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JOINT BOARD OF MANAGEMENT

Wednesday, April 21, 2021 9:00 AM Via Zoom

AGENDA

- A. Call to Order:
- B. Disclosures of Pecuniary Interest:
- C. Approval of Minutes:

Minutes of the meeting of the Union Water Supply System Joint Board of Management Meeting held Wednesday, March 17, 2021 Pages 2 - 6

D. Business Arising Out of the Minutes

E. Items for Consideration:

- UW/18/21 dated April 16, 202 re: Status Update of UWSS Operations & Maintenance Activities and Capital Works to April 16, 2021 Pages 7 - 9
- 2. UW/19/21 re: UWSS 2020 Financial Report To be provided under separate Addendum
- 3. UW/20/21 dated April 16, 2021 re: Payments from March 13 to April 16, 2021 Pages 10 - 14
- F. New Business:
- G. Adjournment:
- H. Date of Next Meeting: Wednesday, May 19, 2021 via Zoom

/kmj

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JOINT BOARD OF MANAGEMENT

Wednesday, March 17, 2021 9:00 AM Virtually in Zoom

MINUTES

- Members Present: Mayor MacDonald (Vice-chair); Deputy Mayor Verbeke, Councillors Dunn, Hammond, Jones, Tiessen - Leamington Mayor Nelson Santos (Chair); Deputy Mayor Queen, Councillors DeYong, Neufeld, Patterson - Kingsville Councillor Walstedt - Lakeshore
- Members Absent: Councillor Vander Doelen
- Also in Attendance: Rodney Bouchard, Union Water Supply System Manager Khristine Johnson, Recording Secretary

Municipal

- Staff Present: Laura Rauch, Shannon Belleau, Nelson Carvalho Leamington John Norton, Andrew Plancke, Shaun Martinho, Ryan McLeod-Kingsville Andy Graf, Kevin Girard - Essex Nelson Cavacas, Albert Dionne - Lakeshore
- OCWA Staff Susan Budden Present: Dale Dillen, Ken Penney
- Call to Order: 9:04 am

Disclosures of Pecuniary Interest: none

Adoption of Board Minutes:

No. UW-20-21

- Moved by: Deputy Mayor Queen
- Seconded by: Councillor Jones

That Minutes of the UWSS Joint Board of Management meeting of Wednesday, February 17, 2021 is received.

Carried

Page 2

Business Arising Out of the Minutes:

There was none.

Report UW/15/21dated March 12, 2021 re: Status Update of the UWSS Operations & Maintenance Activities and Capital Works to March 12, 2021

The Manager reviews his report with members of the Board. He confirms that Clarifier #3 was taken offline on March 8th to allow for the installation of a new flow meter. This new flow meter will allow for more accuracy. He further confirms that Clarifier #3 is back online as of the date of this meeting.

He updates members on the rehabilitation of Filters #2 and #4. He explains that the filter media and underdrains have been removed by Continental Carbon Group. The crew from JDCMI is in the process of rehabilitating the filters and their work is expected to be completed sometime during the week of March 22nd. He states that this project is moving along nicely.

The Kingsville Water Tower (KWT) rehabilitation project is also moving along nicely with the scaffolding portion of the project still underway. The Manager anticipates that the KWT will be fully enclosed during the first work of April. He explains that the antennas at the top of the tower will have to be removed during the rehabilitation.

Initial testing of KWT isolation commenced on March 11th. UWSS has heard of no water pressure complaints and confirms that pressure data loggers have been installed throughout Kingsville to monitor pressure during the rehabilitation project.

The Manager then explains to members of the Board that the decommissioning of the chloramination system is still ongoing. The former chloramination building will be retrofitted to be used for the maintenance staff. The ammonia storage tanks have been removed.

The new lab construction project has started back up again with construction of the walls almost complete. A new heating/cooling unit will be installed so this new lab area will have its own environmental controls.

JDCMI is currently painting the metal ceiling above Filters #6 and #8, to address some corrosion issues. Since JDCMI was already present at the WTP working on Filters #2 and #4 this allowed for significant cost savings.

A new soft start was installed on High Lift Pump #9. The pump is back in service as this work was completed around March 8-9th.

