

AGENDA

KANKAKEE RIVER METROPOLITAN AGENCY MEETING

Thursday, June 24, 2021

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. May 25, 2021 – 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. Blowers Update
 - B. Republic Service Update
 - C. E-Waste Update
 - D. CSL Update
 - E. Proposed Draft Budget Ordinance No. 2020-01 for fiscal year end April 30, 2022
- VI. **New Business**
 - A. Capacity Proposal Discussion
 - B. Summer Help
 - C. Approval of NARP Proposal
 - D. Discuss amending By-Laws to reduce compensation of KRMA Directors
- VII. **Executive Session**
 - A. Personnel & Probable or Imminent Litigation
- VIII. **Next Meeting**

Thursday, July 22, 2021 (9:00 AM in KRMA Boardroom)

KANKAKEE RIVER METROPOLITAN AGENCY
MINUTES
May 25, 2021 – 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
Mayor Brian Stump, Village of Aroma Park
Financial Director Robert Romo, Village of Bradley
Alderman Danita Swanson, City of Kankakee
Alderman Larry Osenga, City of Kankakee
Steven Hunter, 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
Terry J. Memenga, Village of Bradley

Vice-Chairman, Mayor Schore, called the meeting to order

Executive Director Dave Tyson read an announcement from City of Kankakee naming the new Elected Officials for the KRMA Board.

I. **Roll Call**

II. **Election of Officers for FY 2021-2022**

- A. **Chairperson** (Currently Chasity Wells-Armstrong) – Dir Hunter nominated Mayor Christopher Curtis for Chairman; Dir Stump seconded that motion. There were no other nominations. Motion passed unanimously. Motion carries.
- B. **Vice-Chairman** (Currently Paul Schore) – Dir Hunter nominated Mayor Paul Schore for Vice-Chairman; Chairman Curtis seconded that motion. There were no other nominations. Motion passed unanimously. Motion carries.
- C. **Secretary** (Currently Brian Stump) – Dir Schore nominated Mayor Brian Stump for Secretary; Chairman Curtis seconded that motion. There were no other nominations. Motion passed unanimously. Motion carries.

III. **Public Comment**

None

III. **Approval of Board Minutes**

- A. **April 27, 2021 – Regular Board Meeting** – Motion to approve the April 27, 2021, Regular Board Meeting minutes was made by: Dir. Schore and seconded by Dir Hunter. All board member present voted in favor; Dir Romo was absent. Motion Carries.

IV. Reports

A. Operations & Maintenance Report

1. Monthly Report

Art introduces his Administrative KRMA staff and Dan Small, Strand Associates, to the new Board of Directors.

Dir Robert Romo joined the meeting.

Art presents the Monthly Operation Report (MOR) which is put together by the Management Staff. The MOR is to help you see what goes on at KRMA. Each attachment has a break down:

- Attachment A- Discharge Monitoring Report (DMR) which is sent to the IEPA
- Attachment B- Monthly Flows Report
- Attachment C- Safety Program ran by Melanie Gossett
- Attachment D- Field Calibration of the flow meters that is required by the IEPA
- Attachment E- Monthly Pretreatment Program Totals

Dir Romo asked if the reports can be edited to add what's allowable and what's not allowable? Art replied yes, and referred him to the graphs in Attachment A. Chairman Curtis asked, is there anything we should be advise of? Art explained, anything concerning will be in red, which is ammonia right now, referring to the graphs in Attachment A. KRMA had three excursions in the month of April. There is a daily requirement per our permit to report ammonia levels and excursions. Dir Schore added that ammonia has become a problem, that is why our Engineering team and staff are working on a goal for a solution to our problem.

B. Executive Director Report

Exec Dir Dave Tyson gave out a copy of the Intergovernmental Agreement (IGA) and By-Laws.

1. Water, Gas & Electric Use/Cost

Exec. Dir. Dave Tyson presented the monthly utility sheets. Exec Dir Tyson stated our generator is back up and running, therefore there will be a difference in MidAmerica bill going forward. The water bill is still not accurate, we will continue to work with Aqua. Everything else seems to be in line. Dir Romo asked about the electric that comes from the hydro. Exec Dir Tyson stated all the energy they produce comes to the KRMA facility.

2. Hauled In Waste Summary

Exec. Dir. Tyson stated hauled in waste is consistent.

3. Operations Report

Exec Dir Dave Tyson stated generator is back on-line. There's a new requirement under our IEPA Permit that we must start monitoring the nutrient that is being discharged into the river. Exec Dir Tyson explained the purpose, process, and expense that the NARP (Nutrient Assessment Reduction Plan) Program is going to take to get it started and going effectively. Dir Hunter asked do we interface with Northern Illinois Angler Association (NIAA) regarding discharge? Exec Dir Tyson stated we will network with other municipalities and NIAA to see if they would like to participate. Chairperson Curtis asked, is the cost reflected within the budget? Exec Dir Tyson replied yes there is a budget line item for consultants.

a. Approval to seek New Hire

Exec Dir Tyson explain that KRMA is down one O & M Operator and would like to start the process of interviewing for a new hire. There were questions about the interview process, advertising, and hiring experience. All questions were answer by Exec Dir Tyson, Art, and Melanie concerning these matters. There was also a suggestion on other ways and places to advertise the position.

C. Financial Report

1. Reports

Karen Benson explained what is presented each month to show how the allocated expenses and collection of revenue effects each municipality. She discusses the balance sheet, stating net position is good. She discusses the receivable and the bond covenant requirement and the revenue and debt payments and how it has been collected and why. Also, explained the number they see on monthly financial may not be accurate due to the timing and when payment was received. Dir Schore gave clarification on how each municipality bill is calculated and based on owner shares and influent used annually if it changes. Karen

gave a breakdown of the capital assets and other assets accounts. KRMA has the bond debt and seven IEPA loans we are currently paying on. Dir Hunter asked what's the interest rate? Karen replied, very low, one-two percent. Dir Romo showed concern about KRMA debt. Karen reiterated that debt service makes up half of KRMA budget, stating the length of time on each debt owed. Karen also discusses the Revenue and Expense elaborating how the revenue of hauled in waste assist KRMA and helps keeps fees low for municipalities. Dir Hunter asked how is hauled in waste determined? Art replied they are considered industrial. Melanie added we have 16 industrials, 7 of which are leachate haulers and 16 septic haulers. Then she explained the procedures for being able to bring waste to KRMA. Chairperson Curtis asked who is our auditor? Karen replied WIPFLI and they have been our auditor for the last 5-7 years and it has not been bid, however, when KRMA does bid, the potential auditors need to be aware and understand how KRMA receivables are recorded.

2. **Hauled In Waste Report**

Karen stated hauled in waste continues to bring in revenue.

3. **Flows Graphs**

Karen Benson presented the flow graphs explaining the difference between the estimation flow that each municipality is budgeted for based off their average flow for the fiscal year for the financial versa their actual flow per month and the percentage total ownership of KRMA.

D. **Communications**

None

V. **Old Business**

A. **Blowers Update**

Exec Dir Tyson gave a brief update to the new member regarding the new blowers. Two of the four blowers have been installed.

B. **Republic Service Update**

Exec Dir Tyson stated KRMA gave Republic Services a proposal agreement to raise their fee to ten cents a gallon. Republic Services asked for one month extension at the current rate, so they can discuss and counteract with a contract. Chairperson asked will the contract be retroactive or start once agreed upon. Exec Dir Tyson stated once agreed upon.

C. **E-Waste Update**

Exec Dir Tyson stated Belson's is accepting e-waste six days a week. We have informed our contractor for e-waste they are done at the end of May 2021. It will up to the individual municipalities to go ahead and shut their sites down.

D. **CSL Update**

Exec Dir Tyson stated CSL is moving ahead with their pretreatment plan. CSL stated they will have plans to us by end of this month. Alan, who is head of our lab, is KRMA's point of contact with CSL, and we are working to get another meeting setup so KRMA can stay in the loop to what's going on.

E. **Approval of Exempt Employees Pay Raise**

Discuss in Executive Session

VI. **New Business**

A. **Proposed Draft Budget Ordinance No. 2020-01 for fiscal year end April 30, 2022**

Karen presented and explained per line item the proposed budget for the Board Member review. Dir Schore stated the Village of Bourbonnais will be paying off their portion of the Bonds and there will have to be some adjustment done when this takes place. This payoff will affect the debt service.

B. **Strand Associates-Plant Expansion Presentation**

Dan Small, Strand Associates presented a PowerPoint regarding expansion of the plant. There were questions about capital cost, number of gallons that will be coming from Republic Services, the length of the contract Republic Services is willing to sign. These questions were discussed. Also, Karen elaborated on the debt layers

as well. Dave closed the presentation stating we want to start working with global representatives and federal lobbyist to assist in finding free money.

C. **Exempt Employees Health Insurance**

Karen presented the Health Insurance break down for the management team annual renewal. Motion to approve Exempt Employees Health Insurance was made by Dir Swanson, seconded by Dir Schore. All members voted in favor. Motion Carries

D. **401K Administrator**

Karen stated that the language for title of the administrator has been changed to reflect Chair and Vice Chair. Therefore, we don't have to change the name when there is turnover within the board members.

E. **Admin for First Trust**

Karen stated the Chairman will be the Administrator of the First Trust Bank.

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. Osenga and seconded by: Dir. Stump. Motion carried.

Roll call was taken, and all Board Members were present.

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

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

Roll call was taken, and all Board Members were present.

With the Board back in open session, there was one motion.

Motion to approve the Exempt Employees Pay Raise made by Dir Swanson and second by Dir Hunter. All board members voted in favor. Motion Carries

VIII. **Next Meeting**

Next Regular Board Meeting- **Thursday, June 24, 2021 (9:00 A.M. at KRMA Board Room)**

Motion to Adjourn was made by: Dir. Stump and seconded by Dir. Romo. All board members present voted in favor. Motion carried.



Providing Wastewater Treatment to the Kankakee River Valley



**SAFETY MEETING
SPEAKER
ALEXANDER CHEMICAL**

Monthly Operations Report

May 2021

KRMA's MAY HIGHLIGHTS:

The Kankakee Metropolitan River Agency made contact with the Conservation Foundation for assistance with a plan regarding the National Pollutant Discharge Elimination System (NPDES) permit, **Special Condition 20**. The Conservation Foundation responded with schematics and photos of equipment for sampling. Also provided documentation to proceed with the Nutrient Assessment Reduction Plan (NARP) which KRMA is to submit to the IEPA by December 31, 2023.

The Agency submitted the required information requested by the USEPA pertaining to the compliance requirements with the Clean Water Act. This information main focus is on The Agency pretreatment program profile and pretreatment program status update. Due to the painstaking effort in gathering and compiling the requested information, acknowledgement for the excellent work performed by Melanie Gossett, Assistant Superintendent of Technical Services, Jennifer Salan, Administrative Assistant, Tawonda Brown-Davis, Office Coordinator, and Alan Toronjo, Industrial Services Coordinator for the City of Kankakee, The Agency offers its' appreciation.

The Kankakee Metropolitan Agency placed ads as to its' intent to hire Operator/Maintenance Specialist. The ads will stay posted until end of business day June 25, 2021.

The KRMA staff began annual maintenance on plant equipment which involves mainly primary and secondary treatment structures.

The month of May, 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)	525.18	346.57	116.826	60.497	1.290
Daily Average Flow (MGD)	16.94	11.18	3.769	1.952	0.042

3.0 EFFLUENT QUALITY

Table 3.1 Summarizes the effluent quality data.

Table 3.1
Effluent Quality

	IEPA Limits	Effluent Average
Biochemical Oxygen Demand (BOD) – Monthly Average	20 mg/l	6 mg/l
Total Suspended Solids (TSS) - Monthly Average	25 mg/l	11 mg/l
PH	6-9 SU	7.29 SU
Chlorine Residual	0.05 mg/l	N/A0.015mg/l
Fecal Coliform	400/100 ml	16 ml

ODOR ISSUES:

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

4.0 PERSONNEL

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

Shaun Ownbey, Lead O & M Operator Specialist, 16 years

Michael Gowler, O & M Operator Specialist, 7 years

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

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:	741.73

6.0 SLUDGE HANDLING

Start Date:	05/01/2021
End Date:	05/31/2021

Gallons of sludge produced and sent to thickening:	3,016,852.00
Gallons of sludge put into storage after thickening:	1,104,600.00
Sludge removed from the plant for land application:	647,400.00
Sludge remaining in storage as of March 30th:	1,786,000.00

