

AGENDA

KANKAKEE RIVER METROPOLITAN AGENCY MEETING

Tuesday, December 15, 2020 At 3PM

Location: REMOTE MEETING HELD VIA TELECONFERENCE/VIDEO CONFERENCE

On June 26, 2020, Governor Pritzker issued the fifth Gubernatorial Disaster Proclamation for all counties in the State of Illinois. Due to the COVID-19 health pandemic, Chair Chasity Wells-Armstrong has determined that an in-person meeting is not practical or prudent. As permitted by Public Act 101-0640, this meeting will be held without the physical presence of a quorum at the meeting location.

Directors, staff, participants and the public may attend by phone or video conference using the following:

<https://www.gotomeeting.com>

or dial 1 (872) 240-3212 when prompted enter conference PIN Access Code: 318-571-101

The public will be offered an opportunity to speak during the public comment portion per the agenda below.

I. Roll Call

II. Public Comment

III. Approval of Board Minutes

A. November 17, 2020 – Regular Board Meeting

IV. Reports

A. Operations & Maintenance Report

1. Monthly Report

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

1. Local Union 4.7% Rate Increase

V. Old Business

A. E-waste Update

B. Blowers Update

C. Capacity Analysis

VI. New Business

A. Rate Study Update

B. Approval for Leachate Treatment Agreement w/ Republic Services

C. Approval of 2021 Agenda and Board Meetings Dates

D. Approval to renew required ERISA Fidelity Bond and Fiduciary Liability Insurance

I. Executive Session

A. Personnel & Probable or Imminent Litigation

VII. Next Meeting

Tuesday, January 26, 2021 (3:00 P.M. in KRMA Boardroom OR via www.gotomeeting.com)

**KANKAKEE RIVER METROPOLITAN AGENCY
MINUTES
November 17, 2020 - 3:00 P.M**

On June 26, 2020, Governor Pritzker issued the fifth Gubernatorial Disaster Proclamation for all counties in the State of Illinois. Due to the COVID-19 health pandemic, Chair Chasity Wells-Armstrong has determined that an in-person meeting is not practical or prudent. As permitted by Public Act 101-0640, this meeting will be held without the physical presence of a quorum at the meeting location.

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In attendance:

Location: REMOTE MEETING HELD VIA TELECONFERENCE/VIDEO CONFERENCE

Board of Directors:

Mayor Chasity Wells-Armstrong, City of Kankakee
Mayor Paul Schore, Village of Bourbonnais
Mayor Brian Stump, Village of Aroma Park
Alderman Carl Brown, City of Kankakee
Marc Wakat, Representative, City of Kankakee
Elizabeth Kubal, Representative, 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
Dustin Scheppler, Asst. Superintendent, Operations
Melanie Gossett, Asst. Superintendent, Technical Services

Other:

Dan Small, Strand Associates

Chairperson Mayor Wells-Armstrong called the meeting to order.

I. **Roll Call**

Roll Call was taken. All Board members were present except for Dir Robert Romo via gotomeeting.com.

II. **Public Comment**

None

III. **Approval of Board Minutes**

A. **October 20, 2020 - Regular Board Meeting** - Motion to approve the October 20, 2020 Regular Board Meeting minutes was made by: Dir. Wakat and seconded by Dir Schore. All voted in favor. Motion Carries.

IV. **Reports**

A. **Operations & Maintenance Report**

1. **Monthly Report**

Art stated KRMA received four odor complaints. Dir Kubal asked per the new report, it shows it's the same person calling. Art replied, yes, the caller is the spokesperson for the neighborhood. Art continued by addressing the low flow coming into the plant indicating we are still right at our design loading capacity. The influent BOD was 27,000lbs and we are designed for 28,000lbs loading capacity.

B. **Executive Director Report**

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

Exec. Dir. Dave Tyson presented the monthly utility sheet. KRMA has contacted Aqua regarding the error in our water usage and they are replacing the meter. Natural gas seems to be running normal and within budget.

2. **Hauled In Waste Summary**

Exec. Dir. Tyson pointed out our Hauled-In Waste is running normal.

3. **Operations Report**

Exec Dir Dave Tyson stated the plant is performing very well, especially with the low flows. No recent incidents. Melanie continues to have safety meetings covering safety tips for all employees.

C. **Financial Report**

1. **Reports**

Karen Benson stated the Statement of Net Position shows a strong cash position. Statement of Revenue & Expenses shows the net change in position for the month was positive and slightly over budget. Although the sludge removal doubles the amount budgeted for the month we are still within budget for the fiscal year.

2. **Hauled in waste report**

None

3. **Flows Graphs**

Karen Benson stated the flow graphs are just for review, therefore, the municipalities can see where they are at throughout the year.

D. **Communications**

None

V. **Old Business**

A. **E-Waste update**

Exec Dir Dave Tyson stated he checked with the Kankakee County and they stated their state's attorney is working on the agreement and he's supposed to be getting it out to all the individual municipalities and our legal counsel. Attorney Neal Smith stated he has not heard from Kankakee County. Dave stated he will follow up with Kankakee County regarding the agreement.

