



**Dufferin Aggregates
Teedon Pit Community
Liaison Committee Meeting
Minutes**

Date:	Tuesday, April 3	6:30pm – 8:30pm	
Location:	Wyebridge Community Centre, 8340 County Rd 93, Tiny, ON		
Chair:	John Matheson	StrategyCorp	
Participants:	Steffen Walma	Deputy Mayor of Tiny Township; Alternate for Councillor Hinton	
	David Barkey	Local Neighbour	
	Peter Anderson	Local Neighbour	
	Christopher Williams	Local Neighbour	
	Paul Cowley	Federation of Tiny Township Shoreline Associations; Alternate for Judith Grant	
	Jessica Campatelli	Local Neighbour	
	Richard Erdmann	Dufferin Aggregates	
	Kevin Mitchell	Dufferin Aggregates	
	Jessica Ferri	Dufferin Aggregates	
Minutes:	Alicia Sinclair	StrategyCorp	
Regrets:	Richard Hinton	Tiny Township City Councillor	
	Judith Grant	Federation of Tiny Township Shoreline	
	Mohamed Mousa	Dufferin Aggregates	
Guests:	Anna Romera	Local Neighbour	

Introduction by StrategyCorp

- StrategyCorp presented on their role as facilitators and the rules for the CLC.

Discussion of the Terms of Reference

- StrategyCorp led a discussion to affirm and clarify the Terms of Reference. The group affirmed that the CLC is not a decision-making body but, instead, is a focus group for dialogue. As such, CLC members will be indemnified against any harm when they speak at the meetings on behalf of themselves or other local neighbours.
- StrategyCorp will maintain a running list of the issues raised at the CLC.

Introductions

- The CLC welcomed Deputy Mayor Steffen Walma, sitting on behalf of CLC member Councillor Richard Hinton; Paul Cowley, sitting on behalf of Judith Grant; and Anna Romero, taking notes for Peter Anderson.

Approval of the Minutes

- The CLC approved the minutes from March 5, 2018 with no changes.

Mapping of Issues

- StrategyCorp presented the matrix of issues developed from the first meeting. In the course of the CLC meetings, the 5 issues—macro issues, legacy/trust issues, operations issues, water issues, and First Nations issues—will be discussed in the context of the ongoing operations, the Permit to Take Water (PTTW), and the expansion. StrategyCorp will maintain an Excel spreadsheet of the issues, including Dufferin Aggregates' response to the issues, when the issue was addressed, and what follow up was needed. SCI will share the Excel spreadsheet with the CLC.
- The following is the running list of issues, and new issues raised in the meeting are bolded.

Macro Issues	<ul style="list-style-type: none">• Several participants asserted that they recognize the importance of aggregates but urged their opinion that the value of the aggregate resource did not justify extraction at this site given the potential for damage to the water resource.• Does surface rehabilitation matter compared to how the holes impact the aquifer?
Legacy Trust Issues	<ul style="list-style-type: none">• In the opinion of participants:<ul style="list-style-type: none">○ the community did not enjoy a positive relationship with the previous operator of the Pit.○ concerns and complaints were ignored by the previous operator○ questions asked during public meetings were left unanswered, such as questions about tree cuttings and hydrogeology○ the fact that the original approval for the site was from the 1970s raised concerns that it might have been outdated.• In the past, some immediate neighbours experienced issues with their wells, which they believed were attributable to the operation of the pit.• The previous operator built a wash pond on the site. Some expressed concern that this pond may not have been properly authorized.• As a result of these issues, in the opinion of participants, there is a legacy of concern and mistrust between the community and the Pit that Dufferin must now manage.• Can you create a running list of the operations to build trust with the community?• Can you take steps to build trust regarding analyzing and reporting survey data from the well survey?

