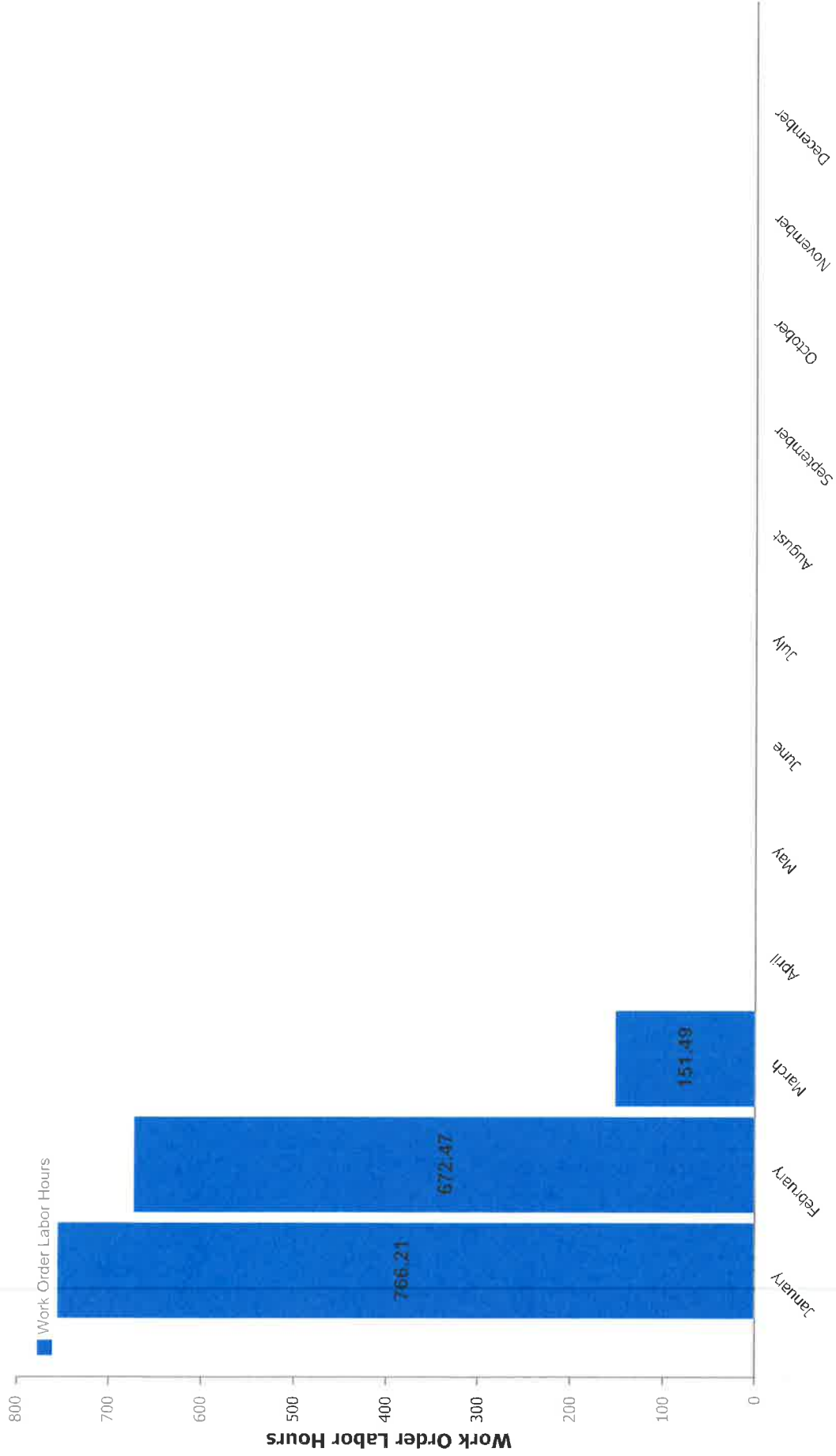
From February, 2023 to January, 2024

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



Work Order Labor Hours by Month

2023



ATTACHMENT

A

DMR Monthly Report

2/1/2023 to 2/28/2023

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 EffCBO D	EFF C-BOD
Date	MGD	STD UNIT	mg/L	MG/L	LBS/D	LBS/Day	mg/l	MG/L	lbs/day
2/1/2023	12.004	7.37	13		1,301		3		300
2/2/2023	11.863	7.34	12		1,187		4		396
2/3/2023	11.513	6.68	12		1,152				
2/4/2023	11.436		18	14	1,717	1,379	4	3	382
2/5/2023	11.610		13		1,259		5		484
2/6/2023	11.568	6.91	11		1,061		3		289
2/7/2023	11.533	6.87	18		1,731		6		577
2/8/2023	11.388	7.32	27		2,564		7		665
2/9/2023	17.880	7.14	37		5,517		9		1,342
2/10/2023	18.142	7.05	17		2,572				
2/11/2023	14.756		19	20	2,338	2,435	3	6	369
2/12/2023	14.084		14		1,644		2		235
2/13/2023	13.217	7.10	12		1,323		4		441
2/14/2023	13.024	7.06	14		1,521		4		434
2/15/2023	12.810	7.13	17		1,816		5		534
2/16/2023	13.350	7.19	18		2,004		8		891
2/17/2023	13.574	7.18	7		792				
2/18/2023	13.351		17	14	1,893	1,571	5	5	557
2/19/2023	12.914		21		2,262		6		646
2/20/2023	12.619	7.15	15		1,579		3		316
2/21/2023	12.521	6.93	17		1,775		4		418
2/22/2023	18.226	7.09	818		124,340		29		4,408
2/23/2023	23.067	6.89	39		7,503		5		962
2/24/2023	23.379	6.91	14		2,730				
2/25/2023	18.670		17	134	2,647	20,405	6	9	934
2/26/2023	18.983		10		1,583		4		633
2/27/2023	22.253	7.19	113		20,972		37		6,867
2/28/2023	22.650	7.11	8		1,511		4		756

Minimum	11.388	6.68	7	14	792	1,379	2	3	235
Maximum	23.379	7.37	818	134	124,340	20,405	37	9	6,867
Average	15.085	7.08	49	46	7,153	6,448	7	6	993