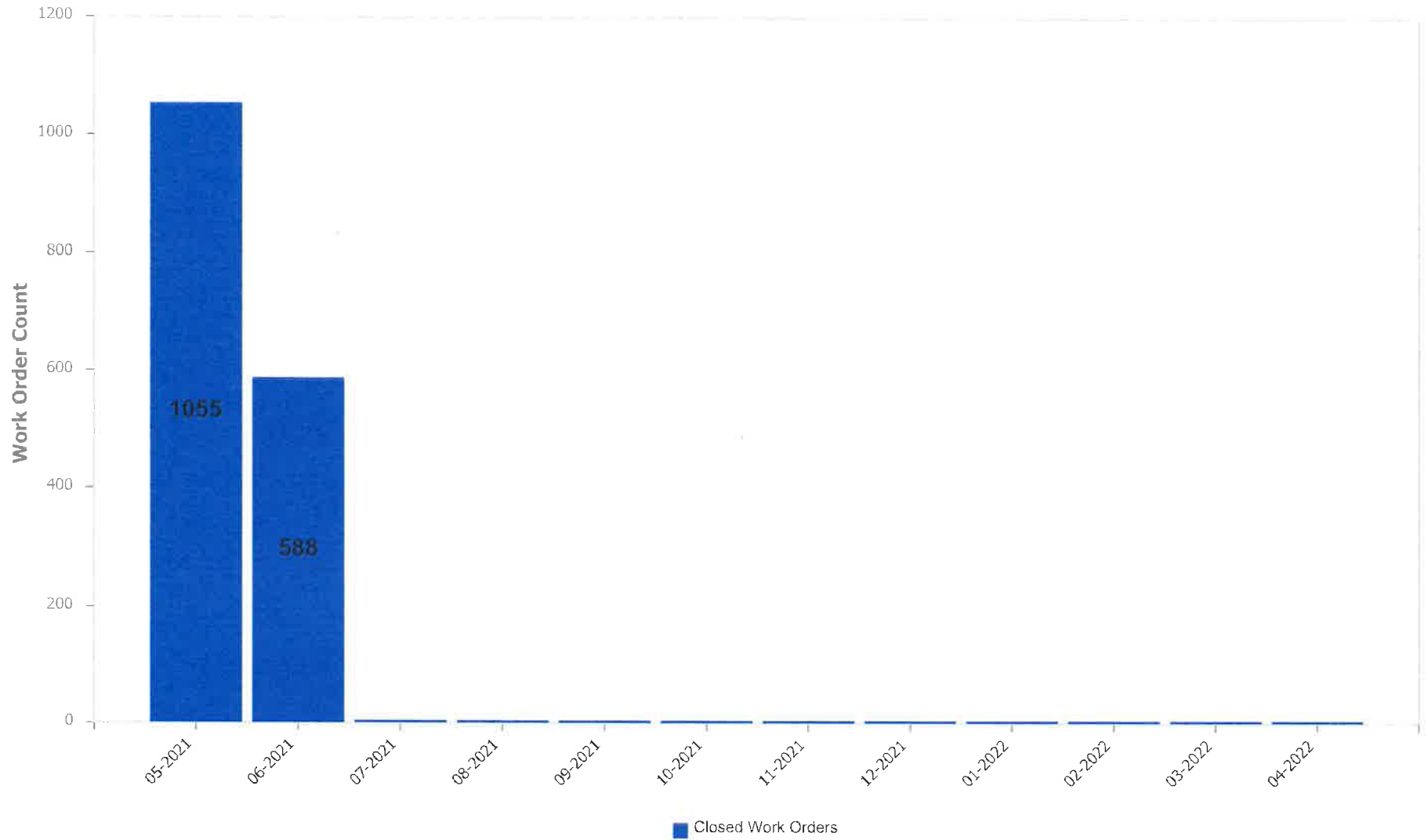
7.0 WATER USAGE

MAY 2021 (37 DAYS): 64,169 CU FT= 480,000 GALS. = \$ 3,620.65

NUMBER OF DAYS IN THE BILLING CYCLE: 37

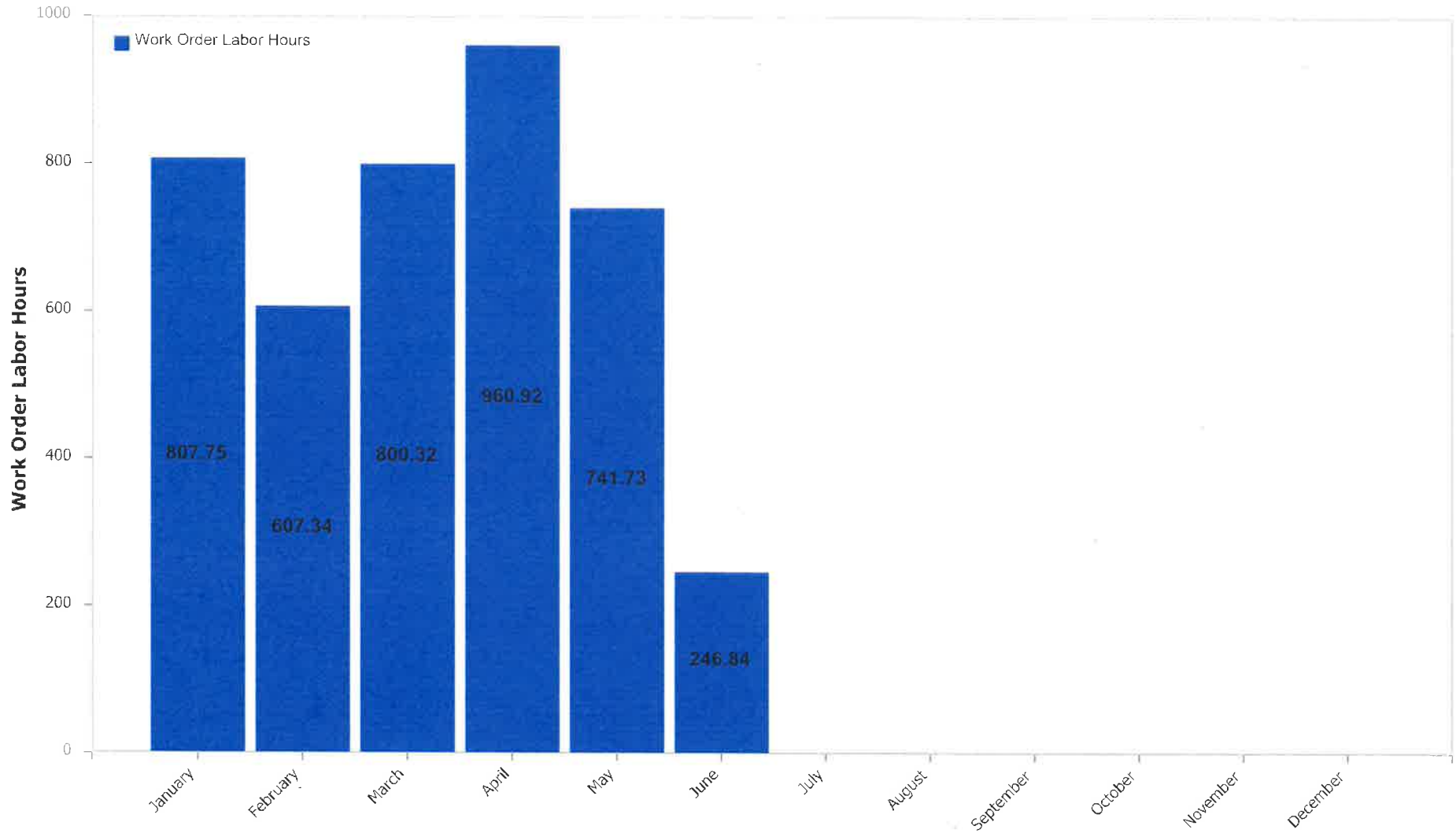
Work Orders Closed By Month

From May, 2021 to April, 2022



Work Order Labor Hours by Month

2021



ATTACHMENT

A

DMR Monthly Report

5/1/2021 to 5/31/2021

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
5/1/2021	16.409		6	38	821	5,117	4	8	547
5/2/2021	14.603		15		1,827		6		731
5/3/2021	13.650	7.40	16		1,821		18		2,049
5/4/2021	13.893	7.44	16		1,854		7		811
5/5/2021	13.252	7.31	17		1,879		14		1,547
5/6/2021	12.734	7.26	23		2,443		6		637
5/7/2021	12.703	6.97	12		1,271				
5/8/2021	12.311		7	15	719	1,688	5	9	513
5/9/2021	36.440		64		19,450		16		4,863
5/10/2021	37.260	7.31	15		4,661		4		1,243
5/11/2021	29.829	7.52	10		2,488		6		1,493
5/12/2021	24.423	7.21	12		2,444		3		611
5/13/2021	21.893	7.22	12		2,191		5		913
5/14/2021	19.911	7.24	2		332				
5/15/2021	18.019		4	17	601	4,595	4	6	601
5/16/2021	16.141		4		538		3		404
5/17/2021	14.824	7.34	12		1,484		4		495
5/18/2021	14.553	7.16	15		1,821		6		728
5/19/2021	14.366	7.22	12		1,438		5		599
5/20/2021	14.187	7.20	13		1,538		5		592
5/21/2021	13.440	7.23	8		897				
5/22/2021	13.161		4	10	439	1,165	3	4	329
5/23/2021	13.058		13		1,416		3		327
5/24/2021	12.475	7.29	6		624		5		520
5/25/2021	12.337	7.18	8		823		4		412
5/26/2021	14.335	7.08	10		1,196		5		598
5/27/2021	14.677	7.83	6		734		8		979
5/28/2021	15.697	7.38	3		393				
5/29/2021	16.063		4	7	536	817	3	5	402
5/30/2021	15.214		3		381		3		381
5/31/2021	13.323		3		333		3		333

Minimum	12.311	6.97	2	7	332	817	3	4	327
Maximum	37.260	7.83	64	38	19,450	5,117	18	9	4,863
Average	16.941	7.29	11	17	1,916	2,676	6	6	876
Sum	525.181	145.79	355	87	59,393	13,382	158	33	23,657

Limit		Range 6-9	25	45	5,213	9,383	20	40	4,170
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DMR Monthly Report

5/1/2021 to 5/31/2021

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	%
5/1/2021	1,101			16.41	132	18,064	56	7,664	97
5/2/2021				14.60	101	12,301	55	6,698	94
5/3/2021		0.017	4	13.65	251	28,574	144	16,393	93
5/4/2021		0.015	6	13.89	254	29,430	174	20,161	97
5/5/2021		0.006	2	13.25	238	26,304	104	11,494	94
5/6/2021		0.034	208	12.73	266	28,250	170	18,054	98
5/7/2021		0.020	3	12.70			174	18,434	
5/8/2021	1,048			12.31	153	15,709	96	9,857	97
5/9/2021				36.44	48	14,588	34	10,333	67
5/10/2021		0.011	14	37.26	109	33,872	29	9,012	96
5/11/2021		0.007	18	29.83	188	46,769	43	10,697	97
5/12/2021		0.009	3	24.42	157	31,979	35	7,129	98
5/13/2021		0.023	9	21.89	279	50,942	294	53,681	98
5/14/2021		0.020	1	19.91			52	8,635	
5/15/2021	1,621			18.02	69	10,369	45	6,763	94
5/16/2021				16.14	79	10,635	37	4,981	96
5/17/2021		0.018	0	14.82	251	31,032	204	25,221	98
5/18/2021		0.012	4	14.55	322	39,082	192	23,303	98
5/19/2021		0.021	4	14.37	368	44,091	224	26,838	99
5/20/2021		0.028	2	14.19	373	44,133	208	24,610	99
5/21/2021		0.014	1	13.44			190	21,297	
5/22/2021	524			13.16	191	20,965	88	9,659	98
5/23/2021				13.06	169	18,405	64	6,970	98
5/24/2021		0.015	2	12.48	243	25,282	76	7,907	98
5/25/2021		0.013	1	12.34	230	23,665	144	14,816	98
5/26/2021		0.008	32	14.34	231	27,617	70	8,369	98
5/27/2021		0.014	1	14.68	255	31,214	61	7,467	97
5/28/2021		0.003	0	15.70			180	23,564	
5/29/2021	540			16.06	146	19,559	26	3,483	98
5/30/2021				15.21	79	10,024	31	3,933	96
5/31/2021				13.32	83	9,222	32	3,556	96

Minimum	524	0.003	0	12.31	48	9,222	26	3,483	67
Maximum	1,621	0.034	208	37.26	373	50,942	294	53,681	99
Average	967	0.015	16	16.94	195	26,003	107	13,903	96
Sum	4,834	0.308	315	525.18	5,265	702,076	3,332	430,980	2,588

Limit	8,340	0.05	400						
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DMR Monthly Report

5/1/2021 to 5/31/2021

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
5/1/2021	89	7.77	7.87	7.82	7.76				
5/2/2021	73	8.16	8.23	8.20		1.02	124.22	1.03	
5/3/2021	89	7.94	8.00	7.97		1.05	119.53	0.89	
5/4/2021	91	8.01	8.09	8.05		1.36	157.58	1.09	
5/5/2021	84	8.01	8.10	8.06		0.27	30.06	0.98	12.60
5/6/2021	86	7.93	8.05	7.99		1.67	177.36	1.12	
5/7/2021	93	7.88	8.02	7.95					
5/8/2021	93	7.95	8.16	8.06	8.04				
5/9/2021	-88	7.91	7.98	7.95		2.02	613.90	2.22	
5/10/2021	48	8.33	8.23	8.28		1.11	344.93	1.25	
5/11/2021	77	7.98	7.90	7.94		0.26	64.43	0.86	
5/12/2021	66	8.00	7.90	7.95		0.21	42.57	0.69	13.90
5/13/2021	96	8.02	7.87	7.95		0.96	174.55	0.82	
5/14/2021	96	8.05	7.84	7.95					
5/15/2021	91	8.35	8.11	8.23	8.03				
5/16/2021	89	8.54	8.26	8.40		0.05	6.73	0.45	
5/17/2021	94	8.48	8.14	8.31		0.05	6.18	0.15	10.60
5/18/2021	92	7.95	7.68	7.82		0.52	63.11	0.58	
5/19/2021	95	7.72	7.41	7.57		0.49	58.47	0.00	
5/20/2021	94	7.68	7.34	7.51		0.07	7.81	0.97	
5/21/2021	96	7.70	7.34	7.52					
5/22/2021	95	7.55	7.28	7.42	7.79				
5/23/2021	80	7.29	7.29	7.29		0.05	5.45	0.47	
5/24/2021	92	7.57	7.22	7.40		0.05	5.20	0.44	51.20
5/25/2021	94	7.22	7.04	7.13		0.06	6.34	0.65	
5/26/2021	86	6.94	6.94	6.94		0.06	7.50	0.90	
5/27/2021	90	6.97	7.04	7.01		0.05	6.12	1.51	
5/28/2021	98	7.00	7.30	7.15					
5/29/2021	85	6.99	8.38	7.69	7.23				
5/30/2021	90	7.65	8.00	7.83					
5/31/2021	91	7.76	8.08	7.92		0.11	11.89	0.32	