B. **Blowers Update**

Dan Small from Strand Associates stated he has been in communication with Atlas Copco's installing contractor; still waiting to hear from them regarding their final installation schedule and dates. Attorney Smith added, per Board Directors request, that he notified Atlas Copco that KRMA expects the blowers to be installed by March 13, 2021, otherwise, KRMA will seek liquidated damages of \$250 dollars per day.

C. **NPDES-CMOM Report**

Exec Dave Tyson stated everything seems to be moving along, however, for us to complete the job properly, KRMA feels that there is a need for cost analysis of what we're billing and/or what we should be charging. Also stated, he recommends we stay with Strand Associates since they are already completing the capacity analysis. Art added, we have until 2023 to get this done. The state has given us a timetable; therefore, we need to start working before the state starts asking questions.

VI. **New Business**

A. **Approval for Strand Associates to conduct a Cost Analysis**

Exec Dir Dave Tyson stated this is a proposal KRMA is asking Strand Associates to do cost analysis, so we know what we should be charging for waste coming in here. The cost analysis report will not exceed \$17,000. Dir Schore asked if the completion date for the cost analysis will be January 29, 2021? Dan with Strand Associates stated he feels comfortable with that date, however, he can push to have it complete by the January 2021 board meeting. Motion to approve Strand Associates to conduct a cost analysis was made by Dir Schore and second by Dir Kubal. All voted in favor. Motion carries.

B. **Approval to redraft Agreement for Newton County**

Attorney Smith stated the Newton County agreement expires in May 2021. This contract may need to be extended for a short period of time while KRMA negotiates a longer term with more detail in the agreement with Newton County. Art stated he agreed with Attorney Smith and stated Newton County is seeking approval to inject this leachate into the ground. They are also looking at producing 106 million gallons of leachate for the following year coming up. Newton County wants to continue to utilize the station at East Gate and he thinks it could be greatly beneficial for KRMA to look at this as long-term. Art also stated this is not just a Newton County thing, but a Republic Services issue. KRMA wants to address the company itself and make this contract with Republic Services which consists of Newton County LF, Livingston LF, and Lake County LF. Dir Schore asked how long is long-term? Art replied, KRMA will first give them a 1-year option so we can monitor their BOD, TSS, ammonia levels, and phosphorus waste as well as metals closely. Exec Dir Dave Tyson added, once we get through the first year and get the cost analysis, we'll know where we're going. At that time we'll bring it back to the Board, then we can enter a long-term contract. Dir Wakat expressed his concern about expanding the plant, and what if we don't accept leachate, will KRMA need to expand the plant. Art replied, even if we stop taking the leachate, we will still need to expand the plant because of the industry we get waste from as well.

C. **Approval to seek NARP Consultant**

Exec Dir Dave Tyson asked for approval to bid out a NARP Consultant. Motion to approve seeking NARP Consultant was made by Dir Schore and second by Dir Brown. All voted in favor. Motion Carries.

D. **Approval for Local Limit Study**

Exec Dir Dave Tyson asked for approval to bid out a Local Limit Study. Motion to approve Local Limit Study was made by Dir Schore and second by Dir Brown. All voted in favor. Motion Carries.

VII. **Executive Session**

Motion to go into Executive Session to discuss Personnel, and probable or imminent litigation pursuant to Sections 2(C)(1) and 2(C)(11) of the open meetings act, was made by: Dir. Kubal and seconded by: Dir. Schore. Motion carried.

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

The Board went into Executive Session to discuss Personnel and probable or imminent litigation.

Motion to return to Open Session was made by: Dir. Brown and seconded by: Dir. Stump. Motion carried.

Roll call was taken, and all Board Members were present except for Dir Robert Romo.

With the Board back in open session, there was no motion.

VIII. **Next Meeting**

Next Regular Board Meeting- **Tuesday, November 17, 2020 (3:00 P.M. via gotomeeting.com)**

Motion to Adjourn was made by: Dir. Stump and seconded by Dir. Wakat. All voted in favor. Motion Carried.



Kankakee River Metropolitan Agency

Providing Wastewater Treatment to the Kankakee River Valley



Monthly Operations Report

November 2020

KRMA's NOVEMBER HIGHLIGHTS:

The KRMA Management staff, Administration and Representative of Strand Associates, held a video meeting to discuss the facility capacity loadings. This discussion was to determine the capability of the facility to treat the discharge waste from residential, commercial, industrial, septic and hauled-in special waste through year 2040.

The KRMA Board of Directors gave approval to conduct a: Cost of Service Study, this study will factor in the capacity loading plan through year 2040, request bid's for a NARP (Nutrient Assessment Reduction Plan) Consultant, to identify phosphorus input reduction from the river to help ensure that dissolve oxygen and offensive aquatic life are met, and Local Limits Study, to keep KRMA within compliance with NPDES discharge permit of pollutants, flow and load analysis, maximum loading, and local developments.

Assistant Superintendent, Melanie Gossett and Superintendent, Art Strother complete annual inspection per EPA Pretreatment Regulations, checking to make sure the landfills are producing waste within the scope of their permit with KRMA.