Sum	422.385	141.61	1,368	183	200,296	25,789	170	22	23,836

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

2/1/2023 to 2/28/2023

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	%
2/1/2023				12.00	268	26,830	114	11,413	99
2/2/2023				11.86	248	24,536	126	12,466	98
2/3/2023				11.51			144	13,827	
2/4/2023	316			11.44	222	21,174	308	29,376	98
2/5/2023				11.61	170	16,461	228	22,077	97
2/6/2023				11.57	228	21,997	264	25,470	99
2/7/2023				11.53	393	37,801	276	26,547	98
2/8/2023				11.39	539	51,192	402	38,180	99
2/9/2023				17.88	310	46,227	362	53,981	97
2/10/2023				18.14			334	50,536	
2/11/2023	621			14.76	107	13,168	262	32,243	97
2/12/2023				14.08	72	8,457	172	20,203	97
2/13/2023				13.22	226	24,912	80	8,818	98
2/14/2023				13.02	338	36,714	218	23,679	99
2/15/2023				12.81	323	34,508	88	9,402	98
2/16/2023				13.35	263	29,282	204	22,713	97
2/17/2023				13.57			97	10,981	
2/18/2023	515			13.35	201	22,381	196	21,824	98
2/19/2023				12.91	145	15,617	152	16,371	96
2/20/2023				12.62	275	28,942	49	5,157	99
2/21/2023				12.52	230	24,018	178	18,588	98
2/22/2023				18.23	102	15,504	156	23,713	72
2/23/2023				23.07	134	25,779	105	20,200	96
2/24/2023				23.38			143	27,882	
2/25/2023	1,281			18.67	167	26,003	180	28,027	96
2/26/2023				18.98	126	19,948	109	17,257	97
2/27/2023				22.25	100	18,559	72	13,362	63
2/28/2023				22.65	129	24,368	86	16,245	97

Minimum	316			11.39	72	8,457	49	5,157	63
Maximum	1,281			23.38	539	51,192	402	53,981	99
Average	683			15.08	222	25,599	182	22,162	95
Sum	2,733			422.39	5,316	614,377	5,105	620,538	2,284

Limit	15012	0.05	400						
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DMR Monthly Report