The Manager notes that Associated Engineering (AE) is currently preparing a prequalification document to pre-qualify contractors for the DAF tendering process. AE is also preparing a draft document to identify options for new reservoir.

The Manager explains that the flows are again significantly higher than in the past years. He notes it is very manageable at this time, his main concern is the summer time peaks.

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March 17, 2021 UWSS Joint Board of Management Meeting Minutes

Page 3

Councillor Patterson asks the Manager is de-commissioning the chloramination system is wise, as he speculates whether it will ever be necessary to implement again. The Manager notes that the current system under Free Chlorine is working well and the best option for the UWSS and at this point this is a permanent decision as he doesn't anticipate going back to chloramination.

No. UW-21-21

Moved by: Councillor Dunn

Seconded by: Councillor Neufeld

That report UW/15/21 dated March 12, 2021 re: Status Update of the UWSS Operations & Maintenance Activities and Capital Works to March 12, 2021 is received.

Carried (UW/15/21)

Report UW/16/21 dated March 11, 2021 re: Moratorium on Applications for UWSS Treated Water Allocations

The Manager reminds members of the UWSS Board of his report presented in January as well as last October. He notes that the UWSS currently has approximately 2 million gallons of water capacity remaining and it was decided in December 2020 that UWSS would allocate the remaining capacity on an interim basis to owner municipalities based on ownership shares. He further reminds members that at the January 2021 UWSS Board meeting the Board directed the Manager to create a working group to determine how best to move forward with allocation in the future.

The Manager notes that the working group met on February 24, 2021 to review the capacity issue facing UWSS. It was agreed that a moratorium be placed on any large application and also have a look at all of the older applications to determine if there is some allocations that are not currently being used. The moratorium time frame will allow the UWSS to continue to work on making the WTP more efficient and potentially re-rated to allow for more capacity. He notes that large applications are those deemed to be over 50,000 I/day and does not include residential developments. His goal is to have a report back to the board by October 31, 2021.

Councillor Tiessen asked the Manager who comprised the working group. The Manager explains that the four (4) local municipalities' senior staff, as well as planners and in total 11 members comprise the group.

Mayor MacDonald thinks the decision is a sound one, which will allow time to ensure that the growth within the area is appropriate. Councillor Walstedt concurs with the mayor.

Councillor DeYong believes this is a good way to allow the working group to come up with some solutions. She asks the Manager how many acres is 50,000 l/day. The Manager indicates it is approximately 1-2 acres.

Councillor Neufeld asks if the 12 month timeline is enough to try and figure things out for the working group. The Manager feels that this is a good starting point to work with. Councillor Neufeld follows up with a question regarding allocation and if there are any Page 4 of 14

March 17, 2021 UWSS Joint Board of Management Meeting Minutes

Page 4

out there that are prepaid. The Manager explains that there are no allocations which are paid for. Councillor Neufeld's final question asks whether there is any ability to just push raw water. The Manager indicates that there is not as that would require an entirely new set of watermains.

The Manager then explains that the moratorium allows for an opportunity to work with the greenhouse industry and municipalities as well. This also allows for a better allocation process to be developed. The summer daily peaks are the concern because last summer some daily peaks that were hit are cause to start considering expansion. This moratorium will allow for some breathing room.

Councillor Hammond notes that he feels the industry is going to keep growing and this issue needs to be addressed in order to see any continued growth in a way that is proper for all within the UWSS boundaries.

Councillor Patterson thanks the Manager for the recommendation as he believes this is something that the residents have been asking for.

Deputy Mayor Verbeke would like to see the amount of water per plant per acre per day for each of the species grown within the greenhouses, as some crops certainly may take more water than others. Cannabis being one that might take more water.

The Manager then suggests that the new AMI system in Learnington will hopefully provide some clearer data on how much water greenhouses are using for various crops.

Deputy Mayor Queen

No. UW-22-21

Moved by: Deputy Mayor Queen

Seconded by: Councillor Walstedt

That the Union Water Supply Joint Board of Management (UWSS Board) implements a moratorium to take effect immediately on new requests for treated water allocations from new or existing entities that use more than 50,000 litres per day;

And further, that the moratorium would not apply to any type of residential development;

And further, that the moratorium will be in effect for up to 12 months;

And further, that the UWSS Board directs the UWSS General Manager, with support from the UWSS-Municipal Treatment Capacity Allocation Working Group (Working Group), to undertake an evaluation of all approved treated water allocations to identify any discrepancies between approved allocations versus actual water usage;

And further, that the UWSS Board directs the UWSS General Manager to deliver a report to the UWSS Board by October 31st, 2021 that provides the Working Group's conclusions and recommendations in regards to the evaluation of approved treated water allocations.