Assistant Superintendent, Dustin Scheppler continues to consult with DTS ensuring our Asset Software is working properly and implementing more usage of the software for the KRMA's daily activity.

The month of November, the KRMA staff met all limits of the Illinois Environmental Protection Agency 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)	289.02	171.99	81.323	30.357	1.112
Daily Average Flow (MGD)	9.49	5.73	2.711	1.012	0.037

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	4 mg/l
Total Suspended Solids (TSS) - Monthly Average	25 mg/l	12 mg/l
PH	6-9 SU	7.56 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 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, 14 years

Bryan Kennedy, O & M Operator Specialist, 4 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:	1055
Hours of Scheduled Work Orders Performed:	642.75

6.0 SLUDGE HANDLING

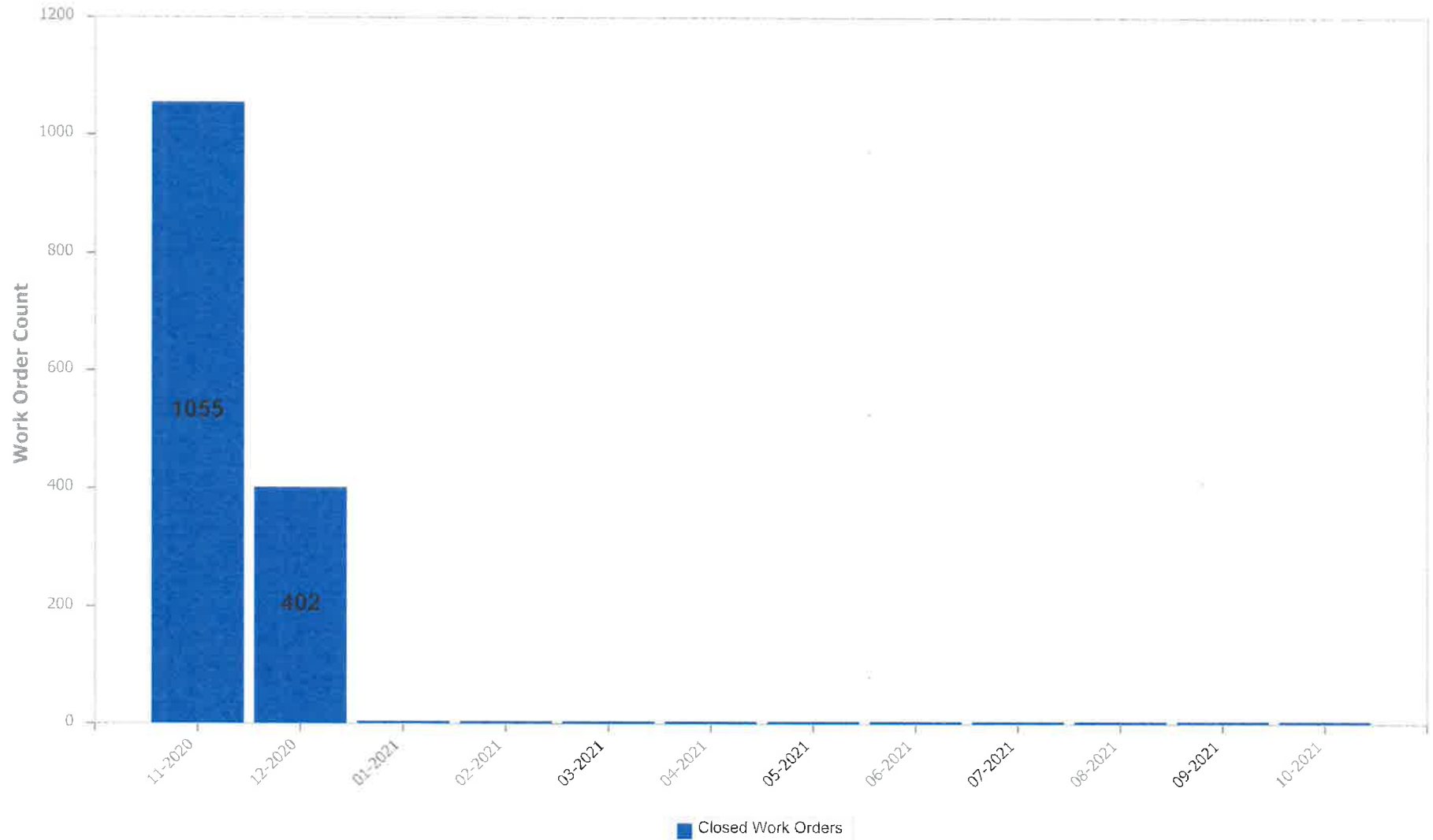
Start Date:	11/01/2020
End Date:	11/30/2020
Gallons of sludge produced and sent to thickening:	2,385,737.00
Gallons of sludge put into storage after thickening:	979,800.00
Sludge removed from the plant for land application:	922,800.00
Sludge remaining in storage as of December 31st:	2,645,000.00