2/1/2023 to 2/28/2023

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
2/1/2023	89	9.17	9.30	9.24		0.39	38.84	0.37	
2/2/2023	90	8.48	8.73	8.61		0.36	35.22	0.38	
2/3/2023	92	8.83	9.12	8.98					
2/4/2023	94	8.93	9.27	9.10	9.14				
2/5/2023	94	8.87	9.20	9.04		0.07	6.43	0.35	
2/6/2023	96	9.23	9.41	9.32		0.05	4.82	0.28	
2/7/2023	93	8.10	8.61	8.36		3.45	331.84	0.41	
2/8/2023	93	7.32	8.55	7.94		3.22	305.82	0.55	10.42
2/9/2023	90	6.43	8.50	7.47		4.04	602.44	0.60	
2/10/2023	95	8.09	8.50	8.30					
2/11/2023	93	8.12	8.39	8.26	8.38				
2/12/2023	92	8.94	8.86	8.90		0.05	5.87	0.13	
2/13/2023	85	8.74	8.90	8.82		0.05	5.51	0.18	
2/14/2023	94	8.15	8.56	8.36		0.50	53.98	0.23	
2/15/2023	81	7.96	8.58	8.27		0.05	5.34	0.22	
2/16/2023	91	7.65	8.50	8.08		0.25	28.17	0.27	11.40
2/17/2023	93	8.54	8.93	8.74					
2/18/2023	91	9.07	9.12	9.10	8.61				
2/19/2023	86	9.09	9.14	9.12		0.14	14.65	0.34	
2/20/2023	69	8.56	8.88	8.72		0.93	97.45	0.28	
2/21/2023	90	7.94	8.58	8.26		0.40	41.77	0.35	10.22
2/22/2023	-424	6.90	8.25	7.58		2.56	389.13	1.50	
2/23/2023	63	6.48	8.14	7.31		1.77	340.51	0.70	
2/24/2023	90	8.65	8.59	8.62					
2/25/2023	91	8.58	8.49	8.54	8.31				
2/26/2023	91	9.04	8.97	9.01		0.10	16.47	0.17	
2/27/2023	-57	7.94	8.11	8.03		1.04	193.01	1.14	
2/28/2023	91	7.82	7.92	7.87		1.34	253.13	0.18	

Minimum	-424	6.43	7.92	7.31	8.31	0.05	4.82	0.13	10.22
Maximum	96	9.23	9.41	9.32	9.14	4.04	602.44	1.50	11.40
Average		8.27	8.72	8.50	8.61	1.04	138.52	0.43	10.68
Sum	1,835	231.62	244.10	237.86	34.43	20.75	2,770.42	8.62	32.04

