



Municipality of the County of Kings
Regional Sewer Committee
Agenda

Sept 17, 2020 10:00am

Via WebEx Video Conference

Item	Description	Required Action	Responsibility
1	Roll Call		Chair
2	Additions to the Agenda	Decision	All
3	Approval of Agenda	Decision	All
4	Disclosure of Conflict of Interest Issues	Decision	Chair
5	Business Arising from Minutes	Discussion	All
6	Approval of Minutes: <ul style="list-style-type: none"> July 16, 2020 	Decision	Chair
Standing Items			
7	Status Report – Work Plan	Discussion	S. Quinn
8	Operations Update <ul style="list-style-type: none"> Environmental Compliance General Status Odour Mitigation 	Discussion	T. Pelly
9	Current Year Budget Update <ul style="list-style-type: none"> Forecast Reserves Timesheets 	Discussion	M. Livingstone/K. Wheaton/T. Pelly
10	Capital Updates	Discussion	T. Bouter / D. Bell
New Business			
11	Follow Up - Compliance Letter from Environment Canada	Discussion	S. Conrod / S. Quinn
12	Odour Issues follow up – RG7	Discussion	Chair/T. Pelly
13	FY 2019-20 Financial Statement	Decision	M. Livingstone/K. Wheaton
	Other Business		All
	Correspondence		
	Public Comments		
	Next Meeting – (Oct 15, 2020)	Decision	
	Adjournment	Decision	

REGIONAL SEWER COMMITTEE MEETING MINUTES

July 16, 2020

A meeting of the Regional Sewer Committee was held Thursday, July 16, 2020 at 10:00 am
Via WebEx Meeting

In attendance:

Municipality of the County of Kings

Councillor Jim Winsor, Chair*

Scott Conrod, CAO

Scott Quinn, Director of Engineering & Public Works, Lands & Parks Service

Thoren Pelly, Manager of Public Works

Tim Bouter, Manager of Engineering Services

Greg Barr, Director of Financial & IT

Mike Livingston, Manager of Financial Reporting

Kevin Wheaton, Financial Analyst

Lisa Amon, Administrative Assistant Recording Secretary

Town of Kentville

Councillor Cate Savage

Kelly Rice, CAO

Dave Bell, TOK Engineer

Village of New Minas

Commissioner James Redmond

Ian Morrison, Clerk/Treasurer

Gerard Hamilton, Operations Manager

PepsiCo Foods Canada

Dylan Quartermain, PepsiCo

Regrets:

None.

Call to Order

Chair Councillor Winsor called the meeting to order at 10:05 a.m.

Additions to the Agenda

There were no additions to the agenda.

Approval of the Agenda

Commissioner Redmond moved to approve the agenda; seconded by Councillor Savage. Motion Carried.

Disclosure of Conflict of Interest Issues

There were no issues.

Approval of the Previous Meeting Minutes

Commissioner Redmond moved that the minutes of the June 18, 2020 Regional Sewer Committee meeting be approved as circulated; seconded by Councillor Savage. Motion Carried.

Business Arising from the Minutes:

None.

Status Report – Work Plan:

Scott Quinn advised there has been ongoing work happening on the Work Plan. Scott Quinn will do a full review of the Work Plan chart again at the September meeting and update items.

Operations

a) Operations Update

Thoren Pelly reported staff continue to investigate ways to help prevent odour issues at the Regional Plant. There have been only slight odours noticed at the plant but not bad like last year.

Thoren Pelly reported that there has been flooding in the Regional Building due to heavy impact flows from industries. There have been several floods in the past couple of months. Staff at the Regional Plant had to shovel 3 times already this week due to flooding in the building.

Thoren Pelly reported that on the first day it took 2 people plus the vactor truck to clean up the flooding in the Regional Building and on the second day it took ½ day for 2 people and the vactor truck to try and clean up the mess.

When PepsiCo cannot handle the starch recovery, it discharges to RG2 and it fills up with solids, the treatment plant can only process so much as it is thick like oatmeal and it gets jammed in the auger and then this floods out on the floor and it takes staff days to clean up the mess. When PepsiCo fails then the plant floods over staff's rubber boots as they try to clean it up.

Tim Bouter advised the drum has already been replaced and there is nothing else that can be done, the system cannot handle what is coming into it.

- ***The Technical Committee needs to hold a meeting to try and come up with solutions so the Regional Plant does not continue to flood.***

Dylan Quartermain, PepsiCo reported that the plant plans to do some desludging on July 25th and if they run into starch recovery issues again they will shut down production.

Thoren Pelly and Dylan Quartermain will have a follow up discussion on what to do immediately to prevent flooding again.

b) Environmental Compliance

Scott reviewed the compliance sheets.

Kevin Wheaton reported the June TSS levels for PepsiCo has started to come down. Councillor Savage asked why the PepsiCo discharge exceeds the limits regularly. Dylan Quartermain from PepsiCo explained it is due to poor performance due to starch recovery issues and they are working to try to resolve the problem. Dylan advised preventative measures have been put in place with additional cleaning and training he hopes the numbers will continue to decrease. Dylan advised there has been a higher than usual demand for the product. Dylan explained they will be doing a Utility Assessment as well.