7.0 WATER USAGE

NOVEMBER 2020 (31 DAYS): 52,804 CU FT= 365,000 GALS. = \$2028.26
NUMBER OF DAYS IN THE BILLING CYCLE: 31
THE NUMBER'S FOR NOVEMBER IS FROM KRMA METER READINGS

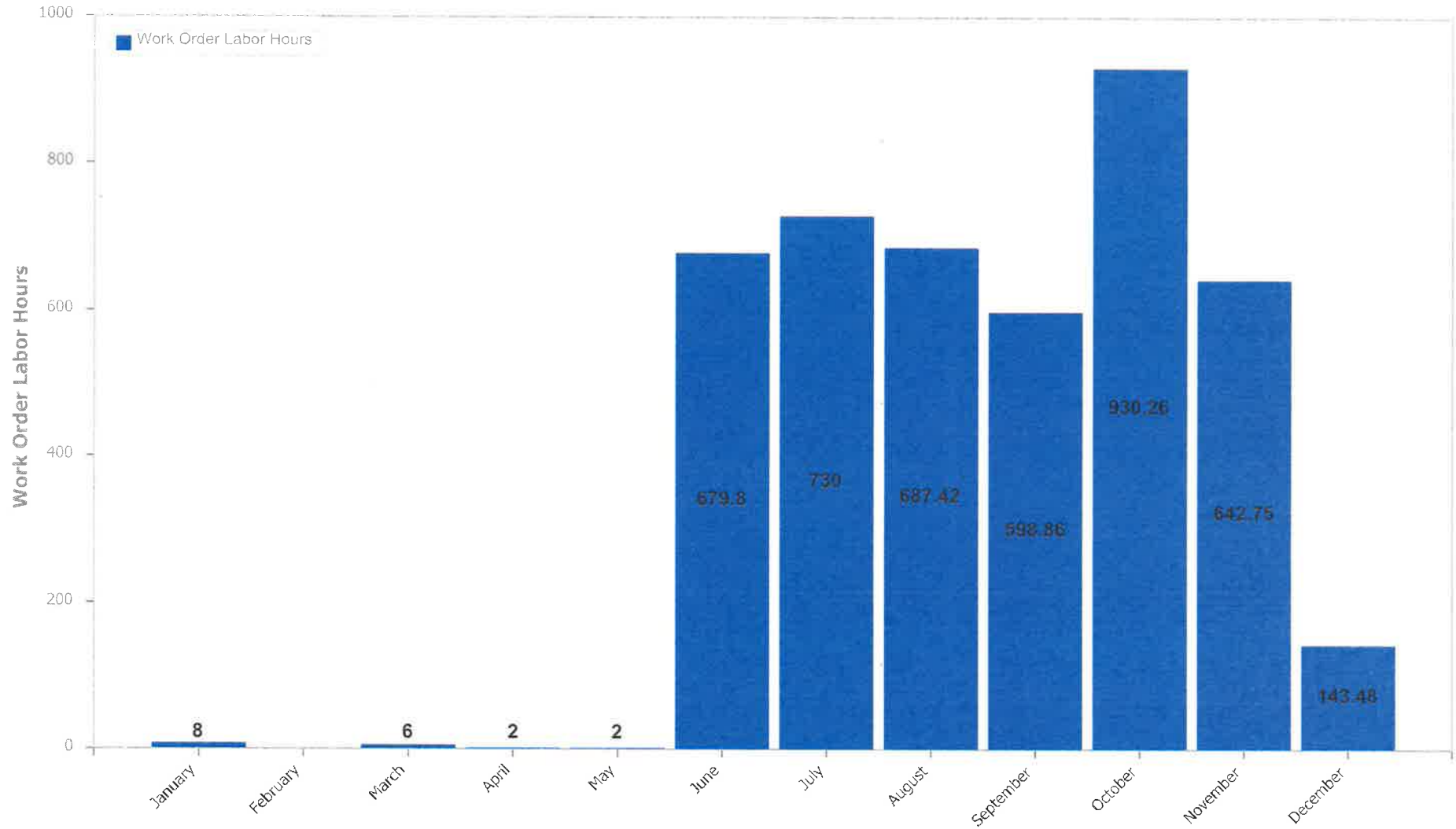
Work Orders Closed By Month

From November, 2020 to October, 2021



Work Order Labor Hours by Month

2020



ATTACHMENT

A

DMR Monthly Report

11/1/2020 to 11/30/2020

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
11/1/2020	8.705		9		653		2		145
11/2/2020	8.664	7.59	21		1,517		3		217
11/3/2020	9.351	7.40	14		1,092		4		312
11/4/2020	8.938	7.74	17		1,267		8		596
11/5/2020	8.939	7.76	15		1,118		6		447
11/6/2020	8.982	7.61	13		974				
11/7/2020	8.511		12	14	852	1,068		5	
11/8/2020	8.400		15		1,051				
11/9/2020	8.521	7.51	16		1,137		3		213
11/10/2020	9.299	7.11	13		1,008		5		388
11/11/2020	9.435		19		1,495		6		472
11/12/2020	9.042	7.42	12		905		5		377
11/13/2020	8.819	7.40	10		736				
11/14/2020	9.036		13	14	980	1,044	4	5	301
11/15/2020	10.792		17		1,530		5		450
11/16/2020	9.489	7.64	13		1,029		4		317
11/17/2020	9.275	7.46	13		1,006		4		309
11/18/2020	9.123	7.54	14		1,065		4		304
11/19/2020	9.154	7.70	13		992		3		229
11/20/2020	9.015	7.38	12		902				
11/21/2020	8.786		10	13	733	1,037	3	4	220
11/22/2020	9.792		10		817		3		245
11/23/2020	9.388	7.54	13		1,018		3		235
11/24/2020	10.900	7.62	12		1,091		4		364
11/25/2020	14.066	7.63	8		938				
11/26/2020	11.192		8		747				
11/27/2020	10.077		9		756				
11/28/2020	9.816		3	9	246	802		3	
11/29/2020	9.538		5		398				
11/30/2020	9.741	8.04	12		975		4		325

Minimum	8.400	7.11	3	9	246	802	2	3	145
Maximum	14.066	8.04	21	14	1,530	1,068	8	5	596
Average	9.493	7.56	12	13	968	988	4	4	323
Sum	284.786	136.09	371	51	29,027	3,951	83	16	6,467

DMR Monthly Report

11/1/2020 to 11/30/2020

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	%
11/1/2020				8.71	246	17,860	258	18,731	99
11/2/2020				8.66	450	32,516	640	46,245	99
11/3/2020				9.35	470	36,654	340	26,516	99
11/4/2020				8.94	89	6,634	302	22,512	91
11/5/2020				8.94	376	28,031	290	21,620	98
11/6/2020				8.98			302	22,623	
11/7/2020	344			8.51			252	17,887	
11/8/2020				8.40			194	13,591	
11/9/2020				8.52	331	23,523	294	20,893	99
11/10/2020				9.30	359	27,842	222	17,217	99
11/11/2020				9.44	382	30,059	194	15,265	98
11/12/2020				9.04	423	31,899	442	33,331	99
11/13/2020				8.82			344	25,301	
11/14/2020	350			9.04	262	19,744	196	14,771	98