Minimum	-88	6.94	6.94	6.94	7.23	0.05	5.20	0.00	10.60
Maximum	98	8.54	8.38	8.40	8.04	2.02	613.90	2.22	51.20
Average		7.78	7.78	7.78	7.77	0.55	96.85	0.83	22.08
Sum	2,544	241.30	241.09	241.20	38.85	11.48	2,033.94	17.37	88.30

Limit				>5.0	>6.25	7.9	1,647		
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DMR Monthly Report

5/1/2021 to 5/31/2021

Var #
Date
5/1/2021
5/2/2021
5/3/2021
5/4/2021
5/5/2021
5/6/2021
5/7/2021
5/8/2021
5/9/2021
5/10/2021
5/11/2021
5/12/2021
5/13/2021
5/14/2021
5/15/2021
5/16/2021
5/17/2021
5/18/2021
5/19/2021
5/20/2021
5/21/2021
5/22/2021
5/23/2021
5/24/2021
5/25/2021
5/26/2021
5/27/2021
5/28/2021
5/29/2021
5/30/2021
5/31/2021

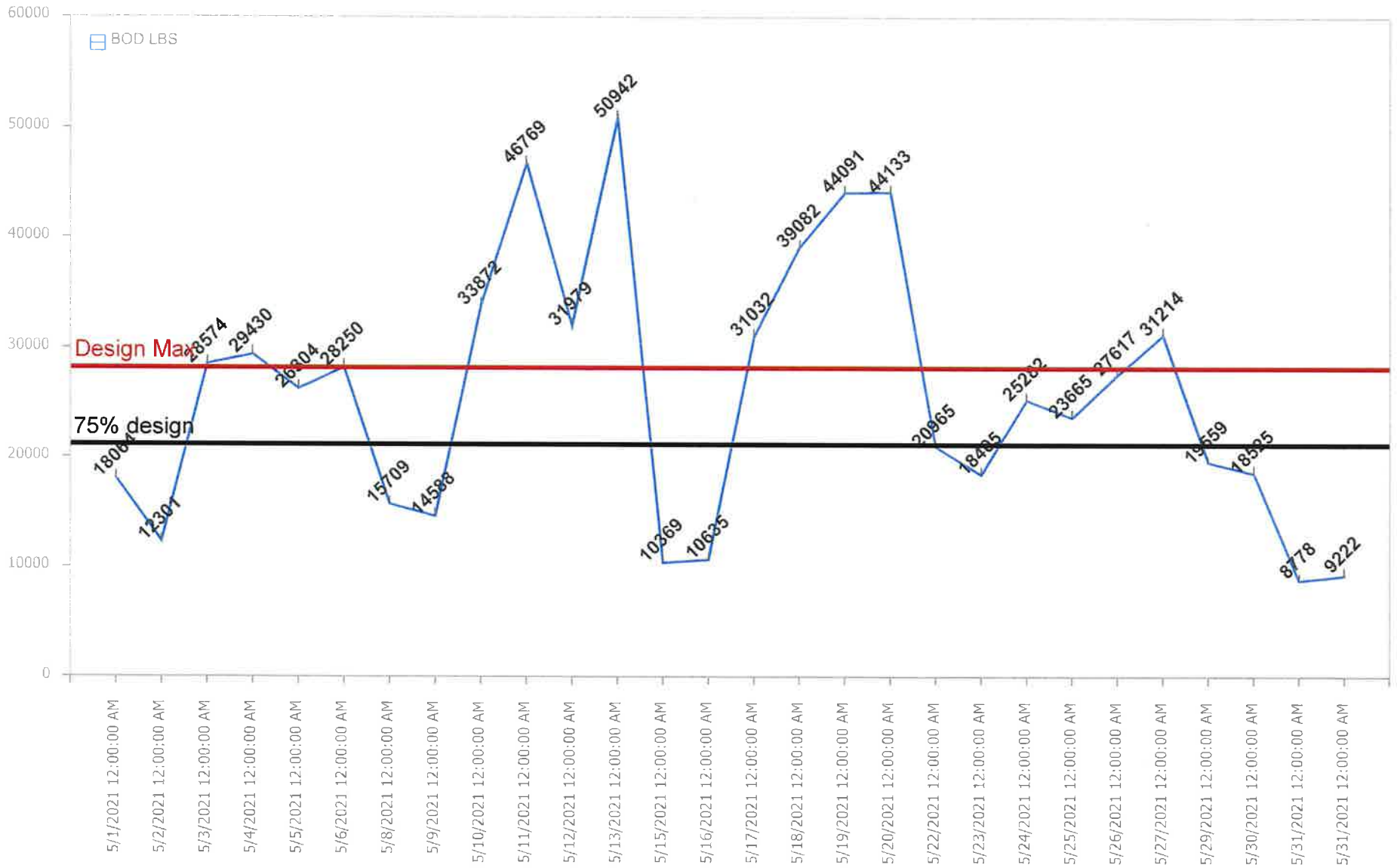
1044	1048	1045	102	116	1046	1047
Fecal Coliform at EQ Basin col/100ml	EQ Basin Residual Chlorine mg/l	EQ Basin pH	EQ Basin BOD mg/L	EQ Basin TSS mg/L	EQ Basin Ammonia Nitrogen mg/l	EQ Basin Total Phosphorus mg/l

Minimum
Maximum
Average
Sum

400	0.75	Range 6-9				
------------	-------------	------------------	--	--	--	--

KRMA influent BOD pounds

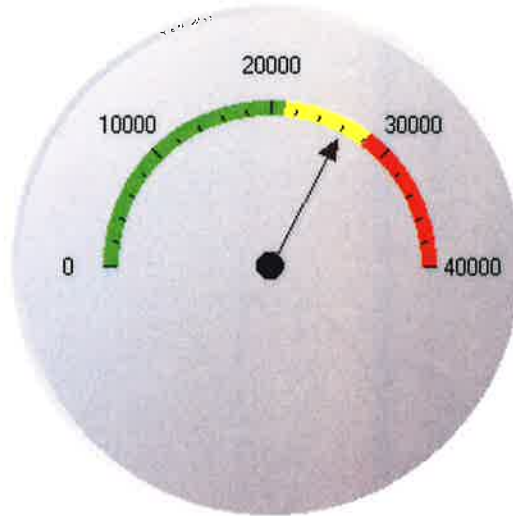
Average Lbs. BOD: 25,691.29



Influent BOD loading Lbs - Monthly AVG

26,003 Lbs./Day

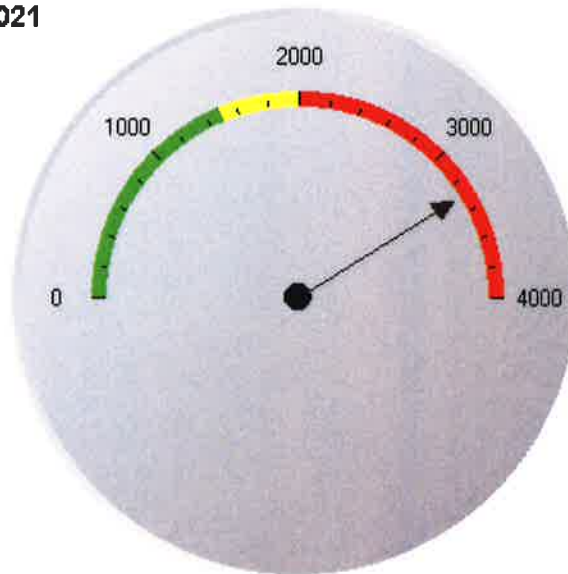
05/01/2021 - 05/31/2021



Influent NH3 loading Lbs - Monthly AVG

3,296 Lbs./Day

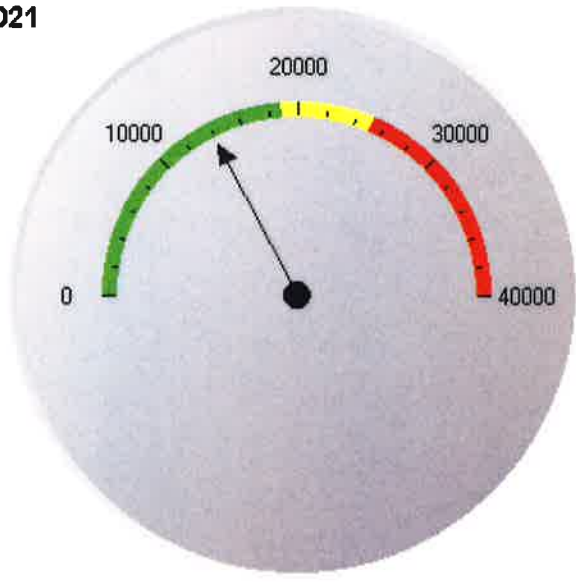
05/01/2021 - 05/31/2021



Influent TSS loading Lbs - Monthly AVG

13,903 Lbs./Day

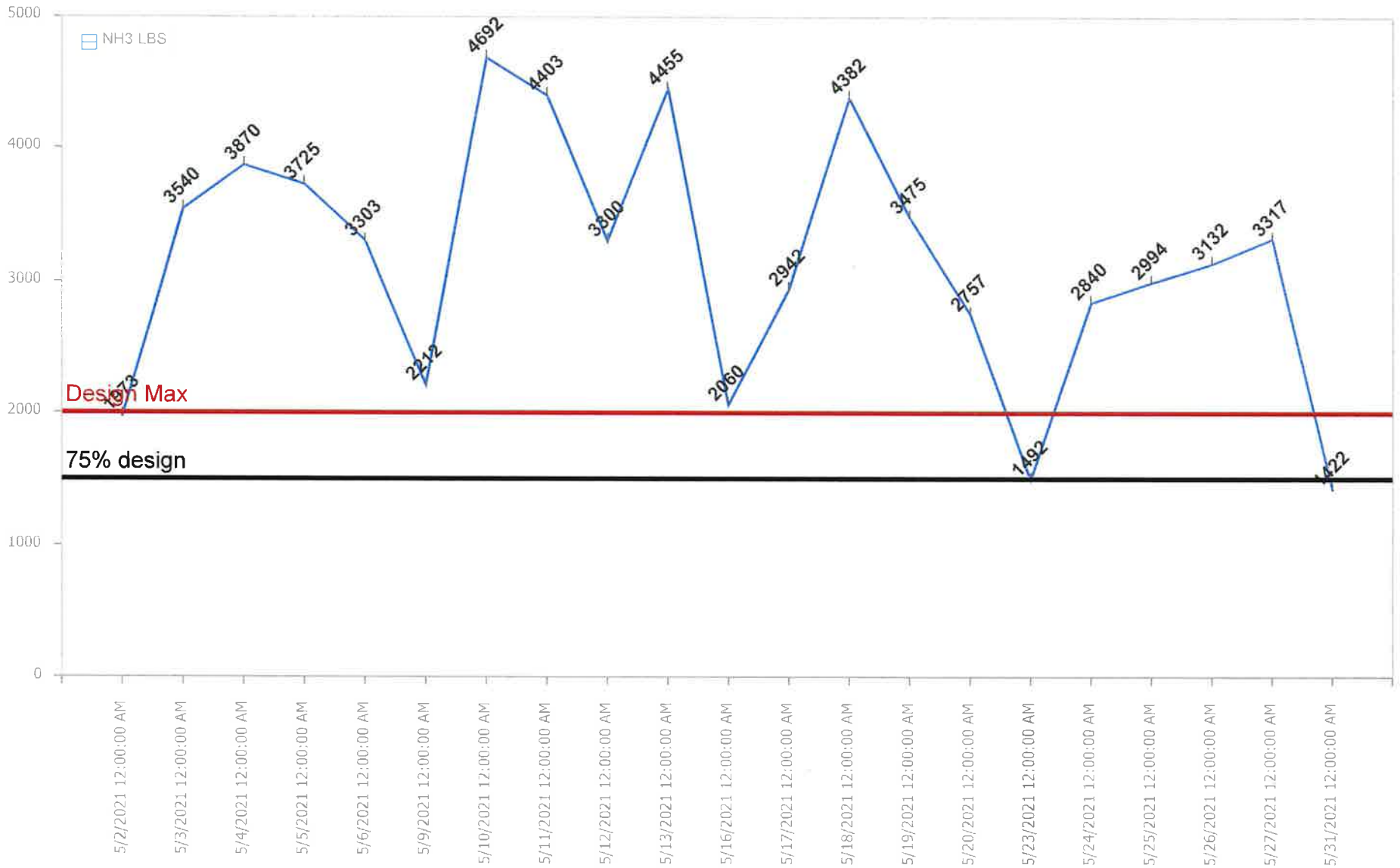
05/01/2021 - 05/31/2021



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

KRMA influent NH3 pounds

Average Lbs. NH3: 3,156.48



ATTACHMENT

B

Flows
KRMA Treatment Facility
May, 2021

Date	PRECIPITA INCHES	PLANT MGD	Kankakee MGD	BOURB. MGD	BradleyFlow MGD	AromaPark MGD
5/1/2021	0.00	16.41	9.80	3.672	2.896	0.037
5/2/2021	0.08	14.60	8.16	3.509	2.897	0.037
5/3/2021	0.00	13.65	7.95	3.417	2.248	0.033
5/4/2021	0.03	13.89	9.39	3.292	1.177	0.032
5/5/2021	0.00	13.25	8.96	3.120	1.141	0.034
5/6/2021	0.05	12.73	8.41	2.967	1.325	0.034
5/7/2021	0.00	12.70	7.41	3.919	1.321	0.054
5/8/2021	0.00	12.31	8.10	2.709	1.448	0.054
5/9/2021	2.36	36.44	17.96	11.620	6.810	0.054
5/10/2021	0.00	37.26	25.92	7.325	3.961	0.056
5/11/2021	0.00	29.83	21.65	5.122	3.000	0.056
5/12/2021	0.00	24.42	17.46	4.251	2.662	0.047
5/13/2021	0.00	21.89	15.46	3.932	2.457	0.045
5/14/2021	0.00	19.91	13.93	3.686	2.255	0.041
5/15/2021	0.00	18.02	12.48	3.413	2.086	0.041
5/16/2021	0.08	16.14	11.12	3.354	1.623	0.041
5/17/2021	0.04	14.82	10.31	3.152	1.325	0.036
5/18/2021	0.08	14.55	9.91	3.092	1.509	0.038
5/19/2021	0.07	14.37	9.74	3.174	1.413	0.037
5/20/2021	0.00	14.19	9.75	2.914	1.487	0.035
5/21/2021	0.00	13.44	8.80	3.124	1.479	0.040
5/22/2021	0.00	13.16	8.68	3.038	1.403	0.040
5/23/2021	0.00	13.06	9.13	2.601	1.286	0.040
5/24/2021	0.00	12.48	8.41	2.734	1.298	0.036
5/25/2021	0.65	12.34	8.29	2.763	1.249	0.036
5/26/2021	0.00	14.34	9.48	3.424	1.391	0.038
5/27/2021	0.26	14.68	10.61	2.979	1.054	0.034
5/28/2021	0.88	15.70	9.66	4.091	1.897	0.046
5/29/2021	0.00	16.06	10.18	3.992	1.842	0.046
5/30/2021	0.00	15.21	10.54	3.277	1.352	0.046
5/31/2021	0.00	13.32	8.91	3.163	1.205	0.046
Total	4.58	525.18	346.57	116.826	60.497	1.290
Average	0.15	16.94	11.18	3.769	1.952	0.042
Minimum	0.00	12.31	7.41	2.601	1.054	0.032
Maximum	2.36	37.26	25.92	11.620	6.810	0.056
# of data	31	31	31	31	31	31