Limit				min >4.0	>4.5	7.5	2815		
				avg >6.0					

Influent BOD loading Lbs - Monthly AVG

25,599 Lbs./Day

02/01/2023 - 02/28/2023



0 to 21150 - Target Loading
21150 to 28200 - Above 75% Threshold
Above 28200

Influent NH3 loading Lbs - Monthly AVG

2,566 Lbs./Day

02/01/2023 - 02/28/2023



0 to 1500 - Target Loading
1500 to 2000 - Above 75% Threshold
Above 2000

Influent TSS loading Lbs - Monthly AVG
02/01/2023 - 02/28/2023

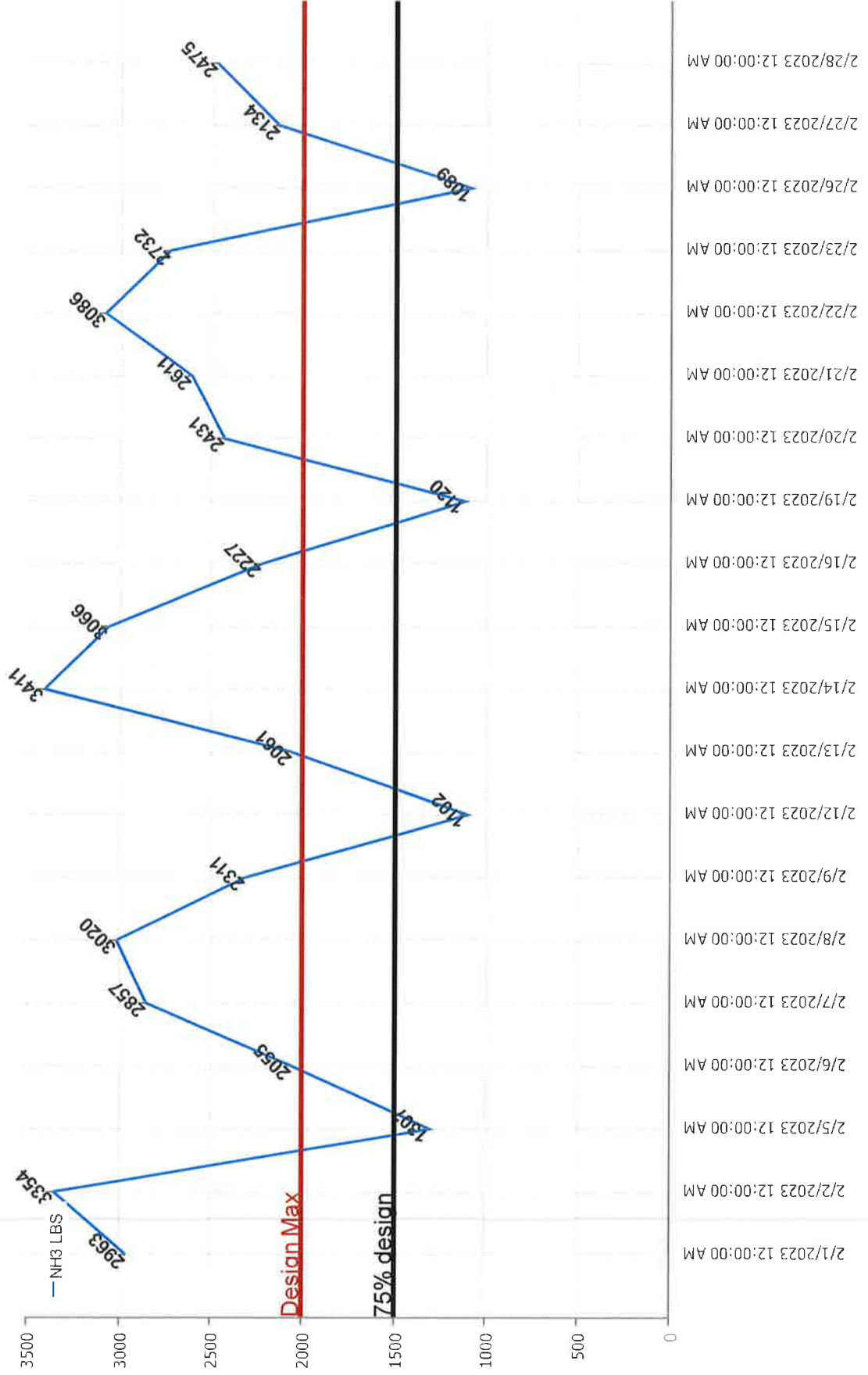
22,162 Lbs./Day



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

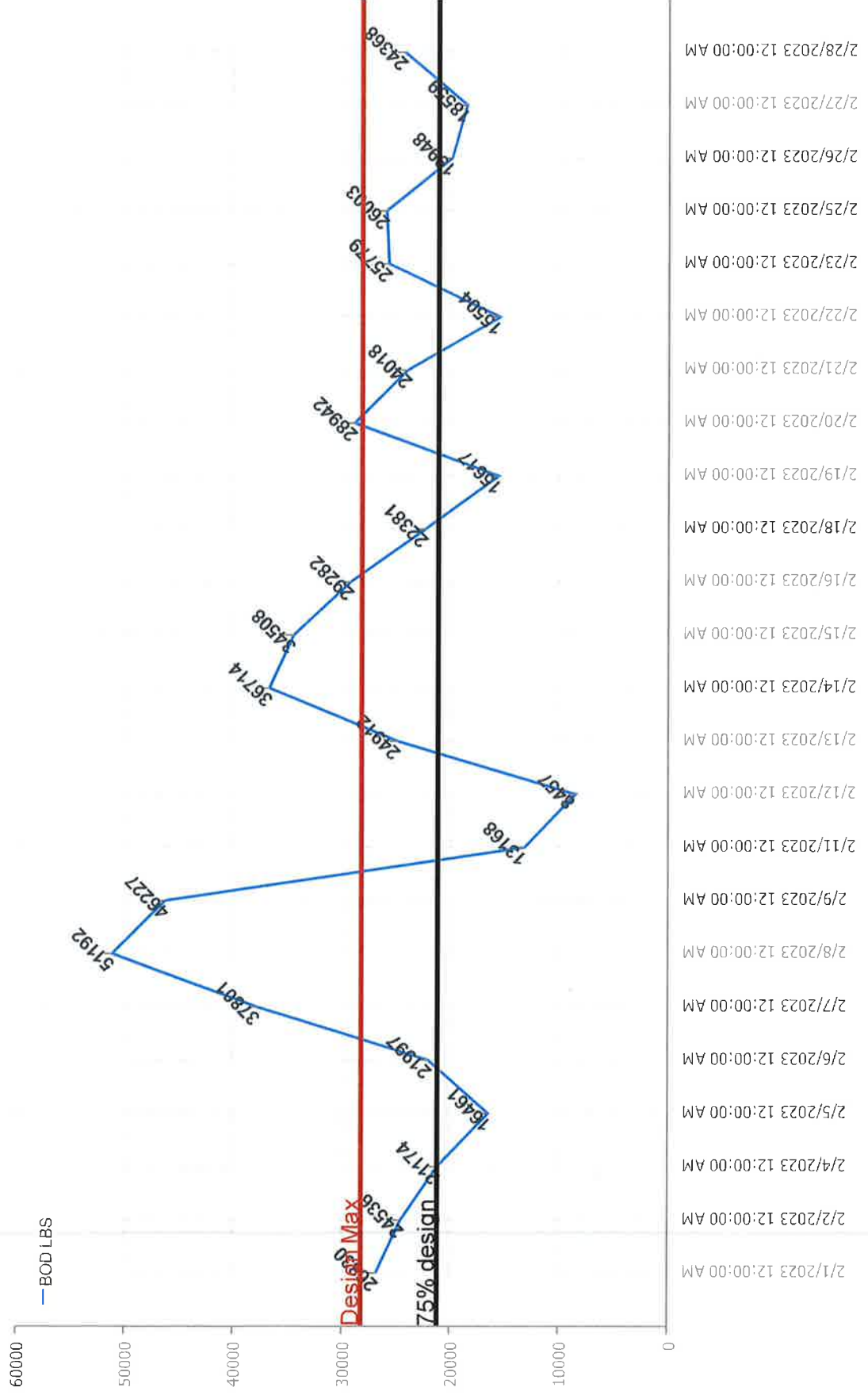
KRMA influent NH3 pounds

Average Lbs. NH3: 2,370.60



KRMA influent BOD pounds

Average Lbs. BOD: 25,599.08



ATTACHMENT

B

ATTACHMENT

C



SAFETY MEETING
February 14, 2023
9:30am
Minutes

In attendance:

9am session:

Melanie Gossett, Facilitator; Suzie Werner, HomeStar Insurance Representative

Shaun Ownbey	Jack Renchen	Dan Combs	Shawn Malone
Jim Churney	Mike Gowler	Bryan Kennedy	Josh Peters
John Lund	Max Gossett	Mike Arseneau	Nick Tucker
Alex Bowser			

Absent:

Nick Scheppler, Ron Haney, Andy Summers, RJ Tyson

I. Safety Minutes

Reviewed minutes from January 2023 - Approved

II. Old Business

There were no lost time accidents for the month of January 2023

III. New Business

A. Safety Training