11/15/2020				10.79	241	21,691	247	22,231	98
11/16/2020				9.49	294	23,267	286	22,634	99
11/17/2020				9.28	300	23,206	282	21,814	99
11/18/2020				9.12	321	24,424	566	43,065	99
11/19/2020				9.15	379	28,935	322	24,583	99
11/20/2020				9.02			202	15,187	
11/21/2020	305			8.79	209	15,315	94	6,888	99
11/22/2020				9.79	217	17,721	188	15,353	99
11/23/2020				9.39	269	21,062	214	16,755	99
11/24/2020				10.90	268	24,363	192	17,454	99
11/25/2020				14.07			146	17,127	
11/26/2020				11.19			82	7,654	
11/27/2020				10.08			128	10,757	
11/28/2020	281			9.82			174	14,245	
11/29/2020				9.54			198	15,750	
11/30/2020				9.74	284	23,072	292	23,722	99
Minimum	281			8.40	89	6,634	82	6,888	91
Maximum	350			14.07	470	36,654	640	46,245	99
Average	320			9.49	309	23,891	263	20,391	98
Sum	1,280			284.79	6,170	477,816	7,883	611,722	1,967

DMR Monthly Report

11/1/2020 to 11/30/2020

Var #	456	1040	1041	1042	1043	255	297	953	1023
Date	TSS REMOVAL %	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 Phosphoru s- TP(TNT) mg/l	Effluent Total Nitrogen mg/l
11/1/2020	97	7.10	7.22	7.16		0.05	3.63	0.22	
11/2/2020	97	6.84	6.94	6.89		0.26	18.79	0.46	
11/3/2020	96	7.74	7.88	7.81		6.05	471.82	0.76	
11/4/2020	94	7.56	7.74	7.65		4.65	346.62	1.50	34.80
11/5/2020	95	7.94	7.88	7.91		0.51	38.17	0.75	
11/6/2020	96	8.05	7.88	7.97					
11/7/2020	95	7.97	7.91	7.94	7.62				
11/8/2020	92	7.96	7.90	7.93		0.09	6.00	0.59	29.80
11/9/2020	95	7.98	7.90	7.94		0.09	6.50	0.39	
11/10/2020	94	7.63	7.57	7.60					
11/11/2020	90	8.07	8.02	8.05		3.14	247.08	3.47	
11/12/2020	97	8.07	8.02	8.05		0.99	74.58	0.82	
11/13/2020	97	8.18	8.12	8.15					
11/14/2020	93	8.10	8.05	8.08	7.97				
11/15/2020	93	8.39	8.34	8.37		0.05	4.50	0.50	90.00
11/16/2020	95	8.47	8.41	8.44		0.05	3.96	0.50	
11/17/2020	95	8.55	8.50	8.53		0.13	9.82	0.83	
11/18/2020	98	8.39	8.34	8.37		0.45	33.86	0.89	
11/19/2020	96	8.22	8.17	8.20		0.15	11.76	0.88	
11/20/2020	94	8.29	8.23	8.26					
11/21/2020	89	8.47	8.40	8.44	8.37				
11/22/2020	95	8.51	8.45	8.48		0.30	24.42	0.56	
11/23/2020	94	8.64	8.58	8.61		0.89	69.92	0.28	
11/24/2020	94	8.37	8.33	8.35		0.30	27.36	0.69	18.60
11/25/2020	95	8.15	8.14	8.15					
11/26/2020	90	8.76	8.72	8.74					
11/27/2020	93	8.83	8.78	8.81					
11/28/2020	98	8.70	8.66	8.68	8.54				
11/29/2020	97	8.74	8.69	8.72		0.08	6.36	0.44	19.40
11/30/2020	96	8.87	8.83	8.85		0.10	8.21	0.30	