ATTACHMENT

C



SAFETY MEETING
June 17, 2021
9:30am & 1:30pm
Agenda

I. Safety Minutes

Review minutes from May 2021

II. Old Business

There were no lost time accidents for the month of May 2021

III. New Business

A. Safety Training

Lock-out/Tag-out

B. Safety Concerns

C. Safety Team Leader Report

Safety Team Leader responsibilities transferred from Josh Peters to Brian Power

D. Open Discussion

1. KRMA participation in SARS-CoV-2 monitoring program
2. Grab sampling procedure for unusual influent flow

Next Meeting: Tuesday, July 13, 2021 9:30am & 1:30pm



SAFETY MEETING
May 4, 2021
9:30am & 1:30pm
Minutes

In attendance:

9:30am session:

Melanie Gossett, Facilitator

Shaun Ownbey	Dan Combs	Shawn Malone	Nick Scheppler
Bryan Kennedy	Mike Arseneau	Dave Tyson	

1:30pm session:

Melanie Gossett, Facilitator

Jack Renchen	Jim Churney	Ron Haney	Mike Gowler
Josh Peters	John Lund	Max Gossett	Nick Tucker

Absent:

Dustin Scheppler, Brian Power, Andy Summers

I. Safety Minutes

Reviewed minutes from April 8, 2021 – Approved

II. Old Business

There were no lost time accidents reported for the month of April 2021.

III. New Business

A. Safety Training

Alexander Chemical Corporation was here to discuss Cl₂/SO₂ Safety. A power point and video was presented followed by a quiz and Q&A.

B. Safety Concerns

No concerns were mentioned.

C. Safety Team Report

No other issues/concerns were shared

D. Open Discussion

1. A request was made for an internal video of KRMA Cl₂/SO₂ tank disconnect/connect to be posted on the intranet for reference.

✓ Videos will be compiled when new tanks are delivered and uploaded to the intranet.

2. Basic SCBA training will be scheduled when options are available.

Next Meeting: **Thursday, June 17, 2021**
9:30am & 1:30pm

ATTACHMENT

D

FIELD CALIBRATION SHEET

COMPANY: KRMA

CITY: BRADLEY/ RIVER DRIVE

FLOW METER MODEL: Isco Signature

INFLUENT June 7th, 2021

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 9" Level reading 9.065"

LEVEL AFTER: 9.065"

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: 6/7/2021

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 June 7th, 2021

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 24.122

LEVEL AFTER: 24.122"

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 6/7/2021

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 June 7th, 2021

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 30.0 MGD As Found 29.96 MGD LEVEL AFTER: 29.96 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: 6/7/2021

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 June 7th, 2021

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 24.364"
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: 6/7/2021

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 June 7th, 2021

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 29.994 MGD

LEVEL AFTER: 29.994 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: 6/7/2021

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 June 8th, 2021

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 15" As found 14.815"

LEVEL AFTER: 14.815" 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: 6/8/2021

**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 June 8th, 2021

PRIMARY DEVICE: 72" PIPE

FLOW: 0-115 MGD

MEASURING DEVICE:

CHECK POINTS:

LEVEL? YES

FREE FLOWING? Yes

TURBULENCE? NO

BLOCKAGE? NO

SURFACE BUILD-UP? Foam

HEAD MEASURING DEVICE MOUNTED PROPERLY? YES

BLOCKAGE IN HEAD MEASURING DEVICE? NO

IS FLOW METER PROGRAMMED CORRECTLY? YES

CALIBRATION:

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

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

LEVEL BEFORE:

LEVEL AFTER:

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

POINT:

LEVEL BEFORE: Target level 43.0" As found 43.406"

LEVEL AFTER: 42.99"

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: 6/8/2021

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

ATTACHMENT

E

May 2021 Monthly Pretreatment Sample Analysis (metals, cyanide & VOA) for the permitted industries were a total of **68 samples** and a total of **492 analyses**.

Gilster-Mary Lee Corporation	8 Samples
Hoffman Transportation, LLC	2 Samples
Liberty Landfill, LLC	10 Samples
Livingston Landfill	4 Samples
Natural Gas & Pipeline Co. of America	4 Samples
Newton County Landfill	14 Samples
Odyssey US LLC	5 Samples
Peoria Packing Co.	1 Sample
Prairie View RDF	7 Samples
Tank Cleaning Solutions, LLC	11 Samples
Zutat Feed Solutions	2 Samples

Volumes Received for May 2021 for trucked-in industries.

City of Momence/Momence Packing	0 gals	0 loads
Gilster-Mary Lee Corporation	67,000 gals	12 loads
Hoffman Transportation, LLC	10,000 gals	2 loads
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 3 LFGTE Plant - Wabash Valley Power Alliance	0 gals	0 loads
Liberty Landfill, LLC	692,347 gals	104 loads
Livingston Landfill	157,220 gals	24 loads
Natural Gas & Pipeline Co. of America	60,000 gals	12 loads
Newton County Landfill	1,540,176 gals	238 loads
Odyssey US LLC	50,123 gals	9 loads
Peoria Packing Co.	8,600 gals	2 loads
Prairie View RDF	238,613 gals	45 loads
Tank Cleaning Solutions, LLC	116,493 gals	22 loads
Zutat Feed Solutions	42,000 gals	7 loads
Totals:	2,982,572 gals	477 loads

The KRMA Facility received a total of **212 loads** of septage which totalled **706,200 gallons** for the month of May 2021

KRMA YEARLY UTILITY USAGE - (2021)

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	923,110	34 \$	58,146 \$	1,710	0	923,110	1,131	0.0630	620,000	66	4,071	9,394	62
FEBRUARY	805,257	28 \$	67,560 \$	2,413	-	805,257	1,198	0.0839	250,000	28	2,165	8,929	77
MARCH	655,565	28 \$	44,646 \$	1,995	-	655,565	990	0.0671	170,000	27	1,705	6,296	63
APRIL	809,326	31 \$	53,787 \$	1,735	-	809,326	1,088	0.0655	410,000	21	2,898	19,524	138
MAY	100,555				100,555				480,000	37	3,621	12,973	98
JUNE	0												
JULY	0												
AUGUST	0												
SEPTEMBER	0												
OCTOBER	0												
NOVEMBER	0												
DECEMBER	0												
TOTAL	3,203,813	121	224,139 \$	#DIV/0!	0	3,203,258	#DIV/0!	#DIV/0!			14,460 \$	#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	44,638	31 \$	15,871	1440 \$	544
FEBRUARY	47,672	28 \$	13,273	1703 \$	474
MARCH	31,730	31 \$	15,793	1024 \$	509
APRIL	23,881	30 \$	14,133	796 \$	471
MAY					
JUNE					
JULY					
AUGUST					
SEPTEMBER					
OCTOBER					
NOVEMBER					
DECEMBER					
TOTAL	147,921	120 \$	60,070	#DIV/0!	#DIV/0!
Therms	Days	Total Cost \$/Billing Period	Therms/Day	Total Cost \$/day	



Annual Load / Gallon Totals

IV-B-2

2021

Month Received	City of Mokenca/Mokenca Packing	Gilster-Mary Lee Corporation	Hoffman Transportation, LLC	Kankakee Recycling & Disposal Facility	Lake County C&D Landfill	Laraway Recycling & Disposal Facility	Liberty 3 LEUTE Plant - Wabash Valley Power Alliance	Liberty Landfill, LLC	Livingston Landfill	Natural Gas & Pipeline Co. of America	Newton County Landfill	Peoria Packing Co.	Prairie View RDF	Odyssey US	Tank Cleaning Solutions, LLC	Zulut Feed Solutions	Total	# Loads
January	138,200	80,000	10,000		57,287			912,664	255,040	50,000	1,331,545		95,432	72,194	180,472	23,000	3,205,834	507
February	168,000	61,000	15,000					1,387,606	166,784	30,000	913,999		25,925	42,583	200,029	18,000	3,028,926	482
March		109,000	25,000	7,000				1,046,929	202,053	115,000	1,405,353	3,500	74,567	72,338	244,479	36,000	3,341,219	543
April		87,000		7,000		5,825		951,099	162,572	35,000	1,383,535		196,500	71,113	157,934	30,000	3,087,578	498
May		67,000	10,000					692,347	157,220	60,000	1,540,176	8,600	238,613	50,123	116,493	42,000	2,982,572	477
June																		
July																		
August																		
September																		
October																		
November																		
December																		
Totals	306,200	404,000	60,000	14,000	57,287	5,825		4,990,645	943,669	290,000	6,574,608	12,100	631,037	308,351	899,407	149,000	16,646,129	2,507
Average	153,100	80,800	15,000	7,000	57,287	5,825		998,129	188,734	58,000	1,314,922	6,050	126,207	61,670	179,881	29,800	3,129,226	501
Treatment Costs as of 05/01/20	0.082	0.082	0.056	0.056	0.056	0.056	0	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	0.071	0.049	0.049	0.049	0.049	0	0.049	0.049	0.071	0.042	0.071	0.049	0.114	0.071	0.071		