1. Suzie Werner, HomeStar Insurance Services, presented the voluntary Short-term/Long-term Disability options as per Section 17 of the Collective Bargaining Agreement.
2. *Slips, Trips & Fall Protection* video was presented. A discussion was held sharing areas where operators need to be mindful of slipping and/or tripping.

B. Safety Concerns

1. AED pads need to be replaced

✓ Pads are on back order

2. No other concerns mentioned.

C. Safety Team Report

No additional concerns mentioned.

D. Open Discussion

1. Can some areas covered by diamond plate in Building #15 be removed to be able to wash down floors better?

✓ As long as there are no issues with fumes/odors.

2. Everyone was reminded that there will be one meeting in March. **Alexander Chemical** will be here March 14th at 9:30am to complete Chlorine and Sulfur Dioxide Safety training.

Next Meeting: MANDATORY
 Tuesday, March 14, 2023
 9:30am



SAFETY MEETING

March 14, 2023

9:30am

Agenda

I. Safety Minutes

Review minutes from February 2023

II. Old Business

There were no lost time accidents for the month of February 2023.

III. New Business

A. Safety Training

Chlorine and Sulfur Dioxide Safety Training; Alexander Chemical Corporation

B. Safety Concerns

C. Safety Team Leader Report

Safety Team leadership transferred from Alex Bowser to Jim Churney.