There have been several Regional Monthly Summary average TSS levels that have been over the allowable limit and have been reportable. Thoren Pelly explained over the winter months three aeration units had to be removed from the ponds so they would not freeze which creates less air in the ponds. The blowers in the blower house then needs to be ran and this burns more power. Tim Bouter also mentioned there will be testing done up river as there could also be sand, grit etc. that could be causing some of the higher TSS levels.

Budget Forecast Updates

Councillor Winsor asked if the Financial Statements were available. Mike Livingston reported no the auditors have not finalized the Financial Statements yet.

Reserves

Kevin Wheaton reported approximately a \$20,000 reserve balance. Mike Livingston forecasts to the end of 2020 it will be a bit below at approx. \$14,500. The additional cost contributes to having to run the blowers more to add air in the ponds, with the higher TSS levels more UV Bulbs were used at a higher intensity which cost more power as well.

Time Sheet Update

Kevin Wheaton reviewed the timesheets with the committee.

Capital Updates

Dave Bell, TOK advised the contract was awarded for the bridge work and work will begin this week. Councillor Winsor would like the minutes to note that the Regional Sewer Committee members voted by email on July 3, 2020 to approve the award of the tender to replace the section of sanitary sewer on Aberdeen and River Streets in Kentville to Atlantic Road

Construction and Paving (ARCP) in the amount of \$150,610 + HST. It was also noted that this project already had an approved budget.

Compliance Letter from Environment Canada – Follow Up:

Scott Conrod, CAO presented a brief report explaining the government reporting agencies as part of environmental compliance. Scott Conrod, CAO also outlined how there are collection systems, treatment systems and licence holder such as Overall Direct Responsible Charge license holders and Direct Responsible charge licence holders. Scott Conrod also explained there are Federal and Provincial reporting protocols with Environment and Climate Change Canada and Nova Scotia Environment.

Brief background: On August 27, 2019 – Environment and Climate Change Canada (ECCC) conducted an inspection of Regional Sewage Treatment Plant (RSTP) and Municipal offices.

Staff received and reviewed ECCC's "Written Warning" letter (Warning) on April 30, 2020.

The Warning identified the following items for corrective action:

- Discharges of certain constituents above permitted concentrations;
- Test methodology used for acute lethality (aka the "Fish Test"); and
- Reporting of lab test results and "root cause analysis" reviews for exceedances to ECCC

Scott Conrod advised there will be an Operations Manual developed by a third party working with staff to conduct a GAP Analysis.

Odour Issue RG7 Update:

Councillor Savage asked about the status of the odour near RG7 close to Mr. Smith's house.

Thoren Pelly advised he has not recently spoken to Mr. Smith who lives near RG7 station in Kentville. Staff have been trying to reduce the odor at RG7 by cleaning and spraying all surfaces at RG7 and they add a chemical there to help reduce the odour. A scrubber unit may need to be added like the one at RG5.

- ***Scott Quinn advised that the Technical Committee can look into purchasing a scrubber and report back to the Regional Sewer Committee in September.***

Other Business

None.

Correspondence

None.

Next Meeting:

The next meeting of the Regional Sewer Committee will be held on Thursday, September 17, 2020

Adjournment

With no further business to discuss, the meeting was adjourned at 11:35 a.m. on a motion made by Councillor Savage.

Approved by:

Councillor Jim Winsor
Chairperson

Lisa Amon
Recording Secretary

Town of Kentville			
Maximum Average Daily Load			
Month	1,779,000	5,015	5,015
	Hydraulic Load	Organic Load (BOD)	Suspended Solids (TSS)
	(IGPD)	(lbs/day)	(lbs/day)
January	778,852	4,680	1,854
February	726,830	4,030	1,899
March	740,305	3,183	1,943
April	782,113	2,853	2,537
May	749,886	2,060	1,905
June	644,514	3,244	1,776
July	709,411	3,527	3,208
August	658,588	2,285	1,933
September	-	-	-
October	-	-	-
November	-	-	-
December	-	-	-
Yearly Average	723,812	3,233	2,132

Village of New Minas			
Maximum Average Daily Load			
Month	1,024,000	2,321	2,321
	Hydraulic Load	Organic Load (BOD)	Suspended Solids (TSS)
	(IGPD)	(lbs/day)	(lbs/day)
January	321,509	775	560
February	324,275	1,442	960
March	345,472	711	674
April	381,062	612	503
May	353,367	310	186
June	292,654	434	252
July	331,557	422	330
August	301,333	315	264
September	4,496	8	7
October	4,496	8	7
November	4,496	8	7
December	4,496	8	7
Yearly Average	331,404	628	466

Pepsi Co			
Maximum Average Daily Load			
Month	143,000	3,300	3,300
	Hydraulic Load	Organic Load (BOD)	Suspended Solids (TSS)
	(IGPD)	(lbs/day)	(lbs/day)
January	101,177	2,030	15,199
February	104,073	1,660	3,325
March	100,457	1,607	4,074
April	129,621	1,374	4,371
May	112,971	1,115	3,433
June	135,008	891	2,479
July	139,162	1,081	2,059
August	114,456	1,276	3,248
September	-	-	-
October	-	-	-
November	-	-	-
December	-	-	-
Yearly Average	117,116	1,379	4,774