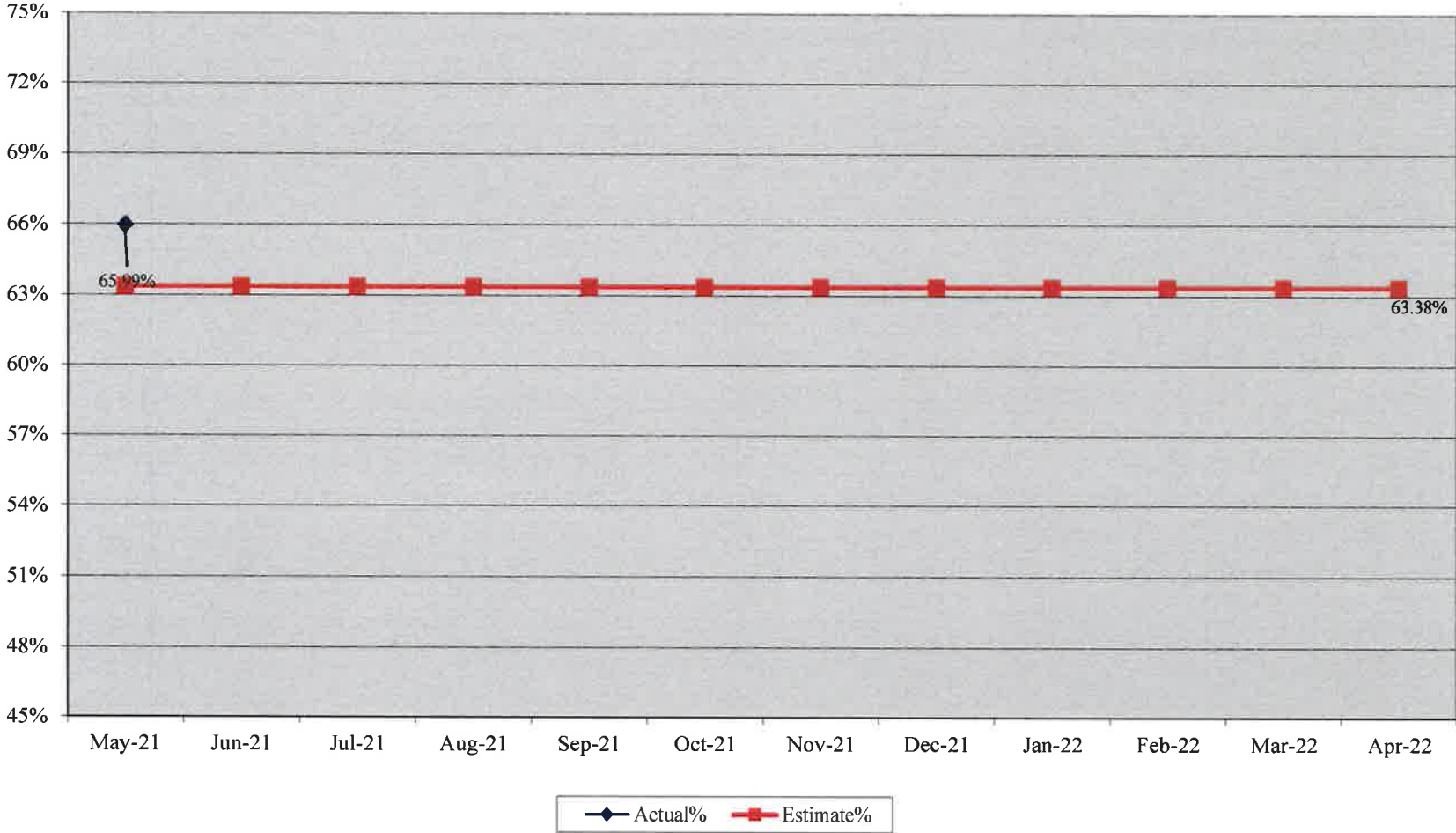


**Monthly TSS/BOD
 Loading Report**
 May, 2021

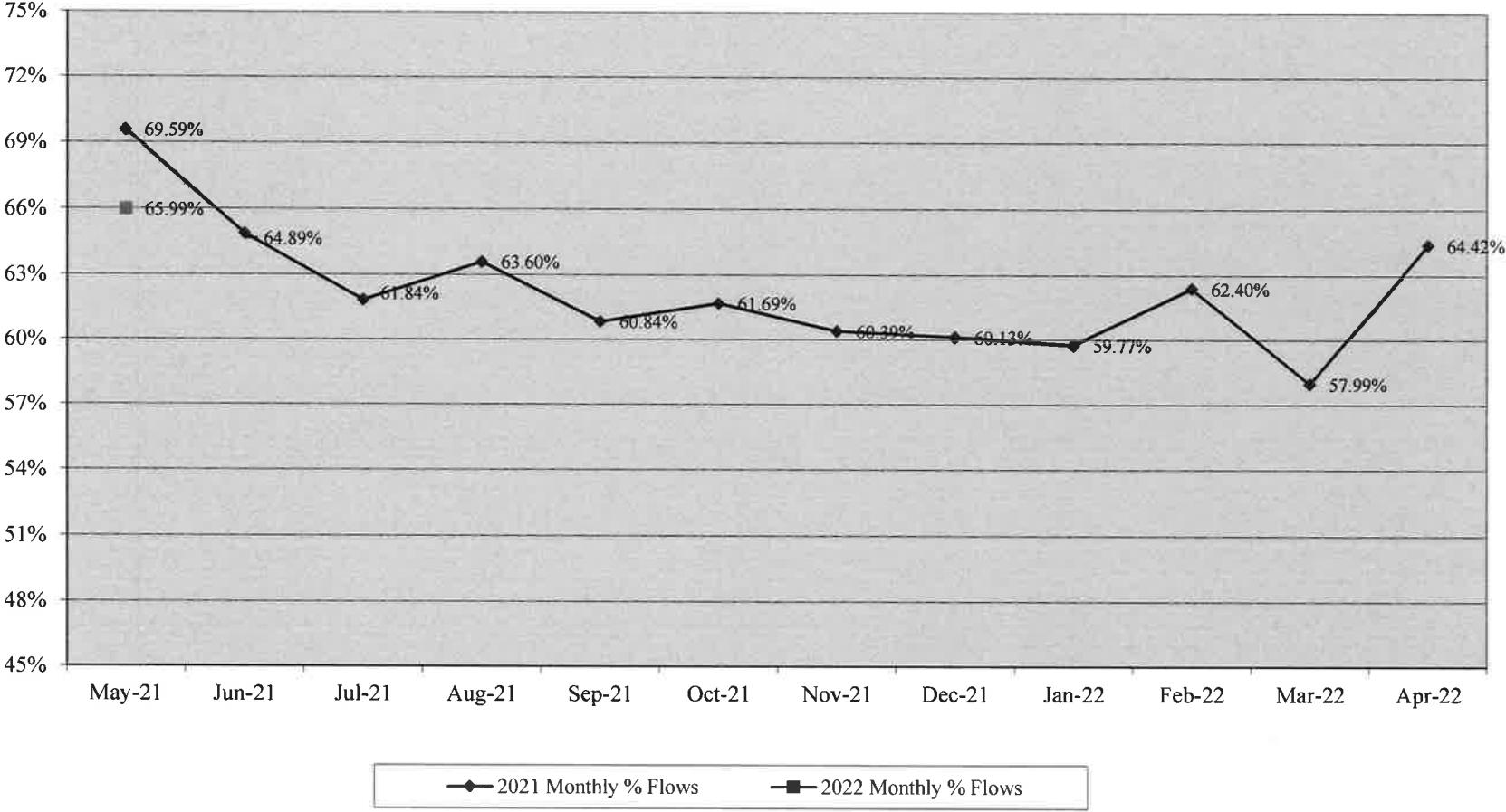
1600 West Brookmont Blvd.
 Kankakee, IL 60901
 Phone: 815-933-0444
 Fax: 815-933-0104

Hauler	Gallons	Lbs TSS	Lbs BOD
City of Momence/Momence Packing	0	0	0
Gilster-Mary Lee Corporation	67,000	2,298	2,849
Hoffman Transportation, LLC	10,000	6	212
Kankakee Recycling & Disposal Facility	0	0	0
Lake County C&D Landfill	0	0	0
Laraway Recycling & Disposal Facility	0	0	0
Liberty 3 LFGTE Plant - Wabash Valley Pow0		0	0
Liberty Landfill, LLC	692,347	1,341	11,450
Livingston Landfill	157,220	931	5,094
Natural Gas & Pipeline Co. of America	60,000	21	77
Newton County Landfill	1,540,176	20,773	274,080
Odyssey US LLC	50,123	590	7,216
Peoria Packing Co.	8,600	135	125
Prairie View RDF	238,613	543	9,400
Tank Cleaning Solutions, LLC	116,493	160	1,341
Zrtat Feed Solutions	42,000	2,039	2,652
Totals:	2,982,572	28,837	314,496

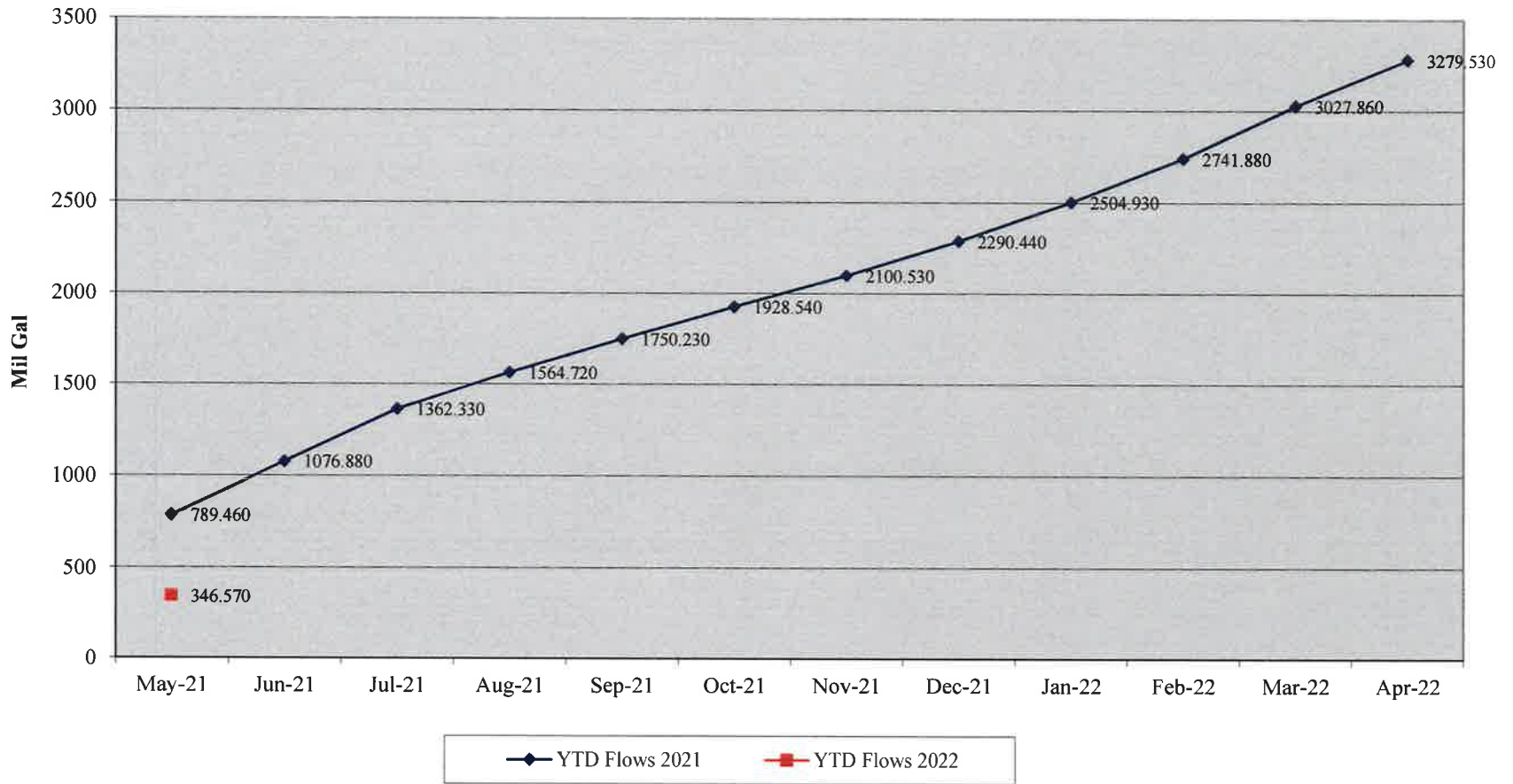
Kankakee River Metropolitan Agency
City of Kankakee
Actual % vs. Estimate FYE 4-30-22



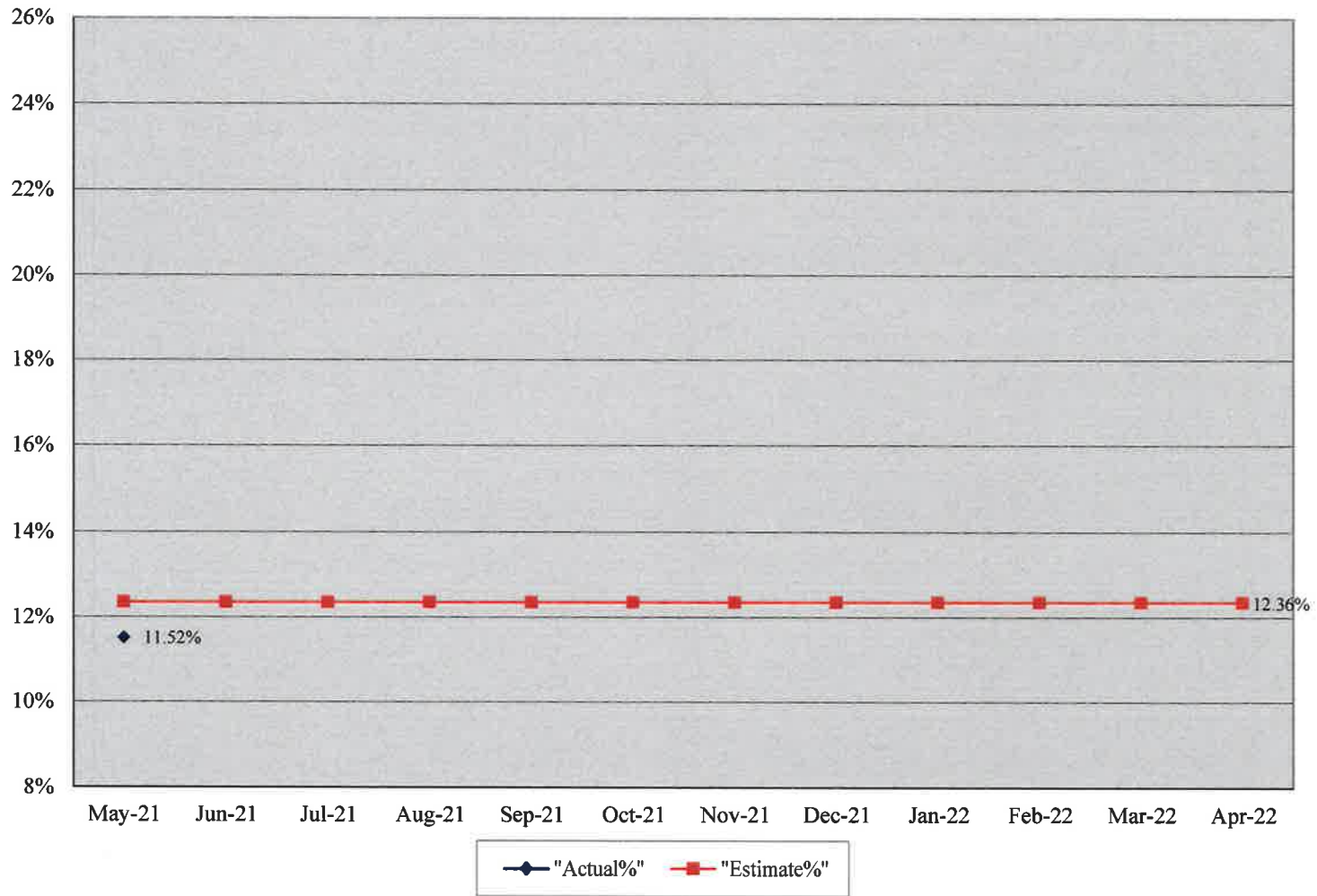
Kankakee River Metropolitan Agency
City of Kankakee
Monthly % Flows - 2021 vs. 2022