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March 17, 2021 UWSS Joint Board of Management Meeting Minutes

Page 5

Carried (UW/16/21)

Report UW/17/21 dated March 12, 2021 re: Payments from February to March 11, 2021

No. UW-23-21

Moved by: Councillor Patterson

Seconded by: Mayor MacDonald

That report UW/17/21 dated March 12, 2021 re: Payments from February 11th to March 11th, 2021 is received.

Carried (UW/17/21)

New Business

There was none.

Adjournment:

No. UW-19-21

Moved by: Councillor Hammond

Seconded by: Councillor Dunn

That the meeting adjourn at 9:42

Carried

Date of Next Meeting: Wednesday, April 21, 2021, virtually in Zoom.

/kmj

		Page / of 14
		UW/18/21
То:	Chair and Members of the Union Water Supply System Joint Board of Management	
From:	Rodney Bouchard, UWSS General Manager	
Date:	April 16, 2021	UNION WATER SUPPLY SYSTEM
Re:	Status Update of UWSS Operations & Maintenance Works to April 16, 2021	Activities and Capital

Aim:

To inform the UWSS Board about operational and maintenance activities and capital works projects for the Union Water Supply System since the last Board meeting on March 17, 2021.

Discussion:

The UWSS Manager conducts regular meeting with OCWA Operations staff in regards to on-going operations and maintenance programs for the UWSS facilities. The following provides an update on UWSS operations, regular maintenance and major maintenance and Capital Works at UWSS facilities:

- 1. Regular Maintenance on all process equipment and analyzers continue to be completed through OCWA's Workplace Maintenance Management System.
- 2. The work to rehabilitate Filters #2 and #4 is on-going. Jacques Daoust Coatings Management Inc. (JDCMI) completed the rehabilitation and recoating of the concrete filter boxes on April 9th, 2021. The next step is for Continental Carbon Group (CCG) to install the new underdrains from Roberts Filter Group. It's anticipated that the underdrains will arrive on site sometime during the week of April 26th, 2021. Once the underdrains are received, it is expected to take about 3 weeks to install the underdrains, install new filter media, re-install the Aries air scour system and test the filters.
- 3. The work for the rehabilitation of the Kingsville Water Tower is on-going. Installation of scaffolding is nearing the top of the water tower. This will be followed by installation of canvas enclosure. All telecommunications antennas on the water tower have been relocated to mounts on the scaffold structure. The water tower was drained and isolated on April 4-5th to allow for start of interior sandblasting work. New pressure monitors have been installed to monitor the water pressure in the Kingsville pressure zone while the tower is out of service.
- 4. The north settling pond has been taken out of service and is being dewatered so that the sediment in the pond can be excavated. The pond will be allowed to dry for a couple months so that it will be easier and less messy to remove the sediments. It is anticipated that excavation of sediment will occur at the beginning of July 2021.