D. Open Discussion

Next Meeting: Thursday, April 13, 2023

9:30am & 1:30pm

ATTACHMENT

D

FIELD CALIBRATION SHEET

COMPANY: KRMA

CITY: KANKAKEE/BROOKMONT

FLOW METER MODEL: ISCO Signature

INFLUENT March 7th, 2023

PRIMARY DEVICE: PHARSHAL

FLOW: 0-516 GPM 0-13.20 IN

MEASURING DEVICE: ULTRASONIC

CHECK POINTS:

LEVEL? YES

FREE FLOWING? YES

TURBULENCE? NO

BLOCKAGE? Yes cleaned

SURFACE BUILD-UP? NO

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 24.125" Level 24.058

LEVEL AFTER: 24.121"

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 3/7/2023

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 March 7th, 2023

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 11" Level reading 11.09"

LEVEL AFTER: 11.09"

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: 3/7/2023

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 #1

Influent March 7th, 2023

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 30 MGD AS Found 29.87 MGD

LEVEL AFTER: 29.93 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: 3/7/23

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 March 7th, 2023

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: 24.125"

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: 3/7/2023

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 March 7th, 2023

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 30 MGD AS Found 29.94 MGD

LEVEL AFTER: 29.94 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: 3/7/2023

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 March 9th, 2023

PRIMARY DEVICE: 72" PIPE

FLOW: 0-115 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 49.5" As found 50.00"

LEVEL AFTER: 49.49"

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: 3/9/2023

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 March 9th, 2023

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 18.0" As found 18.040"

LEVEL AFTER: 18.040"

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: 3/9/2023

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

ATTACHMENT

E

February 2023 Monthly Pretreatment Sample Analysis (metals, cyanide & VOA) for the permitted industries were a total of **80 samples** and a total of **485 analyses**.

Gilster-Mary Lee Corporation	6 Samples
Hoffman Transportation, LLC	8 Samples
Kankakee Recycling & Disposal Facility	4 Samples
Liberty Landfill, LLC	12 Samples
Livingston Landfill	6 Samples
Natural Gas & Pipeline Co. of America	6 Samples
Newton County Landfill	11 Samples
Prairie View RDF	8 Samples
Tank Cleaning Solutions, LLC	13 Samples
Verdant Specialty Solutions US LLC	6 Samples

Volumes Received for February 2023 for trucked-in industries.

Gilster-Mary Lee Corporation	42,000 gals	7 loads
Hoffman Transportation, LLC	155,000 gals	31 loads
Kankakee Recycling & Disposal Facility	84,000 gals	12 loads
Liberty Landfill, LLC	815,342 gals	122 loads
Livingston Landfill	147,452 gals	22 loads
Natural Gas & Pipeline Co. of America	80,000 gals	16 loads
Newton County Landfill	499,119 gals	74 loads
Prairie View RDF	209,033 gals	37 loads
Tank Cleaning Solutions, LLC	214,389 gals	41 loads
Verdant Specialty Solutions US LLC	66,587 gals	12 loads
Totals:	2,312,922 gals	374 loads

The KRMA Facility received a total of **126 loads** of septage which totalled **438,100 gallons** for the month of February 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					
157,568	33	\$ 38	\$ 1	-	157319	249	199	\$ 0.0002	281,400	29	\$ 2,334	9,703	80					
149,937	30	\$ 47	\$ 2	-	149,689	248	208	\$ 0.0003	237,600	28	\$ 2,190	8,486	78					
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307,505	63	\$ 85	#DIV/0!	0	307,008	497	#DIV/0!	#DIV/0!	519,000	57	\$ 4,524	#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	Total Cost \$/day
41,951	32	\$ 28,538	1311	\$ 892	892
47,361	32	\$ 30,829	1480	\$ 963	963
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89,312	64	\$ 59,368	#DIV/0!	#DIV/0!	#DIV/0!
Total Therms	Days	Total Cost \$/Billing Period	Therms/Day	Total Cost \$/day	Total Cost \$/day

