

Final Notes of Meeting #1 Hydro One Community Liaison Committee–Clarington TS Project

Date of Meeting: Thursday, June 5, 2014

Time: 7 p.m. to 10 p.m.

Location: Solina Community Hall, 1964 Concession Rd 6, Hampton, ON

Participants

- Brad Bowness, Director, Project Management, Hydro One
- Jeff Cridland, Clarington TS Project Manager, Hydro One
- Paul Dalmazzi, Planner, Hydro One
- Carrie-Lynn Ognibene, Senior Advisor, Corporate Relations, Hydro One
- Alderville First Nation
- Enniskillen Environmental Association (EEA)
- Friends of the Farewell
- Mississaugas of Scugog Island First Nation

Observers

- City of Oshawa – staff
- Municipality of Clarington – staff
- Mayor Adrian Foster, Municipality of Clarington
- Mary Novak, Regional Councillor, Wards 1 & 2, Municipality of Clarington
- Joe Neal, Councillor, Ward 1, Municipality of Clarington
- Denise Jamal, Manager, Public Affairs, Hydro One
- Sarah Cohanim, Planner, Hydro One
- Individual residents

Regrets

- Durham Sustain-Ability
- Hiawatha First Nation

Meeting Facilitator

- Judi Clarkson, Mediated Solutions

The meeting was called to order at 7:10 p.m. with Brad Bowness presiding as Chair.

Welcome & Introductions

Brad Bowness welcomed everyone to the first meeting of Hydro One's Community Liaison Committee for the Clarington TS Project and thanked participants for their interest in being involved. Brad explained his role at Hydro One and reiterated why the Clarington TS project is important for Ontario's electricity system and consumers in Durham Region.

Brad acknowledged residents' concerns about protecting groundwater. He said that Hydro One is committed to working with the Municipality and the community to define a process that will lead to the selection of an independent third-party technical expert to be funded by Hydro One who can act a resource to the Municipality and the community on all ground and surface water monitoring conducted for this project. Hydro One will move quickly to host a workshop for the purpose of identifying criteria for selecting a third party technical expert.

Brad also made reference to the key issue of site access which will be addressed by the Project Manager in his presentation.

Brad introduced the Hydro One staff in attendance, and asked the meeting facilitator and individuals from participating organizations to introduce themselves. The representative of the Mississaugas of Scugog Island First Nation took a moment to acknowledge that the meeting is being held within the traditional territory of the Williams Treaties First Nations.

Review of agenda and meeting ground rules

Judi Clarkson of Mediated Solutions introduced herself and her assistant. She advised that she was engaged by Hydro One to facilitate the meeting and to provide note-taking services. She reviewed the agenda and proposed ground rules for the meeting which were intended to keep the meeting on time and to ensure that everyone who wishes to speak has the opportunity to do so. Judi indicated that comments and suggestions being recorded would be posted on the wall. Participants were invited to look at the notes at the end of the meeting for errors or omissions.

Friends of the Farewell proposed that the next agenda item, to review of the draft Terms of Reference for the Community Liaison Committee, be moved to the end of the meeting and participants concurred.

Overview: Project description and video, construction schedule and access road

Jeff Cridland showed a video on the Clarington TS project. The video can be viewed at www.HydroOne.com/projects/Clarington. He also outlined a high-level schedule for project construction, showed a diagram of the proposed station layout and distributed draft access route drawings, noting issues related to obtaining access to the site for preparatory line relocation work which must be completed prior to the start of construction later this year.

Discussion:

Project need and location

- The EEA asked whether the station is serving the local area, or a larger portion of the province, as the OPA had previously described the need for the station as local. Hydro One explained that the station is required to maintain a reliable supply of electricity both for Durham region and for Ontario's electricity grid as a whole.
- There was discussion about how Clarington TS will compensate for the output of Pickering Nuclear Generating Station (once decommissioned) and the EEA asked if the station would "work" if built on another site in the region, providing it was located where 230 kV/500 kV lines meet. Hydro One stated it would.
- The EEA asked what will happen to Cherrywood TS when Pickering Nuclear Generating Station is decommissioned, and said they understood Cherrywood TS would be taken out of service once Clarington TS is built. Hydro One expressed they were not aware of this.

Action #1: *Hydro One will clarify in writing the future plans for Cherrywood TS (See Appendix A, Summary of actions and follow-up responses).*

Station Layout

- In response to the EEA's question about the depth of the station footings, Hydro One responded that detailed design and engineering of the foundations had not been completed at the time the EXP geotechnical survey was conducted in June 2012. Hydro One Engineering uses the results of geotechnical surveys in addition to its own design standards to design the foundations.
- Representatives of the EEA expressed concern regarding the amount of stormwater which might flow from the site, and where the runoff will go. Hydro One indicated that the water will run into the headwaters of the Harmony Creek. Hydro One's consultant (Stantec) will be developing a Stormwater Management Plan.

