

Minutes – WWTP Stakeholder Update Meeting

Project	Wastewater Treatment Plant Upgrades	Doc Ref	820725-0098 (1.0)
Project Manager	Eslam Maher	Date	September 19, 2018
Location	Teleconference	Time	1:00 PM EST

Attendance

Name	Initial	Email	Organization
<input checked="" type="checkbox"/> Matthew Hamp	MH	M.Hamp@city.iqaluit.nu.ca	City of Iqaluit
<input checked="" type="checkbox"/> Maria Karveli	MK	M.Karveli@city.iqaluit.nu.ca	City of Iqaluit
<input checked="" type="checkbox"/> Greg Thibault	GT	GThibault@GOV.NU.CA	GN (Health)
<input checked="" type="checkbox"/> Azreer Gill	AG	AGill@GOV.NU.CA	GN (Health)
<input checked="" type="checkbox"/> Anne Wilson	AW	Anne.Wilson2@canada.ca	ECCC
<input checked="" type="checkbox"/> Bridget Campbell	BC	Bridget.Campbell@canada.ca	CIRNAC
<input checked="" type="checkbox"/> Sarah Forte	SF	Sarah.Forte@canada.ca	CIRNAC
<input checked="" type="checkbox"/> Derek Donald	DD	Derek.Donald@nwb-oen.ca	Nunavut Water Board
<input checked="" type="checkbox"/> Nicole MacDonald	NM	Nicole.MacDonald@colliersprojectleaders.com	Colliers Project Leaders
<input checked="" type="checkbox"/> Eslam Maher	EM	Eslam.Maher@colliersprojectleaders.com;	Colliers Project Leaders
<input checked="" type="checkbox"/> Derin Boz	DB	Derin.Boz@colliersprojectleaders.com	Colliers Project Leaders
<input checked="" type="checkbox"/> Zach Paquin	ZP	Zach.Paquin@stantec.com	Stantec
<input checked="" type="checkbox"/> Glenn Prosko	GP	Glenn.Prosko@stantec.com	Stantec
<input checked="" type="checkbox"/> Alejandro Rojas	AR	Alejandro.Rojas@stantec.com	Stantec

1. Lagoon Action Plan Update

Item	Description	Owner	Due By
1.1	Colliers informed the meeting participants on the status of the WWTP upgrades and the activities completed to date towards the lagoon action plan (in preparation for diversion during replacement of the primary treatment systems). Colliers/Stantec presented the sludge survey results and provided a draft comparison of the treatment efficiency of the WWTP vs. the lagoon based on the lab results to the date. The lagoon is currently removing approximately 64% BOD and 57% TSS (compared to 9% and 15%, respectively, from the WWTP).	Info	

2. Questions and Discussion

Item	Description	Owner	Due By
2.1	<p>The GN Dept. Health inquired on the following:</p> <ul style="list-style-type: none"> - the current sludge volume in the lagoon; - whether the lagoon is operated in a flow-through scenario or fill and drain; - if the results are based on the current volume of the lagoon; - if decanting during diversion will pass through the existing 	Info	

Item	Description	Owner	Due By
	<p>outfall pipe; and,</p> <ul style="list-style-type: none"> - obtaining a copy of the sampling results. <p>Stantec clarified that the sludge volume in the lagoon is approximately 1,600 cu.m. and the results are based on this volume. As well, the lagoon will be operated during diversion from the WWTP as a flow-through system with an estimated 7-day retention time. An outlet pipe from the lagoon and the outfall of the WWTP meet in a channel which then goes to the ocean. This will remain during sewage diversion period.</p> <p>The City of Iqaluit provided the lagoon BOD and TSS testing results obtained during the summer 2018 to the GN. Lagoon summer testing results and lagoon survey results will be attached to the “Existing Sewage Lagoon Performance Review” final letter.</p>		
	<p>The NWB inquired on the following:</p> <ul style="list-style-type: none"> - If the volume in the lagoon will increase; - If desludging is planned for future contingency volume; and, - When the lagoon was last used for a long period of time. <p>Colliers and Stantec clarified that any volume change would be minor as the flow in would be close to the flow out. Desludging is planned for next summer and the full capacity of the lagoon will be restored. The lagoon has a (dry) solids volume of approximately 1,600 cu.m. that will be removed. The lagoon was used long-term (permanently) from 1991-2006 before the WWTP was commissioned, but data from this period is not available.</p> <p>The City noted that lagoon diversion is done 4 times per year for maintenance (to change the Salsnes filter) and normally 10-14 days at a time. Both influent and effluent are tested just before shutdown, during and after, and results have been good.</p>	Info	
	<p>CIRNAC inquired on the following:</p> <ul style="list-style-type: none"> - The volume of flow passing through during the trial and if it is comparable to the planned diversion; - If, with the current height in the lagoon being 5.9 m and the maximum height being 6.5, there be an overflow scenario, or the City continue to decant the lagoon; - If the results will be as good in colder weather; and, - If the lagoon system (including decanting) can freeze. <p>Stantec clarified that the full flow was being diverted to the lagoon during the trial and that although there is still a possible height increase of 0.6 m, the lagoon will continue to be decanted during the diversion. During winter, the BOD removal will be reduced (to perhaps 30%, but still higher than the existing WWTP) and the TSS removal should be higher. Further, if flow is continuously maintained to the lagoon then freezing should not occur. However, an overflow spillway was</p>	Stantec	

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	constructed in the berm in case which joins the existing outfall channel. Stantec will include the laboratory data sheets and sludge survey in the lagoon performance letter.		
	The GN Dept. Health noted that the potential of accepting the recommendation to bypass/divert flow to the lagoon for the requested timeframe will be discussed with the Chief Medical Officer to provide a response in writing.		
	It is fortunate that the lagoon outfall is in same location as WWTP outfall as the public knows the location. The Dept. Health requests sampling be continued through diversion so that the treatment levels, which are better than those of the WWTP, can be demonstrated (this is not the current public perception).		
	<p>Conclusion</p> <ul style="list-style-type: none"> - The City will continue to use the lagoon as a treatment unit until the commissioning of the new equipment in the WWTP. This is a better option than using the current equipment in the WWTP. - The City will continue to monitor the lagoon performance and take samples. - The lagoon diversion should continue until the primary commissioning of the WWTP. 	City	

New Business

Item	Description	Owner	Due By
	None		

Next Meeting

Date	Time	Location
TBD	TBD	TBD

These minutes are deemed to be accurate and acceptable as issued. Please advise the Project Manager of any errors or omissions within 5 working days of receipt.

Distribution: All invited
File

Attachments: Existing Sewage Lagoon Performance Review – Sept. 19, 2018 (Stantec)