Municipality of Kings			
Maximum Average Daily Load			
Month	475,000	1,060	1,060
	Hydraulic Load	Organic Load (BOD)	Suspended Solids (TSS)
	(IGPD)	(lbs/day)	(lbs/day)
January	200,826	585	495
February	189,313	694	387
March	202,312	475	368
April	212,114	389	429
May	211,426	465	467
June	193,101	627	452
July	195,898	398	418
August	190,578	449	394
September	38,345	78	78
October	38,345	78	78
November	38,345	78	78
December	38,345	78	78
Yearly Average	199,446	510	426

Atlantic Poultry			
Maximum Average Daily Load			
Month	330,000	1,914	1,914
	Hydraulic Load	Organic Load (BOD)	Suspended Solids (TSS)
	(IGPD)	(lbs/day)	(lbs/day)
January	1,402,364	8,070	18,108
February	1,344,491	7,826	6,571
March	1,388,546	5,976	7,059
April	1,504,910	5,228	7,840
May	1,427,650	3,950	5,991
June	1,265,277	5,196	4,959
July	1,376,028	5,428	6,015
August	1,264,955	4,325	5,839
September	42,841	86	85
October	42,841	86	85
November	42,841	86	85
December	42,841	86	85
Yearly Average	1,371,778	5,750	7,798

Totals					
Maximum Average Daily Load					
Month	3,751,000	13,610	13,610	% Plant Capacity	
	Hydraulic Load	Organic Load (BOD)	Suspended Solids (TSS)	Organic % Max	Organic % Design
	(IGPD)	(lbs/day)	(lbs/day)	(lbs/day)	(lbs/day)
January	1,402,364	8,070	18,108	59%	65%
February	1,344,491	7,826	6,571	58%	63%
March	1,388,546	5,976	7,059	44%	48%
April	1,504,910	5,228	7,840	38%	42%
May	1,427,650	3,950	5,991	29%	32%
June	1,265,277	5,196	4,959	38%	42%
July	1,376,028	5,428	6,015	40%	44%
August	1,264,955	4,325	5,839	32%	35%
September	42,841	86	85	1%	1%
October	42,841	86	85	1%	1%
November	42,841	86	85	1%	1%
December	42,841	86	85	1%	1%
Yearly Average	1,371,778	5,750	7,798	42%	46%

Exceeds Maximum Allocation

IGPD

% Maximum Capacity to Date				
8/31/20 Avg	1,371,778	5,750	7,798	
%	37%	42%	57%	

Regional Sewer

2020 Average Quarterly Flows & Loads by Partner

Hydraulic Loads - Imperial Gallons Per Day						
Contract Maximums	1,779,000	1,024,000	143,000	805,000	3,751,000	
	TOK	VONM	PepsiCo	MOK	Total	% Max Capacity
Q1	748,662	330,419	101,902	197,484	1,378,467	37%
Q2	725,504	342,361	125,867	205,547	1,399,279	37%
Q3	684,000	316,445	126,809	193,238	1,320,492	35%
Q4	-	4,496	-	38,345	42,841	1%
Average for Year	719,389	329,742	118,193	198,756	1,366,079	36%

BOD Loads - Pounds per Day						
Contract Maximums	5,015	2,321	3,300	2,974	13,610	
	TOK	VONM	PepsiCo	MOK	Total	% Max Capacity
Q1	3,974	977	2,122	573	7,646	56%
Q2	2,713	451	1,730	498	5,392	40%
Q3	2,960	390	1,286	385	5,021	37%
Q4	-	8	-	78	86	1%
Average for Year	3,216	606	1,713	485	6,020	44%

TSS Loads - Pounds per Day						
Contract Maximums	5,015	2,321	3,300	2,974	13,610	
	TOK	VONM	PepsiCo	MOK	Total	% Max Capacity
Q1	1,899	733	7,533	416	10,581	78%
Q2	2,073	315	3,428	449	6,265	46%
Q3	2,684	307	2,448	364	5,803	43%
Q4	-	8	-	78	86	1%
Average for Year	2,219	452	4,470	410	7,550	55%



Municipality of the County of Kings

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Land of Orchards, Vineyards and Tides

REGIONAL MONTHLY SUMMARY

AUGUST 2020

 *Exceeds limit but not reportable

 *Reportable

	Avg BOD ₅	Avg TSS	Avg E-Coli	Avg pH	LC50
	Monthly Avg Limit: 20 mg/L	Monthly Avg Limit: 20 mg/L	Daily Limit: 200 Count/100mLs	Monthly Allowed Range: 6-9	Permitted >= 50%
Jan	 30	 51	0	7.08	
Feb	 32	 55	25	7.22	
Mar	 24	 65	20	7.29	
Apr	 25	 38	75	7.20	
May	 21	 36	68	6.78	
Jun	 27	 58	107	6.97	
Jul	15	 29	75	6.78	
Aug	10	12	35	6.92	
Sep					
Oct					
Nov					
Dec					