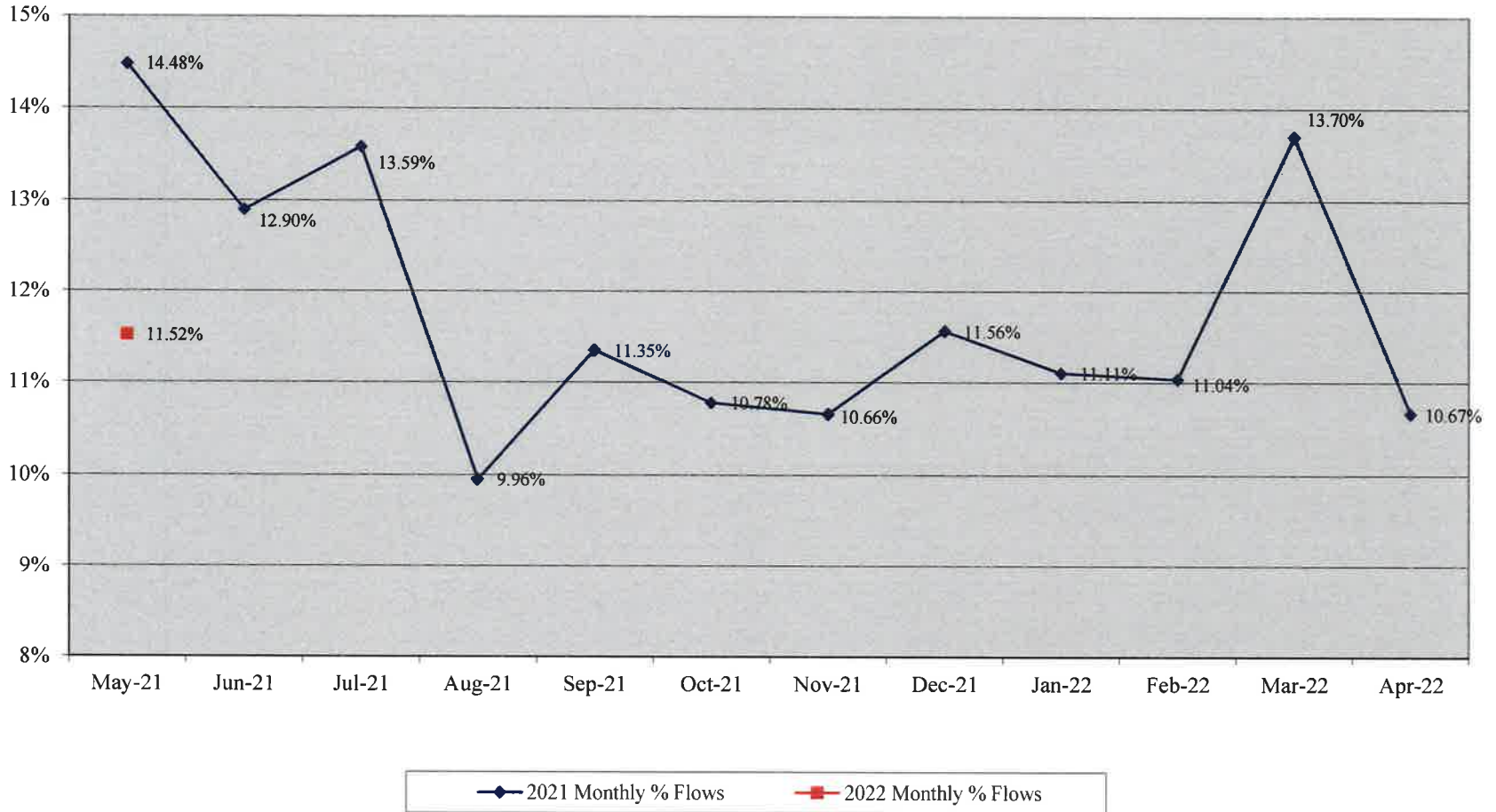
Kankakee River Metropolitan Agency City of Kankakee YTD Flows 2021 vs. 2022



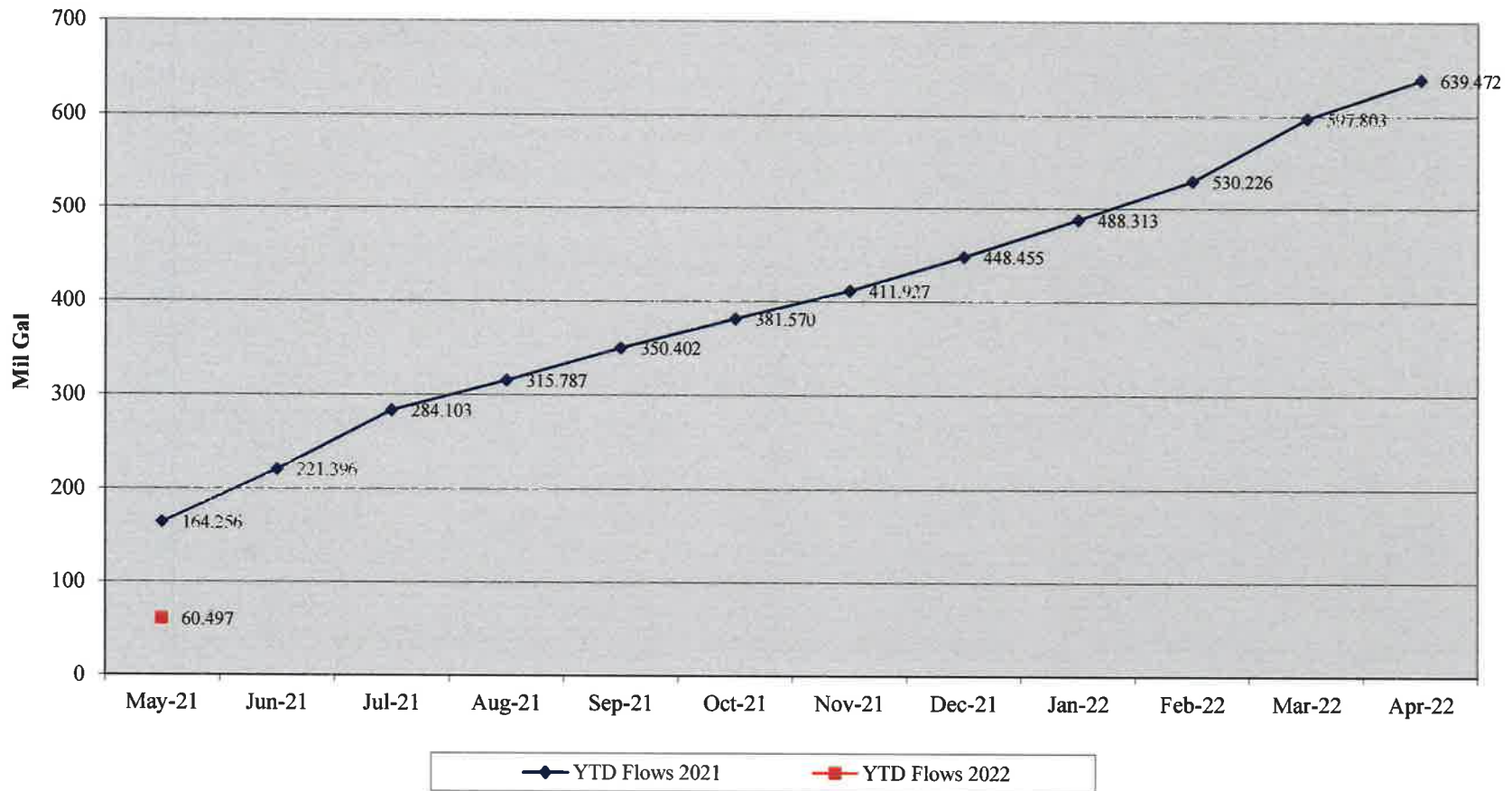
Kankakee River Metropolitan Agency
Village of Bradley
Actual % vs. Estimate FYE 4-30-22



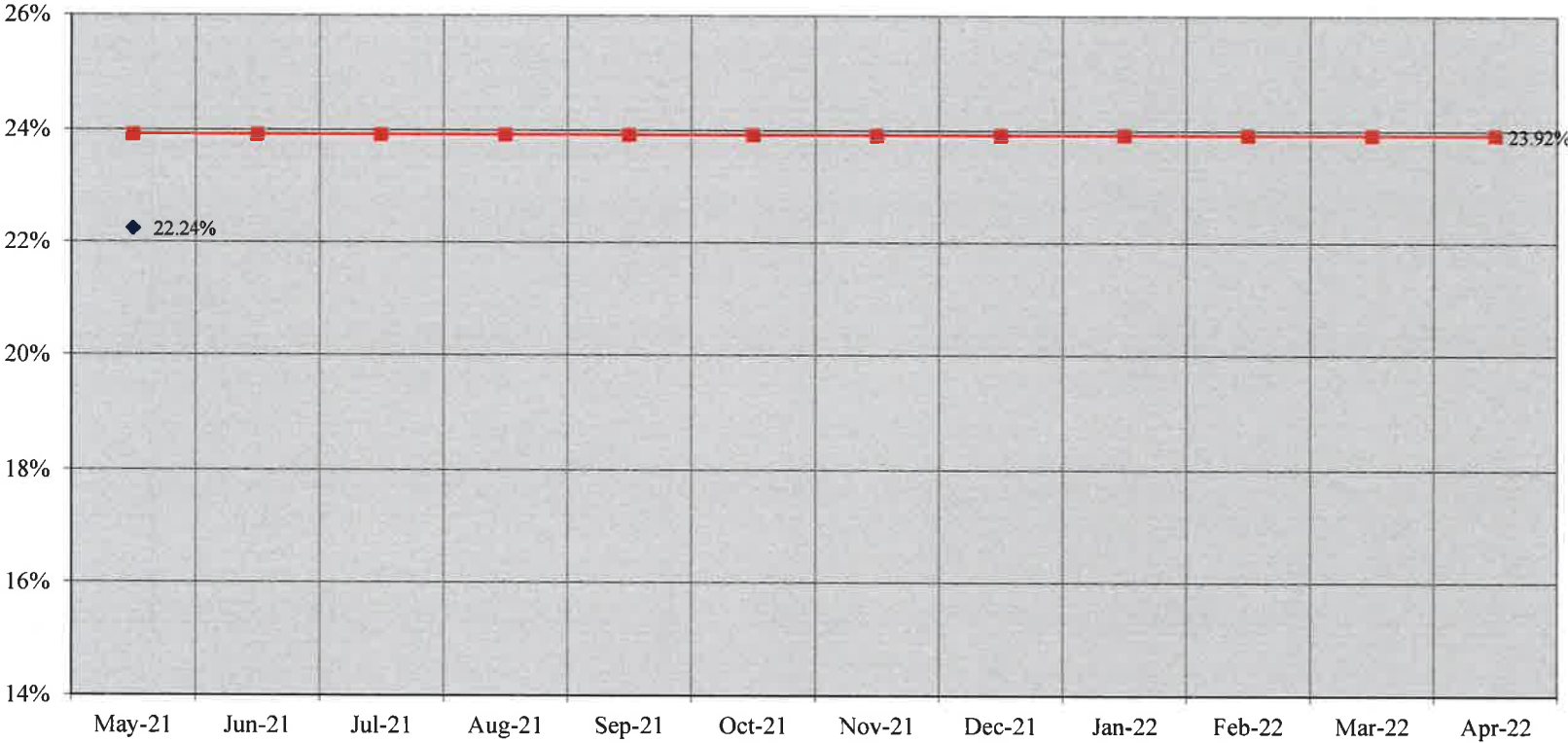
**Kankakee River Metropolitan Agency
Village of Bradley
Monthly % Flows 2021 vs. 2022**



Kankakee River Metropolitan Agency Village of Bradley YTD Flows 2021 vs. 2022

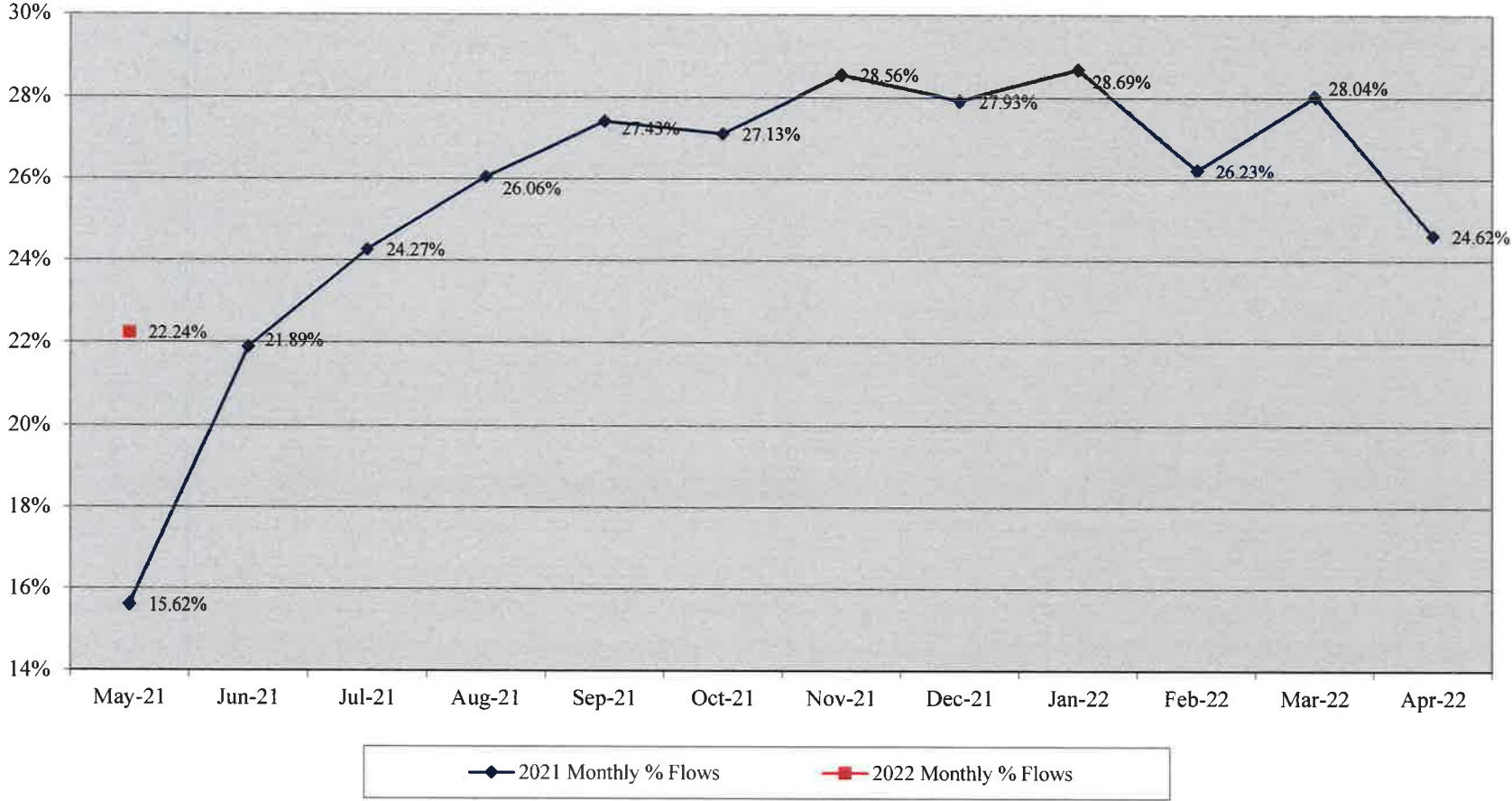


Kankakee River Metropolitan Agency
Village of Bourbonnais
Actual % vs. Estimate FYE 4-30-22