	<ul style="list-style-type: none"> • Can you clarify the well survey process?
<p>Water</p>	<ul style="list-style-type: none"> • In the opinion of participants, the potential impact of the Pit on water is the biggest issue. • Generally, the view was expressed that this aquifer is the “world’s purest” aquifer, and, therefore, the water resource is more valuable than the aggregate resource • Accordingly, they are of the view that if there is any doubt about the hydrogeology, Dufferin should use the precautionary principle. • Other projects have caused the community to be very interested in water. <ul style="list-style-type: none"> ○ For example, public concerns about links to Site 41 and the Alliston Aquifer. <p>The following specific questions/concerns were raised:</p> <ul style="list-style-type: none"> • Taking the water: Do levels of water taking run the risk of “running down” the supply of water? • Returning the water: <ul style="list-style-type: none"> ○ Does the wash pond contaminate the rest of the water? ○ Does the work in general contaminate the rest of the water? ○ Is the silt in suspension contaminating the aquifer? ○ Is there a risk of spills arising from the operations of the pit? • Does the Pit have an impact on neighbouring wells? • Methodology/sufficiency of the well tests: <ul style="list-style-type: none"> ○ Some expressed dissatisfaction with the MOECC well conclusions ○ Some questioned if there should be more test/monitoring wells other than PW1009 ○ Some questioned if a new well survey should be done as the last time done was in 2010. ○ Some questioned if the tests were too localized. ○ Should the receptor radius be larger than 5km? ○ Should the domestic well survey have a larger sample size (n = 5)? ○ How was the water table established? (Concerns with Ross Campbell’s assessment) • Is the 1.5m buffer between the water table and the extraction floor sufficient to protect the water table? <ul style="list-style-type: none"> ○ Dufferin representatives explained that the water table measurements are conducted over time to account for varying precipitation and water levels by year. ○ Dufferin is currently operating more than 20M above the water table. ○ Dufferin has retained GHD as its Hydrogeology Consultant. • <i>Wilf Ruland’s report regarding aggregate washing at Teedon Pit. This report concluded that the wash pond’s liner lacks a clay liner that would protect the high-level aquifer. Does the wash pond have the protective clay liner?</i> • <i>What is the impact of the water in the settling pond on the aquifer? Can you line settling ponds and source ponds to</i>

	<p><i>prevent seeping?</i></p> <ul style="list-style-type: none"> • <i>Is the MNM 3D scanning of the aquifers available?</i> • <i>How are the 4 aquifers connected to one another, and how do they impact one another?</i> • <i>Is there a bigger impact on the Allister aquifer?</i> • <i>Does removing the sand from the hill take away a natural filter?</i> • <i>Does Dufferin alter the excavation plan to reflect the changing 1.5M buffer?</i> • <i>Do you chase the water table? What do you do if the water table rises/drops?</i> • <i>What do you do if silt starts moving?</i> • <i>What is the timing of the process to engage with the PTTW?</i>
<p><i>Operations (noise, safety, dust, etc.)</i></p>	<ul style="list-style-type: none"> • “Aquifer over aggregate”: Some participants expressed the view that operational improvements (e.g. noise attenuation buffers) were welcome, but were secondary to overarching concerns about the sustainability of the water resource: <ul style="list-style-type: none"> ○ Bylaws and hours of operation as a tool for minimizing ○ Dust and their impact on plug filters on wells • Future rehabilitation during and after extraction. <ul style="list-style-type: none"> ○ Dufferin shared its track record on rehabilitation. • Some concerns were raised about potential safety risks arising from traffic and road alignments: <ul style="list-style-type: none"> ○ Are certain roads/intersections safely designed for gravel trucks? ○ Darby Road is not wide enough and lacks sidewalks and shoulders. ○ Do trucks have an effect of the safety of pedestrians and school busses? • Noise and vibration and their impact on use of property (e.g. sitting outside) by immediate neighbours. • Does geometry of the pit exacerbate sound issues (“creates an echo chamber”)? • Is noise considered an “adverse effect?” • Is there an “air, noise, and vibration” permit? • <i>Does Dufferin Aggregates uphold the Cornerstone Standards?</i> • <i>Can Dufferin provide notifications on operational plans to the committee?</i> • <i>Can Dufferin operators control their righthand turns?</i> • <i>Can Dufferin “buy” into an existing application?</i> • <i>Is the application timely and relevant to today?</i> • <i>What was the communication between Council, Tiny Township officials, and Dufferin?</i> • <i>Will Dufferin continue communication with Tiny Township officials?</i> • <i>Does this plan conform with Simcoe Official Plan?</i>
<p><i>First Nations’ Issues</i></p>	<ul style="list-style-type: none"> • Concern was expressed about the lack of First Nations representatives on this committee:

	<ul style="list-style-type: none"> ○ Inquiries about the process Dufferin undertook to secure First Nations representation. ○ Participants asked what consultation protocols were required with First nations, having regard to Treaty/Legislative rights and entitlements.
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In questions arising from this discussion:

- Dufferin representatives explained that Mr. Ruland's visit was delayed due to availability.
- Dufferin representatives explained that CRH was one of the developers of the Cornerstone Standards and, thus, complies with the standards.
- Dufferin representatives agreed to provide a running document with operational plans and will notify committee members of the operations in advance.