- 5. The decommissioning of the chloramination system components in the Ammonia Building is on-going. New concrete floors have been poured in the former ammonia storage room and in the equipment room. Removal of some equipment, piping and electrical components is still required. Once this is complete, then removal of the scrubber will begin. Future improvements will include installation of a bathroom and shower, construction of office areas and kitchenette for maintenance staff and installation of overhead doors in the new "garage" bay (former ammonia storage room). The work with retrofitting the ammonia building into a maintenance shop will be on-going into Summer 2021.
- 6. Construction of the new laboratory is on-going. Wall framing, drywall and painting is complete. Doors and windows have been installed. A new heating/cooling unit has been installed to provide the new laboratory its own environmental controls. Epoxy coating on the floor will be installed the week of April 19th, 2021. Furnishings for the room have been ordered.
- 7. The metal ceiling above Filters #6 and #8 have been recoated to address corrosion issues. This work was completed by JDCMI as an add-on to the filter recoating works for Filters #2 and #4.
- 8. The Essex Water Tower will be taken out of service for the week of April 26th, 2021 to allow for warranty inspection and complete any warranty repairs to coating that was installed in 2018. The new cathodic protection system will also be installed at this time. The Town of Essex environmental services staff and fire department have been notified on this upcoming work.
- 9. Detailed engineering design for the DAF retrofit of Clarifier #2 is on-going. The engineer, Associated Engineering (AE) has also prepared a draft Pre-Qualification document to pre-qualify contractors for the DAF work prior to tendering. The pre-qualification process will be initiated at the start of May 2021 and tendering is anticipated to begin at the end of May 2021.
- 10. The UWSS Infrastructure Review Study and master servicing review is ongoing. The consultant team of Associated Engineering and C3 Water have been working to calibrate the UWSS water model to recent water demand data and also to develop future growth models based on growth information provided by local municipalities. The calibrated water model will be used in combination with growth projections to outline future UWSS water demands and needed treatment plant and linear infrastructure improvements. A preliminary report for this work is expected by June 2021.
- 11. The UWSS-WUC Emergency Servicing Study is on-going. The consultant team of C3 Water and Stantec Consulting have been working on integrating the UWSS and WUC water models and reviewing existing linear infrastructure between the two water systems. Testing scenarios are being developed to simulate various emergencies between the two water systems to ascertain redundancy levels based in various infrastructure improvements. A preliminary report on this work is expected for early June 2021.

The first chart shows comparative flows for 2017 through 2021 in Mega Litres (ML) and the second chart shows Millions of Imperial Gallons (MIG) for the period January 1st to April 15, 2021.

	2017	20	18	2019	2020	2021
Flow to Date (ML)	3,266.70	3,50	6.87	3,704.57	3,980.75	5 4,759.84
Max Day (ML)	47.78	45	.61	52.22	55.87	64.70
Min Day (ML)	20.73	23	.56	20.13	25.44	26.74
Average Day (ML)	31.11	33	.40	35.28	37.55	45.33
No of Days	105	1()5	105	106	105
	2017	2018	2019	2020	2021	
Flow to Date (MG)	718.59	771.42	814.91	875.66	1047.04	
Max Day (MGD)	10.51	10.03	11.49	12.29	14.23	
Min Day (MGD)	4.56	5.18	4.43	5.60	5.88	
Average Day (MGD)	6.84	7.35	7.76	8.26	9.97	
No of Days	105	105	105	106	105	

Flows to date are up 779.09 ML (171.38 MIG) or 19.57% from last year. The 2021 flows to date are up 33.68% over the previous 4 year average.

Recommendation:

That this report be received by the UWSS Board for information purposes.

Respectfully submitted,

KR.M.

Rodney Bouchard, General Manager Union Water Supply System Joint Board of Management /kmj

Filename: t:\union wtr\reports to board\2021\uw18-21 uwss operations report for april 2021.docx

UW/20/21To:Chair and Members of the Union Water Supply
System Joint Board of ManagementFrom:Rodney Bouchard, Union Water ManagerDate:April 16, 2021Re:Payments for the UWSS from March 13th to April 16th, 2021

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Aim:

To provide the Board with a copy of payments made by the Union Water Supply System from March 13th to April 16th, 2021.

Recommendation:

For information purposes.

Respectfully submitted,

KR.M.

Rodney Bouchard, Manager Union Water Supply System Joint Board of Management /kmj Filename: t:\union wtr\reports to board\2021\uw20-21 payments from march to april 2021.docx