Annual Load / Gallon Totals

2023

Month Received	Gister-Way Lze Corporation	Hoffman Transportation, LLC	Kankakee Recycling & Disposal Facility	Lake County C&D Landfill	Laraway Recycling & Disposal Facility	Liberty 3 LGTE Plant - Wabash Valley Power Alliance	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	Zur Fed Solutions	Total	# Loads
January	40,000	150,000	21,000				1,753,315	200,568		50,000	802,409			205,948	204,684	32,941	24,000	2,884,615	463
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																			
April																			
May																			
June																			
July																			
August																			
September																			
October																			
November																			
December																			
Totals	82,000	305,000	105,000				1,969,657	348,020		130,000	1,301,528			414,991	419,073	99,528	24,000	5,197,767	837
Average	41,000	152,500	52,500				984,329	174,010		65,000	650,764			207,491	209,537	49,764	24,000	2,598,894	419
Treatment Costs as of 05/01/22	0.086	0.059	0.059	0.059	0.059	0.059	0.059	0.059	0.086	0.086	0.1	0.086	0	0.059	0.086	0.138	0.082		
Treatment Costs as of 05/01/21	0.082	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.082	0.082	0.08	0.082	0	0.056	0.082	0.131	0.071		



**Monthly TSS/BOD
Loading Report**
February, 2023

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	42,000	1,433	3,465
Hoffman Transportation, LLC	155,000	65	1,895
Kankakee Recycling & Disposal Facility	84,000	531	632
Liberty Landfill, LLC	815,342	632	13,334
Livingston Landfill	147,452	587	7,858
Natural Gas & Pipeline Co. of America	80,000	24	154
Newton County Landfill	499,119	2,135	76,639
Prairie View RDF	209,033	644	20,303
Tank Cleaning Solutions, LLC	214,389	189	3,571
Verdant Specialty Solutions US LLC	66,587	1,057	11,324
Totals:	2,312,922	7,296	139,176

Flows
KRMA Treatment Facility
February, 2023

Date	PRECIPITA INCHES	PLANT MGD	Kankakee MGD	BOURB. MGD	BradleyFlow MGD	AromaPark MGD
2/1/2023	0.00	12.00	7.91	2.947	1.116	0.034
2/2/2023	0.00	11.86	7.79	2.935	1.108	0.034
2/3/2023	0.00	11.51	7.53	2.871	1.074	0.036
2/4/2023	0.00	11.44	7.30	2.811	1.293	0.036
2/5/2023	0.00	11.61	7.52	2.715	1.339	0.036
2/6/2023	0.00	11.57	7.65	2.799	1.079	0.036
2/7/2023	0.00	11.53	7.71	2.711	1.081	0.031
2/8/2023	0.75	11.39	7.56	2.712	1.075	0.037
2/9/2023	0.03	17.88	9.42	5.824	2.598	0.042
2/10/2023	0.00	18.14	10.93	5.095	2.072	0.048
2/11/2023	0.00	14.76	8.43	4.313	1.963	0.048
2/12/2023	0.00	14.08	8.07	4.046	1.924	0.048
2/13/2023	0.00	13.22	7.59	3.751	1.836	0.042
2/14/2023	0.00	13.02	7.98	3.516	1.493	0.038
2/15/2023	0.00	12.81	7.94	3.269	1.570	0.034
2/16/2023	0.33	13.35	7.90	3.803	1.617	0.033
2/17/2023	0.00	13.57	8.05	3.920	1.567	0.039
2/18/2023	0.00	13.35	8.01	3.728	1.572	0.039
2/19/2023	0.00	12.91	7.71	3.584	1.576	0.039
2/20/2023	0.00	12.62	7.37	3.627	1.579	0.039
2/21/2023	0.16	12.52	7.67	3.241	1.572	0.035
2/22/2023	0.97	18.23	9.89	6.296	1.972	0.066
2/23/2023	0.00	23.07	11.52	7.764	3.710	0.070
2/24/2023	0.00	23.38	14.91	5.371	3.040	0.060
2/25/2023	0.00	18.67	11.43	4.701	2.480	0.060
2/26/2023	0.43	18.98	12.11	4.338	2.480	0.060
2/27/2023	0.31	22.25	11.61	8.094	2.470	0.076
2/28/2023	0.00	22.65	12.29	6.803	3.690	0.066
Total	2.98	422.39	251.79	117.385	51.947	1.262
Average	0.11	15.09	8.99	4.192	1.855	0.045
Minimum	0.00	11.39	7.30	2.711	1.074	0.031
Maximum	0.97	23.38	14.91	8.094	3.710	0.076
# of data	28	28	28	28	28	28