Teedon Pit Update

- Dufferin representatives notified the committee that as of March 26, drilling began to install additional monitoring wells. In questions arising from this discussion:
 - Dufferin representatives explained that they are drilling 4 more wells, and these wells are nested, which means there is a shallow well next to a deep well in order to measure the aquifers and the water table. The deepest wells are 40M and the shallowest wells are 12-15M, and the shallowest of the wells will be above the aquitard. The deeper well is 40M deep so that it can touch the aquifer, which allows Dufferin to measure the impact of their operations on the aquifer.
- Dufferin representatives updated the committee that the neighbourhood well survey was being conducted. In questions arising from this discussion:
 - Dufferin representatives explained that they are surveying those within 1 kilometer of the source of taking, that MOECC compiles all data and aggregates it into a report, and that there is no identification of residents. Dufferin surveyed 78 homes, and 19 have completed the survey thus far. Dufferin agreed that they are willing to help participants fill out the survey.
 - Dufferin representatives explained that they will provide raw data from the lab (Maxim Lab), which is tied to the Ontario drinking water objectives. Dufferin will take steps to build trust with residents with regards to data analysis and reporting.
- Dufferin representatives notified the committee that they will commence production operations and washing when overnight temperatures permit. In the questions arising from this discussion:
 - Participants conveyed concerns regarding the communication between Dufferin managers and the contractors working at the pit. There were concerns about dust.
 - Dufferin representatives explained that they are taking baseline data before drilling the new wells and that they are measuring both water quality and water quantity.
 - Dufferin representatives explained that in their 25 operations, they have never experienced issues of silt moving in the wash ponds.
 - Dufferin representatives said they would look into the noise and vibration impact 1km away from the pit.
- Dufferin representatives notified the committee that they filed an appeal with the Township of Tiny regarding the Official Plan and Zoning Bylaw applications for the proposed Pit expansion. In questions arising from the discussion:
 - Participants raised concerns about the validity of a license from the 1970s.

- Dufferin representatives explained that three applications were filed: (1) zoning by law, (2) official plan amendment, and (3) license under the Ministry of Natural Resources and Forestry. The application was deemed complete by the Township.
- Participants believe that the Pit does not comply with the Simcoe Official Plan. As such, they believe the Pit creates an “adverse effect.” Dufferin representatives explained that the appeal process would follow the Ontario Municipal Board and that they would notify CLC members about public meeting dates and other notifications.

First Nations Update

- Dufferin representatives updated the committee on the issue concerning First Nations participation. Dufferin met with the Metis Nation of Ontario a couple of weeks ago to discuss both the Teedon Pit and other Dufferin issues. The Metis Nation representatives said they do not want to participate on the CLC but, instead, want to have their own meetings with Dufferin, which Dufferin agreed to.
- Dufferin is in the process of scheduling meetings with the Beausoleil First Nation and the Rama First Nation.
- Dufferin noted that they contacted a fourth First Nations group, but the group said they did not want to participate in the CLC because they believed the Teedon Pit was not within their Treaty Rights.
- Dufferin will provide the contact information of the First Nations and Metis groups they plan to meet with.

PTTW

- Dufferin representatives presented on the Permit to Take Water (PTTW) and their research to date on variables impacting the water and water table at the Pit location. The Ministry of Environment and Climate Change (MOECC) issued CRH a PTTW for Teedon Pit on August 14, 2017, which will expire on April 29, 2018. Dufferin has applied for renewal on January 18, 2018, and the last day for comment is April 23, 2018. This application is for the same pumping rates and volumes as the existing permit and applies to both the well and the source pond.
- Dufferin presented on the maximum rate/minute of taking water, maximum litres/day, operating hours/day, operating days/year, and the timeline for taking water for both the PW1-09 well and the source pond. Dufferin explained that they rarely run at capacity for all of the indicators, and the water taking system runs on a closed loop system that runs over the ground when traveling from the wash plant to the settling ponds and back to the source pond. In questions arising from the discussion,
 - Dufferin representatives explained that they take source water for 29 days to fill the pond, and then they take water from the source pond for 69 days for washing. They explained that water loss is from product only; there is some water infiltrating into ground, but they’re still trying to do research on this.
 - Participants raised concerns that the well was improperly labelled an industrial pond when it may be a domestic well.
 - Dufferin representatives explained that they would have put the source pond closer to the well if they could and that the well is 40M deep.
- Dufferin representatives showed a time series plot of the water table elevation from PW1-09, MW1, and MW1-09. The water table remained unchanged from February 2009 to December 2017 for all three wells. Dufferin representatives explained that the wells are 10M from the surface. In questions arising from the discussion,

- Participants raised concerns about the lack of lining in the settling ponds, and Dufferin said they would do research on moving silt.
- Dufferin representatives explained that water stays static and that the outlet connects to a river, and participants raised concerns about the impact of work on the water downstream. Dufferin representatives explained that they measure their water and where the water travels to by measuring the aquitard.
- Dufferin representatives explained that the 1.5M buffer is measured from the highest water table of the 4 aquifers. If the water table rises when they're halfway through the property, they would stop extraction. Furthermore, Dufferin explained that they cannot lower the water table to extract more aggregate because the work with a 1.5M from the highest table.
- Participants raised concerns about endangered species in the site location.
- Participants raised concerns about how to best convey this information back to their neighbours.

Next Meeting

- The next meeting will take place Wednesday, June 13, 2018 from 6:30 – 8:30pm.