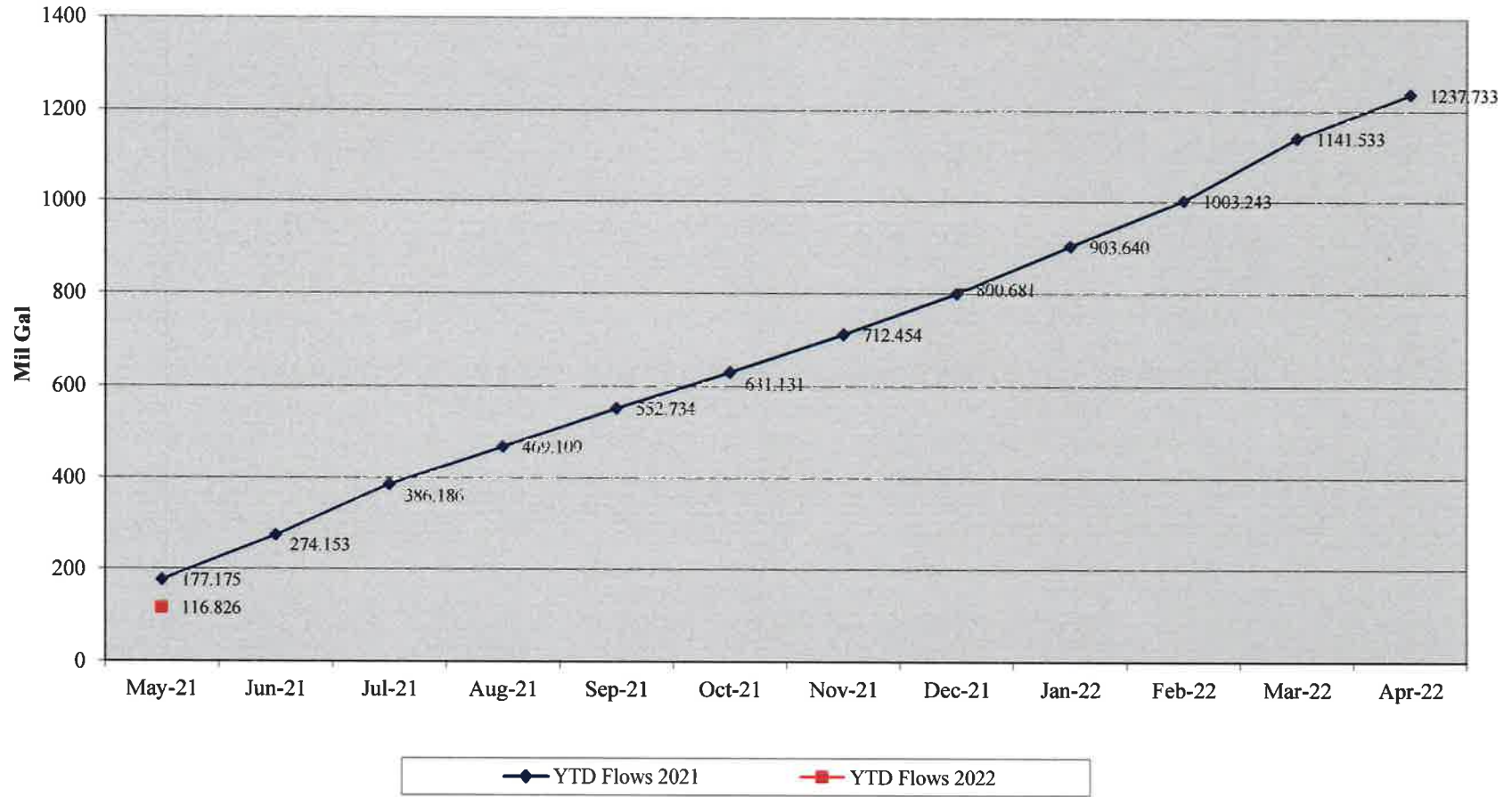


◆ Actual % ■ Estimate %

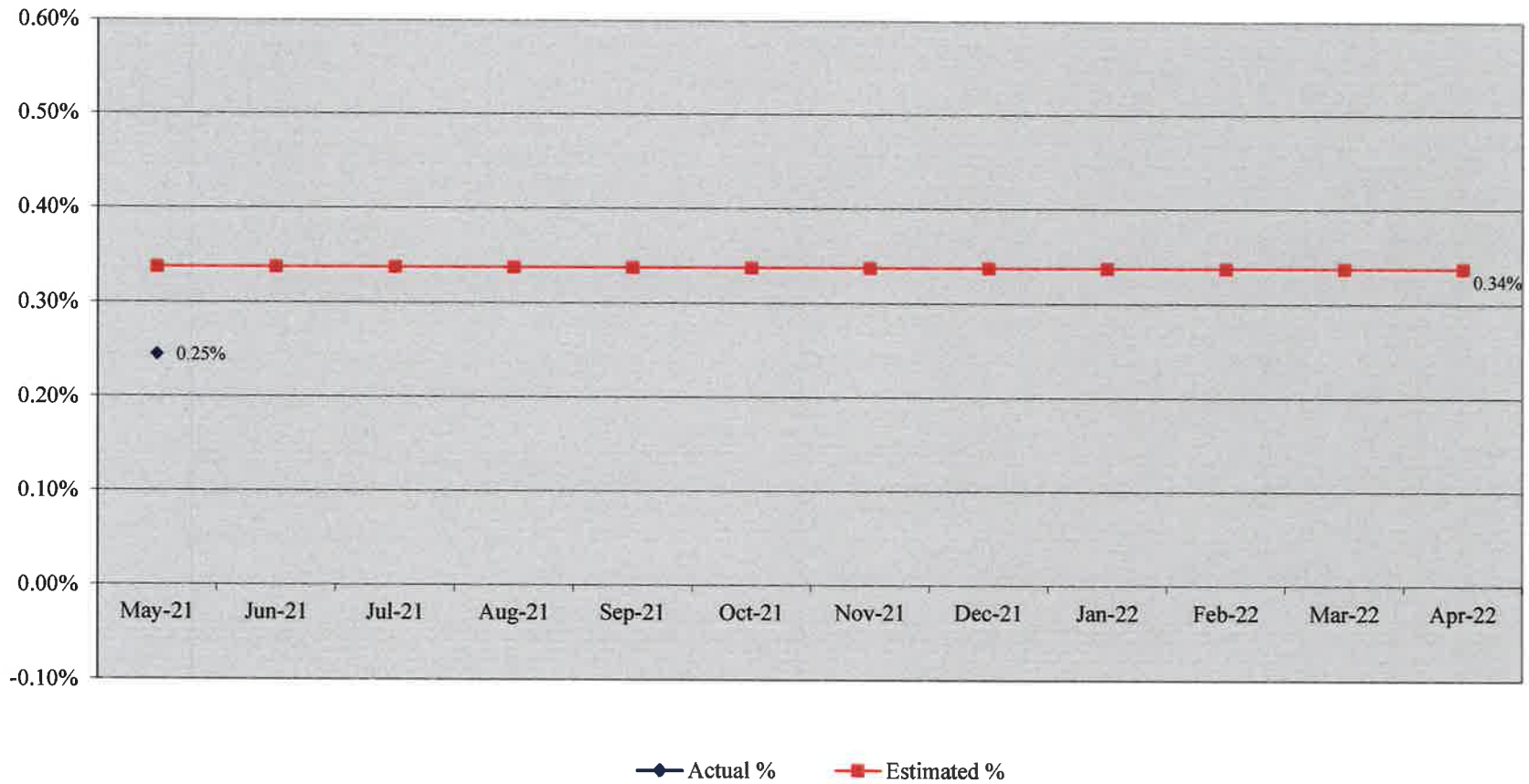
Kankakee River Metropolitan Agency
Village of Bourbonnais
Monthly % Flows - 2021 vs. 2022



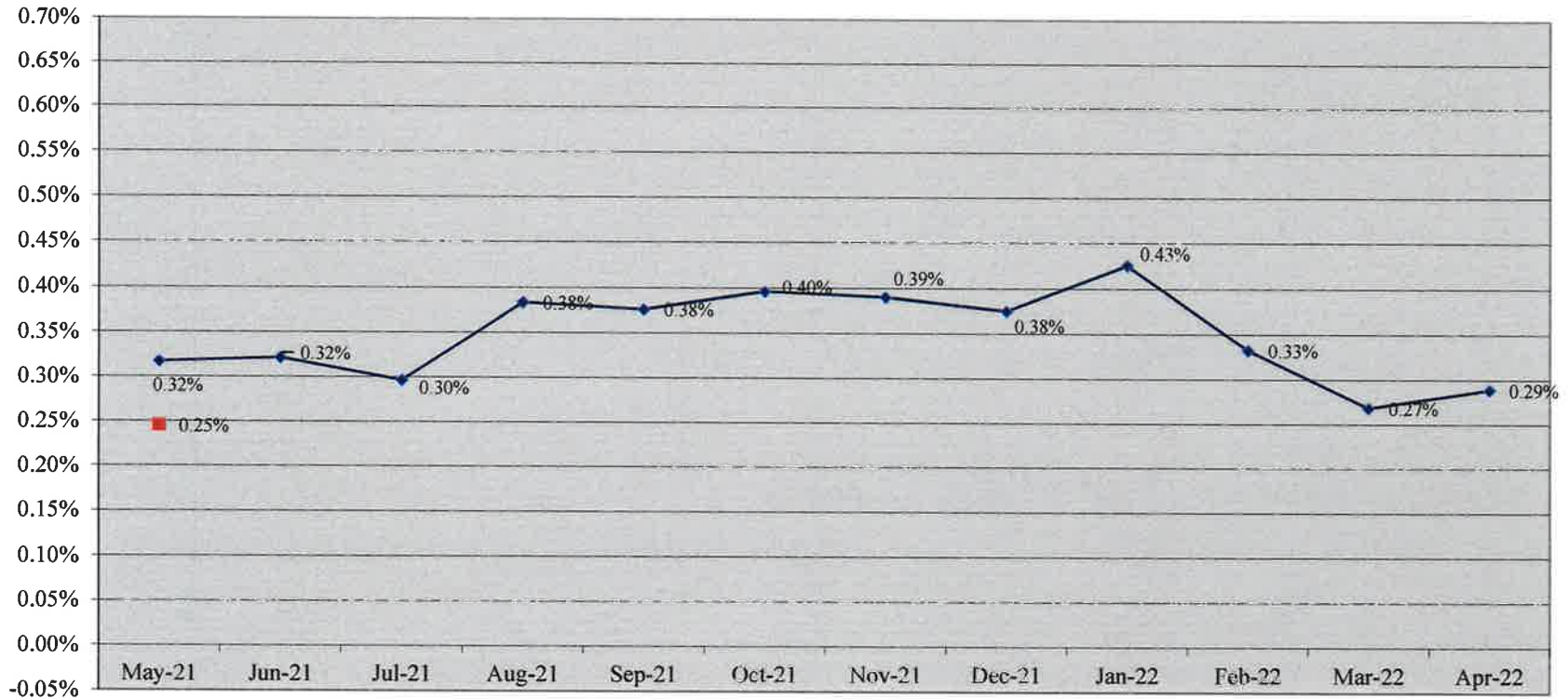
**Kankakee River Metropolitan Agency
Village of Bourbonnais
YTD Flows 2021 vs. 2022**



Kankakee River Metropolitan Agency
Village of Aroma Park
Actual % vs. Estimate FYE 4-30-22