Minimum	89	6.84	6.94	6.89	7.62	0.05	3.63	0.22	18.60
Maximum	98	8.87	8.83	8.85	8.54	6.05	471.82	3.47	90.00
Average		8.18	8.15	8.17	8.13	0.96	74.39	0.78	38.52
Sum	2,841	245.54	244.60	245.07	32.50	18.33	1,413.36	14.82	192.60

ATTACHMENT

B

ATTACHMENT

C



SAFETY MEETING
December 10, 2020
9:30am & 1:30pm
Agenda

I. Safety Minutes

Review minutes from November 2020

II. Old Business

No lost time accidents for November 2020

III. New Business

A. 401-K informational Session

Buckingham/Strategic Wealth presentation and Q&A

B. Safety Concerns

C. Safety Team Leader Report

Safety Team Leader responsibilities transferred from John Lund to Shawn Malone

D. Open Discussion

Next Meeting: Tuesday, January 12, 2020 9:30am & 1:30pm



SAFETY MEETING
November 10, 2020
9:30am & 1:30pm
Minutes

In attendance:

9:30am session:

Melanie Gossett, Facilitator

Shaun Ownbey	Dan Combs	Kurt Mraz
Max Gossett	Andy Summers	Dave Tyson

1:30pm session:

Melanie Gossett, Facilitator

Jack Renchen	Shawn Malone	Jim Churney	Ron Haney
Bryan Kennedy	Josh Peters	John Lund	Mike Arseneau

Nick Tucker

Absent:

Dustin Scheppler, Nick Scheppler, Brian Power, Mike Gowler

I. Safety Minutes

Reviewed minutes from October 8, 2020 – Approved.

II. Old Business

There were no lost time accidents reported for the month of October 2020.

III. New Business

A. Safety Training

1. Video presentation *Take Time for Safety* was viewed.
2. An accident evaluation in regards to recent non-lost time injury was discussed and ideas on how to prevent it from happening again were shared.

B. Safety Concerns

1. The driver's side doors on the GMC trucks are loose and need repair.

✓ Hinges repaired.

2. No other concerns shared.

C. Safety Team Report

John has created a narrative of locations for all 117 fire extinguisher throughout the facility. The list, along with a map previously created, is available from Melanie.

D. Open Discussion

1. Everyone was reminded of the 401-k Q&A session planned for the December Safety meeting.

2. PPE supply inventory update was given.

3. A concern about people putting oil in the wrong labeled container was shared.

4. There was a request for the number of W.O. generated and/or completed for the month to be included in the Safety meeting handouts. Everyone was reminded that this information is also available in the MOR posted on the bulletin board in building #10.

Next Meeting: **Thursday, December 10, 2020**
9:30am & 1:30pm

ATTACHMENT

D

FIELD CALIBRATION SHEET

COMPANY: KRMA

CITY: KANKAKEE

FLOW METER MODEL: Siemens Hydro Ranger #1

Influent December 2nd, 2020

PRIMARY DEVICE: Flume

FLOW: 0-73 MGD

MEASURING DEVICE: Ultrasonic

CHECK POINTS:

LEVEL? YES

FREE FLOWING? Yes

TURBULENCE? Yes

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 20.0 MGD As Found 20.07 MGD LEVEL AFTER: 20.07 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: 12/2/2020

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 December 2nd, 2020

PRIMARY DEVICE: PHARSHAL

FLOW: 0-21.36

MEASURING DEVICE: ULTRASONIC

CHECK POINTS:

LEVEL? YES

FREE FLOWING? NO

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 12.00" Level reading 12.067"

LEVEL AFTER: 12.067"

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: 12/2/2020

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 2nd, 2020

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? 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 24.125" Level 24.065 LEVEL AFTER: 24.126"

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 12/2/2020

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 2nd, 2020

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 20.12 MGD

LEVEL AFTER: 20.12 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: 12/2/2020

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 2nd, 2020

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? Yes

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 23.973"

LEVEL AFTER: 24.127"

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: 12/2/2020

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 8th, 2020

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 38.00" As found 38.075"

LEVEL AFTER: 38.075"

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: 12/8/2020

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 8th, 2020

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 12" As found 11.657"

LEVEL AFTER: 11.657" No adjustments made due to ISCO recommendations

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: 12/8/2020

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

ATTACHMENT

E

Monthly Pretreatment Program Totals

November 2020

November 2020 Monthly Pretreatment Sample Analysis (metals, cyanide & VOA) for the permitted industries were a total of **49 samples** and a total of **341 analyses**.