Municipality Of Leamington Council/Board Report By Dept-(Computer)					AP5130		Page : Time 11	³⁰	
Vendor : Batch : Department :	0011450 T All All	To PTO	0000212			Cheque Bank : Class :	Print Date : 18-Mar-202 07 To 08 All	0	19-Mar-2021
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230440	Willis Busi	ness La	aw						
15052 70-5-0700-7950	LEGAL FEE	S - RE 02070	STRUCT	URING	Professional Services		140 01-Mar-2	2021 18	-Mar-2021 3,293.96
230706	Wolfcrete C	Concret	te Finish	ing					
11 70-7-0700-8745	AMMONIA E	3LDG F 700020	RETROFI	Т	Treatment Plant		140 15-Mar-2	2021 18	-Mar-2021 8,260.30
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Department :	All		Class : All		
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DEPARTMENT	0700 Union Water	System			
50099	Enbridge Gas Inc				
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070100	Golder Associates Ltd				
154378	GEOTESTING - DAF			141 12-Mar-2021	18-Mar-2021
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080250	Hydro One Networks Inc				
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200141682009-	JAN/21 HYDRO - ALBUNA WATE	R TOWER		141 03-Mar-2021	18-Mar-2021
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200152134969-1 70-5-0700-7420	FEB/21 HYDRO - METER#17 002073	Electricity		141 10-Mar-2021	18-Mar-2021 -8.99
70-5-0700-7420	002073	Electricity			47.93
150365	Ontario Clean Water Agency				
NV0000000973 70-7-0700-8710	FEB ENG.SERVKINGSVILLE W	ATER TOWER REHAB Kingsville Water Tower		141 26-Feb-2021	18-Mar-2021 11,748.33
190185	SGS Canada Inc				
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11400648 70-5-0700-7961	WATER QUALITY STUDIES COR 002075	ROSION-LEAMINGTON Water Quality/Corrosion Monitoring Prgm		141 23-Feb-2021	18-Mar-2021 98.31
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Municipality	y Of Leamin	gton		AP5130 Page	Page: 23	
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200348	Corporation o	f the Town o	f Kingsvi	lle		
G1306 70-7-0700-8750	WATERMAIN F		5 CTY RE) 20 Watermains	162 15-Mar-2021	30-Mar-2021 37,377.73
G1307 70-7-0700-8750	WATERMAIN F		4 CTY RE) 20 Watermains	162 15-Mar-2021	30-Mar-2021 3,382.63
996694	Empire Comm			Watermains		0,002.00
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3515 70-7-0700-8730 70-7-0700-8730		016	#6 & #8	Filters Filters	162 29-Mar-2021	30-Mar-2021 16,837.00 16,837.00
180325	Ricoh Canada	Inc				
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Council/Board	Report By Dept-(EFT)	Date : Apr 16, 2021	e 14eof514 Time: 11:37am
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DEPARTMENT 0700	Union Water S	ystem		
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1929770208308 2-15743 70-5-0700-7410	3.66M3 GAS - RUTHVEN W 002073	ATER TREATMENT PLANT Gas	163 19-Mar-202	1 30-Mar-2021 4,641.52
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200141683726- 2-34KW 70-5-0700-7420 70-5-0700-7420	H - METER#15 002073 002073	Electricity	163 25-Mar-2021	I 30-Mar-2021 -8.7 46.42
200141687362- 2-5KWH 70-5-0700-7420 70-5-0700-7420	I - METER#22 002073 002073	Electricity Electricity	163 29-Mar-2021	I 30-Mar-2021 -7.34 39.13
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200141690190- 2-136KV 70-5-0700-7420 70-5-0700-7420	VH - METER#26 002073 002073	Electricity Electricity	163 26-Mar-2021	30-Mar-2021 -13.60 72.49
200208899066- 2-247KV 70-5-0700-7420 70-5-0700-7420	VH - METER#16 002073 002073	Electricity Electricity	163 17-Mar-2021	30-Mar-2021 -16.77 89.39
200220161473- 2-22KW 70-5-0700-7420 70-5-0700-7420	H - METER#14 002073 002073	Electricity Electricity	163 25-Mar-2021	30-Mar-2021 -7.76 41.38
130620 Monar	ch Office Supply Inc			
252792 PAPER, 70-5-0700-7010	BINDERS, INDEX TABS, S 002070	TAMP PAD, ETC Office Supplies	163 08-Feb-2021	30-Mar-2021 167.13
259538 FRAME 70-5-0700-7010	S, STORAGE BOXES, HOC 002070	OKS Office Supplies	163 22-Mar-2021	30-Mar-2021 159.82
160280 Phaso	r Industrial			
22793 LOW LIF 70-7-0700-8735	T ELECTRICAL UPGRADE 700080	ES Low Lift Station	163 22-Feb-2021	30-Mar-2021 7,472.63
			Department Totals :	13,292.59

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