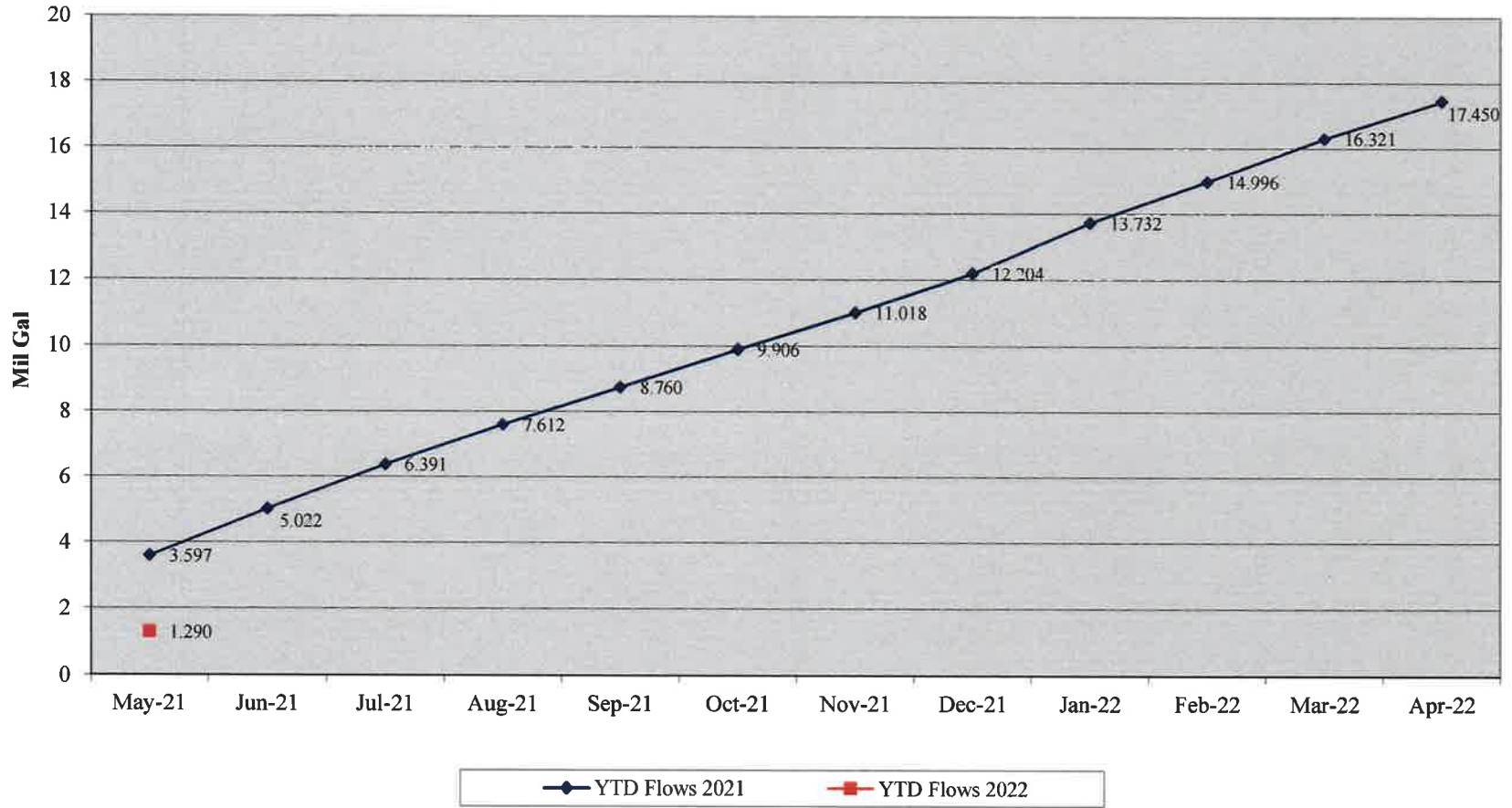


**Kankakee River Metropolitan Agency
Village of Aroma Park
Monthly % Flows - 2021 vs. 2022**



—◆— 2021 Monthly % Flows —■— 2022 Monthly % Flows

Kankakee River Metropolitan Agency
Village of Aroma Park
YTD Flows 2021 vs. 2022





Strand Associates, Inc.®
1170 South Houbolt Road
Joliet IL 60431
(P) 815 744 4200

June 16, 2021

Mr. David A. Tyson, P.E., Executive Director
Kankakee River Metropolitan Agency
1600 West Brookmont Boulevard
Kankakee, IL 60901

Re: Planning Services
Nutrient Assessment Reduction Plan–Year One

Dear David,

This Proposal presents Strand Associates, Inc.®'s (Strand) anticipated **Scope of Services** and associated **Compensation** for providing engineering services to the Kankakee River Metropolitan Agency (KRMA) for the Nutrient Assessment Reduction Plan–Year One (NARP) at the KRMA facility in Kankakee, Illinois.

Project Background and Understanding

KRMA's effluent discharges to the Kankakee River and is governed by effluent limits and special conditions contained in a National Pollutant Discharge Elimination System (NPDES) permit (Permit No. IL0021794) effective March 1, 2020. Special Condition 20 in the NPDES permit requires KRMA to develop a NARP because KRMA's effluent is located upstream of a segment of the Kankakee River that has been determined by the Illinois Environmental Protection Agency (IEPA) to be at risk of eutrophication from phosphorus levels in the Kankakee River.

The special condition language and general framework of the NARP was a product of three-party negotiations between the IEPA; the Illinois Association of Wastewater Agencies, of which KRMA is a member; and a coalition of environmental advocacy groups (EAGs). The purpose of the negotiations was to identify special conditions to be included in the NPDES permits of major (above one million gallons per day) wastewater treatment plants (WWTPs) to achieve the goals set forth by the IEPA in its statewide Nutrient Loss Reduction Strategy.

IEPA has established the following NARP criteria:

1. It must be developed and submitted to the IEPA by December 31, 2023. Additionally, the NARP can be developed by KRMA either individually or collaboratively through a watershed group. The Kankakee River watershed does not currently have an established watershed group and KRMA is interested in exploring the feasibility of creating one.
2. It should include input from other stakeholders and WWTPs within the watershed to evaluate a cost-effective means to address the risk of eutrophication. If other stakeholders are not willing to participate, KRMA must develop the NARP without their input. However, it should be noted the stakeholders that do not provide input will still be required to meet the improvements and/or phosphorus input reductions identified in the NARP.

Mr. David A. Tyson, P.E., Executive Director
 Kankakee River Metropolitan Agency
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3. It should list phosphorus input reductions from point sources and nonpoint sources in addition to other measures to remove the risk of eutrophication. It is possible the NARP could conclude that the Kankakee River does not have a risk of eutrophication related to phosphorus and therefore input reductions would not be required.
4. It should include a schedule for implementing the measures and phosphorus input reductions identified.
5. It can include provisions for water quality trading.

The requirements set forth in Special Condition 20 were purposefully made general so that each WWTP can develop a customized NARP that fits its unique financial constraints and waterbody characteristics. A cost-effective process for developing the overall NARP is to take a year-by-year approach such that the NARP scope of each year can be customized in accordance with the results of the previous year's findings and accomplishments. For first-year steps to develop a NARP, it will include beginning to characterize the Kankakee River watershed, investigating the river chemistry in the vicinity of KRMA's outfall, and beginning initial communication with potential stakeholders regarding formation of a watershed group to collectively address KRMA's NARP standards. These first steps will provide potential alternatives for KRMA to decide how KRMA prefers to proceed with next steps. If KRMA decides to participate in formation of a watershed group, Strand anticipates KRMA and other potential stakeholders would continue with leadership for the watershed group and Strand would continue as technical support to KRMA.

Scope of Services

Proposed services can be described as follows.

1. Attend one kickoff meeting with KRMA to discuss specific project components such as scope, schedule, project goals, and key deficiencies for the project.
2. Assist KRMA with procurement of appropriate sampling equipment.
3. Provide one-day training to KRMA staff at KRMA's WWTP on the procedures of the sampling plan approved by the IEPA.
4. Prepare and submit a Kankakee River and WWTP effluent sampling plan for KRMA's review and meet to discuss the plan. It is anticipated that KRMA will share the sampling plan with other WWTPs in the watershed for review and comment. The sampling plan is anticipated to include the following:
 - a. Considerations for continuous monitoring locations, frequency, and list of constituents to be monitored, which will include, but not be limited to, chlorophyll a, temperature, pH, conductivity, and dissolved oxygen. It is anticipated that two continuously monitoring Sondes will be deployed by KRMA for collection and analysis of this data upstream and downstream of the WWTP outfall.
 - b. Considerations for a grab sampling plan, including sampling locations, frequency, and list of constituents to be monitored. It is anticipated the grab samples will be taken from the same locations as the continuous monitoring Sondes and will be conducted on a

Mr. David A. Tyson, P.E., Executive Director
 Kankakee River Metropolitan Agency
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- regular time interval and at the same time of day regardless of weather. It shall be the responsibility of the KRMA to collect and analyze the grab samples.
- c. Considerations for a wet weather event-based grab sampling plan, including sampling locations, frequency, number of wet weather events to be captured, and list of constituents to be monitored. It is anticipated the grab samples will be taken from the same locations as the continuous monitoring Sondes and will be conducted during and immediately after wet weather events. It shall be the responsibility of the KRMA to collect and analyze the grab samples.
5. Incorporate KRMA's comments, as appropriate, and submit the sampling plan to both local EAGs and the IEPA for review. Participate in one meeting with EAGs and IEPA at KRMA's WWTP to discuss the sampling plan and comments from either group. Incorporate comments as appropriate.
 6. Review sampling data on a monthly basis. KRMA staff will be responsible for downloading the sampling data and sending it to Strand in electronic format on a regular basis.
 7. Develop a Freedom of Information Act (FOIA) request for KRMA's submission to the IEPA, United States Geological Survey (USGS), and other entities to obtain additional existing water quality data, stream and river surveys, and aquatic life surveys for the Kankakee River Watershed.
 8. Perform conceptual nonpoint source assessment to quantify nutrient loading within the Kankakee River Watershed from nonpoint sources, which will be useful in assessing river sampling data and evaluating potential future stakeholders and management practices. Nutrient load will be approximated using previous assessments by the State of Illinois or USGS supplemented by readily-available data on local land use, land area, and anticipated nutrient load per acre values for each land use type. A total of 24 hours of engineering time is anticipated for this task.
 9. Download Kankakee River stage data from USGS gauging stations upstream and downstream of KRMA's discharge location.
 10. Develop a list of potential stakeholders at the Kankakee River mainstem sub-watershed level (downstream of the confluence with the Iroquois River) and at the larger watershed level and discuss with KRMA.
 11. Develop an informational flyer for KRMA's use. KRMA shall print on KRMA's letterhead and distribute to the list of potential stakeholders.
 12. Participate in one informational meeting at KRMA's WWTP with interested stakeholders. The meeting will consist of an informational presentation describing NARP background and standards, the actions of KRMA to date, and potential future steps and considerations in forming a watershed group and developing a NARP.
 13. Develop a draft report summarizing the project, the development and implementation of the sampling plan, results of the sampling, and public participation, and submit to KRMA for review.

Mr. David A. Tyson, P.E., Executive Director
Kankakee River Metropolitan Agency
Page 4
June 16, 2021

14. Meet with KRMA staff to discuss draft report.
15. Address KRMA's comments, as appropriate, and finalize the report.
16. Provide a final presentation to KRMA summarizing the project findings, and next steps to continue development of the NARP.

Service Elements Not Included

The following services are not included in this Proposal. If such services are required, they shall be provided as noted.

1. Additional Site Visits and/or Meetings: Additional KRMA-required site visits or meetings will be provided through an amendment to this Proposal or through a separate proposal with KRMA.
2. Bidding- and Construction-Related Services: Bidding- and construction-related services for the project will require a separate proposal with KRMA.
3. Drawings and Specifications: Final design services including drawings and specifications, if provided by Strand, will be performed under a subsequent proposal with KRMA.
4. Preparation for and/or Appearance in Litigation on Behalf of KRMA: This type of Service by Strand will be provided through a separate proposal with KRMA.
5. Revising Designs, Drawings, Specifications, and Documents: Any services required after these items have been previously approved by state or federal regulatory agencies, because of a change in project scope or where such revisions are necessary to comply with changed state and federal regulations that are put in force after Services have been partially completed, will be provided through an amendment to this Proposal.

Compensation

KRMA shall compensate Strand for Services on an hourly rate basis plus expenses an estimated fee of \$43,000. Expenses incurred such as those for travel, meals, printing, postage, copies, computer, electronic communication, and long distance telephone calls will be billed at actual cost.

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

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

The estimated fee will not be exceeded without prior notice to and agreement by KRMA but may be adjusted for time delays, time extensions, amendments, or changes in the **Scope of Services**. Any

Mr. David A. Tyson, P.E., Executive Director
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adjustments will be negotiated based on Strand's increase or decrease in costs caused by delays, extensions, amendments, or changes.

Schedule

Services will begin upon execution of an agreement, which is anticipated the week of July 5, 2021. Services are scheduled for completion on June 30, 2022.

Standard of Care

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

KRMA's Responsibilities

1. Assist Strand by placing at Strand's disposal all available information pertinent to this project including previous reports, previous drawings and specifications, and any other data relative to the scope of this project.
2. Furnish to Strand, as required by Strand for performance of Services as part of this Proposal, data prepared by or services of others obtained or prepared by KRMA relative to the scope of this project, such as soil borings, probings and subsurface explorations, and laboratory tests and inspections of samples, all of which Strand may rely upon in performing Services under this Proposal.
3. Provide access to the site(s) as required for Strand to perform Services under this Proposal.
4. Guarantee access to and make all provisions for Strand to enter upon public and private lands as required for Strand to perform Services under this Proposal.
5. Examine all reports, sketches, estimates, special provisions, drawings, and other documents presented by Strand and render, in writing, decisions pertaining thereto within a reasonable time so as not to delay Strand's performance.
6. Provide all legal services as may be required for the development of this project.
7. Retain the services of a soils consultant to provide any necessary geotechnical evaluation and recommendations.
8. Pay all permit and plan review fees payable to regulatory agencies.

Opinion of Probable Cost

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

Mr. David A. Tyson, P.E., Executive Director
Kankakee River Metropolitan Agency
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June 16, 2021

Changes

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

Extension of Services

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

Payment

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

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

Data Provided by Others

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

Mr. David A. Tyson, P.E., Executive Director
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June 16, 2021

Termination

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

Third-Party Beneficiaries

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

Dispute Resolution

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

We thank you for the opportunity to provide our services for this project. If you have any comments or questions, please call me at your convenience at 815-744-4200 extension 3320.

Sincerely,

STRAND ASSOCIATES, INC.®



Daniel J. Small, P.E.