Gilster-Mary Lee Corporation	8 Samples
Hoffman Transportation, LLC	1 Sample
Liberty Landfill, LLC	11 Samples
Livingston Landfill	5 Samples
Natural Gas & Pipeline Co. of America	2 Samples
Newton County Landfill	6 Samples
Prairie View RDF	2 Samples
Solvay USA Inc.	4 Samples
Tank Cleaning Solutions, LLC	8 Samples
Zutat Feed Solutions	2 Samples

Volumes Received for November 2020 for trucked-in industries.

Gilster-Mary Lee Corporation	69,000 gals	12 loads
Hoffman Transportation, LLC	5,000 gals	1 load
Kankakee Recycling & Disposal Facility	0 gals	0 loads
Lake County C&D Landfill	0 gals	0 loads
Laraway Recycling & Disposal Facility	0 gals	0 loads
Liberty Landfill, LLC	898,510 gals	136 loads
Livingston Landfill	165,402 gals	26 loads
Natural Gas & Pipeline Co. of America	15,000 gals	3 loads
Newton County Landfill	333,043 gals	51 loads
Peoria Packing Co.	0 gals	0 loads
Prairie View RDF	19,716 gals	3 loads
Solvay USA Inc.	43,745 gals	8 loads
Tank Cleaning Solutions, LLC	178,778 gals	34 loads
Zutat Feed Solutions	48,000 gals	8 loads
Totals:	1,776,194 gals	282 loads

The KRMA Facility received a total of **175 loads** of septage which totalled **599,200 gallons** for the month of November 2020

KRMA YEARLY UTILITY USAGE - (YEAR)

	KRMA ELECTRIC ENERGY USE									KRMA WATER USE				
	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
JANUARY	949,984	31	\$ 46,799	\$ 1,510		260544	689,440	1,277	\$ 0.0493	360,000	33	\$ 2,663	10,909	81
FEBRUARY	839,904	35	\$ 51,423	\$ 1,469		108,341	731,563	1,000	\$ 0.0612	300,000	33	\$ 2,336	9,091	71
MARCH	951,132	31	\$ 45,775	\$ 1,477		215,667	735,465	1,278	\$ 0.0481	350,000	29	\$ 2,608	12,069	90
APRIL	834,529	29	\$ 40,239	\$ 1,388		199,857	634,672	1,199	\$ 0.0482	380,000	29	\$ 2,829	13,103	98
MAY	954,846	30	\$ 46,728	\$ 1,558		189,479	765,367	1,326	\$ 0.0489	360,000	29	\$ 2,718	12,414	94
JUNE	866,806	29	\$ 44,430	\$ 1,532	190,805	221,918	454,083	1,245	\$ 0.0513	410,000	29	\$ 2,997	14,138	103
JULY	1,090,642	32	\$ 58,572	\$ 1,830	426,606	219,849	444,187	1,420	\$ 0.0537	480,000	34	\$ 3,388	14,118	100
AUGUST	690,341	29	\$ 36,180	\$ 1,248		189,320	501,021	992	\$ 0.0524	450,000	32	\$ 3,220	14,063	101
SEPTEMBER	902,779	30	\$ 39,084	\$ 1,303	135504	170854	596,421	1,254	\$ 0.0433	60,000	31	\$ 1,001	1,935	32
OCTOBER	853,628	32	\$ 36,282	\$ 1,134	155,521	180,910	517,197	1,111	\$ 0.0425	-	33	\$ 497	0	15
NOVEMBER	750,426	31	\$ 44,165	\$ 1,425		14,337	736,089	1,009	\$ 0.0589	-	28	\$ 995	0	36
DECEMBER	0			#DIV/0!				#DIV/0!	#DIV/0!				#DIV/0!	#DIV/0!
TOTAL	9,685,017	339	\$ 489,677	#DIV/0!	908,436	1,971,076	6,805,505	#DIV/0!	#DIV/0!			\$ 25,252	#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
JANUARY	40,548	31	\$ 15,363	1308 \$ 496
FEBRUARY	31,961	30	\$ 11,007	1065 \$ 367
MARCH	29,695	29	\$ 9,570	1024 \$ 330
APRIL	19,896	30	\$ 6,354	663 \$ 212
MAY	13,482	30	\$ 5,046	449 \$ 168
JUNE	8,022	31	\$ 3,146	259 \$ 101
JULY	7,160	30	\$ 2,835	239 \$ 95
AUGUST	10,363	31	\$ 3,978	334 \$ 128
SEPTEMBER	9,150	30	\$ 4,136	305 \$ 138
OCTOBER	23,032	31	\$ 8,429	743 \$ 272
NOVEMBER				#DIV/0! #DIV/0!
DECEMBER				#DIV/0! #DIV/0!
TOTAL	193,309	303	\$ 69,864	#DIV/0! #DIV/0!
	Therms	Days	Total Cost \$/Billing Period	Therms/Day Total Cost \$/day



Annual Load / Gallon Totals

2020

Month Received	Gilster-Mary Lee Corporation	Hoffman Transportation, LLC	Kankakee Recycling & Disposal Facility	Lake County C&D Landfill	Laraway Recycling & Disposal Facility	Liberty Landfill, LLC	Livingston Landfill	Natural Gas & Pipeline Co. of America	Newton County Landfill	Peoria Packing Co.	Prairie View RDF	Solvay USA Inc.	Tank Cleaning Solutions, LLC	Zutat Feed Solutions	Total	# Loads
January	70,000	60,000	21,000		240,843	600,159	164,827	100,000	2,593,084		144,591		152,301		4,146,805	651
February	91,000	40,000			586,575	686,291	134,003	70,000	2,124,046		27,896		167,380		3,927,191	618
March	51,000	30,000	21,000		367,664	1,408,230	186,443	100,000	2,645,561		32,673		160,916	36,000	5,039,487	783
April	89,000	20,000			104,652	1,807,281	177,859	60,000	2,911,502		15,756		124,203	54,000	5,364,253	825
May	58,000	35,000	14,000	108,215	510,902	2,102,360	222,303	130,000	1,795,237		38,022		124,047	42,000	5,180,086	824
June	113,000	20,000		244,022	1,229,074	1,886,549	178,260	45,000	3,130,192		32,698		146,465	55,300	7,080,560	1,122
July	95,000	15,000	14,000		302,477	1,790,160	136,557	55,000	2,770,098		130,476		159,652	42,000	5,510,420	868
August	98,000	15,000	7,000	47,452		1,759,185	170,391	15,000	1,359,434		221,033		174,061	36,000	3,902,556	611
September	87,000		7,000	12,702	5,405	1,863,802	173,564	35,000	533,068		73,731	5,541	192,543	54,000	3,043,356	485
October	99,000	10,000		31,784		1,523,149	151,944	15,000	605,327		223,792	21,568	159,548	42,000	2,883,112	457
November	69,000	5,000				898,510	165,402	15,000	333,043		19,716	43,745	178,778	48,000	1,776,194	282
December																
Totals	920,000	250,000	84,000	444,175	3,347,592	16,325,676	1,861,553	640,000	20,800,592		960,384	70,854	1,739,894	409,300	47,854,020	7,526
Average	83,636	25,000	14,000	88,835	418,449	1,484,152	169,232	58,182	1,890,963		87,308	23,618	158,172	45,478	4,350,365	684
Treatment Costs as of 05/01/20	0.082	0.056	0.056	0.056	0.056	0.056	0.056	0.082	0.056	0.082	0.056	0.131	0.082	0.071		
Treatment Costs as of 05/01/19	0.071	0.049	0.049	0.049	0.049	0.049	0.049	0.071	0.042	0.071	0.049	0.114	0.071	0.071		

2021

VI-C

January							February							March						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
					1	2	1	2	3	4	5	6	1	2	3	4	5	6		
3	4	5	6	7	8	9	7	8	9	10	11	12	13	7	8	9	10	11	12	13
10	11	12	13	14	15	16	14	15	16	17	18	19	20	14	15	16	17	18	19	20
17	18	19	20	21	22	23	21	22	23	24	25	26	27	21	22	23	24	25	26	27
24	25	26	27	28	29	30	28							28	29	30	31			
31																				

BOARD MEETING
AGENDA SETTING MEETING

April							May							June						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3						1			1	2	3	4	5	
4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12
11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19
18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26
25	26	27	28	29	30		23	24	25	26	27	28	29	27	28	29	30			
							30	31												

July							August							September						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
				1	2	3	1	2	3	4	5	6	7				1	2	3	4
4	5	6	7	8	9	10	8	9	10	11	12	13	14	5	6	7	8	9	10	11
11	12	13	14	15	16	17	15	16	17	18	19	20	21	12	13	14	15	16	17	18
18	19	20	21	22	23	24	22	23	24	25	26	27	28	19	20	21	22	23	24	25
25	26	27	28	29	30	31	29	30	31					26	27	28	29	30		

October							November							December						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
				1	2		1	2	3	4	5	6			1	2	3	4		
3	4	5	6	7	8	9	7	8	9	10	11	12	13	5	6	7	8	9	10	11
10	11	12	13	14	15	16	14	15	16	17	18	19	20	12	13	14	15	16	17	18
17	18	19	20	21	22	23	21	22	23	24	25	26	27	19	20	21	22	23	24	25
24	25	26	27	28	29	30	28	29	30					26	27	28	29	30	31	
31																				

USA Holidays and Observances

Jan 01	New Year's Day	Jan 18	M L King Day	Feb 14	Valentine's Day
Feb 15	Presidents' Day	Apr 02	Good Friday	Apr 04	Easter Sunday
May 09	Mother's Day	May 31	Memorial Day	Jun 04	National Donut Day
Jun 20	Father's Day	Jul 04	Independence Day	Jul 05	