Action #2: *Hydro One will provide a copy of Stantec's Stormwater Management Plan to the Municipality of Clarington and to the Community Liaison Committee. Once the Municipality and the Central Lake Ontario Conservation Authority (CLOCA) have reviewed and commented on the Stormwater Management Plan, Hydro One will provide the final road access drawings to the CLC and to CLOCA technical staff.*

Construction Schedule

- In response to a question about whether the well monitoring is in line with the construction schedule, Hydro One stated that the first year (full seasonal data

collection) and hydraulic testing portion of the monitoring program will occur prior to station construction, which is currently expected to begin in December 2014.

Action #3: *Hydro One will provide the Baseline Conditions Report prior to station construction and prior to the fall meeting of the Community Liaison Committee.*

- Friends of the Farewell asked whether the habitat restoration at the station site could begin earlier in the schedule or during project construction. Hydro One responded that for safety reasons, planting cannot occur around active construction areas; however, once the 230 kilovolt (kV) lines are relocated, there may be opportunities to do some planting while station construction is occurring.

Action #4: *Hydro One will look into opportunities for habitat restoration during construction of the station.*

Access Road

- Hydro One stated that the Company has applied and provided drawings to the Municipality of Clarington for site access from Townline Road (preferred access); however, it will be necessary to apply for access from Langmaid Road if unsuccessful with Townline Road. An observer stated that Hydro One already received permission from the Municipality in 2006 for access via Townline Road. Hydro One responded that the Council resolution passed in relation to the previous Enfield TS project is not applicable for the Clarington TS project. As such, Hydro One continues to work with the Municipality to secure all required permits and agreements for the use of the unopened Townline Road allowance.
- The EEA asked why the access road drawings are not stamped by an engineer. Hydro One explained that the drawings are still considered draft and will only be stamped once they have been approved by municipal engineering staff.
- Members of the EEA asked how Hydro One will quantify the flow and amount of water that would come off the site and the access road, and asked how the road could be designed without that information. It was suggested that Hydro One should also consult with City of Oshawa engineers (because the road is on the border of the two municipalities) to ensure the amount of runoff can be handled by the Harmony Creek watershed.

Action #5: *Hydro One will ensure the City of Oshawa's engineering department reviews the access road design and the Stormwater Management Plan.*

Hydro One's Groundwater and Surface Water Monitoring Program

Paul Dalmazzi presented Hydro One's Groundwater and Surface Water Monitoring Program, developed by Stantec Consulting Ltd. A copy of the Program and Paul's

presentation slides are posted on www.HydroOne.com/projects/Clarington under the Community Liaison Committee section. [Note: The Groundwater and Surface Water Monitoring Program was subsequently approved by the Ministry of the Environment on June 24, 2014. A copy of the Ministry's letter of approval is posted on www.HydroOne.com/projects/Clarington, under the Community Liaison Committee section.]

Discussion:

- The EEA asked whether the tests that Stantec had completed as described in the Monitoring Program had confirmed their earlier findings. The EEA requested that the data be received prior to Fall 2014. Hydro One indicated that there is an early indication that the new data did confirm the results from the studies and research undertaken during the Class EA process; however, Stantec has advised that it would be prudent to include a full year of data in the Baseline Conditions Report in order to capture seasonal fluctuations. As noted in Action #3 above, Hydro One will provide the Baseline Conditions Report in fall 2014, prior to station construction and the fall meeting of the CLC.
- The EEA asked why there is no December 2013 groundwater monitoring data, as described in the Monitoring Program, and how there will be four seasons of data if this information is outstanding.

Action #6: *Hydro One will confirm what data Stantec has collected to-date for the Monitoring Program, particularly what they have for December 2013, and report back to the CLC.*

- The EEA expressed concerns with Hydro One moving ahead with the site preparation and clearing before the hydrogeological data is confirmed and before that data is shared. Hydro One said it did not want to provide a “partial picture” of the Monitoring Program and that waiting for four seasons of data will provide a better representation of site conditions. Hydro One also does not expect that the relocation of the existing 230 kV towers will have any adverse effects on groundwater, as the property has contained similar facilities (overhead transmission lines) for more than 30 years. As noted in Action #3 above, Hydro One will provide the Baseline Conditions Report in fall 2014, prior to station construction and the fall meeting of the CLC.
- EEA members stated they believe it is prudent to have an independent consultant involved in the Monitoring Program, because the results of the consultant who is working with them (Dr. Cherry of the 360 Group) are different from those of Stantec. The EEA said they have yet to receive Hydro One’s technical response to the analysis provided by Dr. Cherry. Hydro One responded that Stantec’s expert is an experienced professional hydrogeologist. Further, other agencies, such as CLOCA and the MOE, are providing their input. Hydro One believes that the EEA’s concerns will be addressed by the technical expert selection criteria workshop and the hiring of an independent third-party expert to

review the Baseline Conditions Report and subsequent progress reports and data.

Action # 7: *Hydro One will move forward quickly to convene a workshop to seek agreement on objective selection criteria for the hiring by the Municipality of Clarington of an independent third-party technical expert to be funded by Hydro One. This expert will serve as a resource to residents and the municipality in reviewing and interpreting data and the results of Hydro One's Monitoring Program.*

- The EEA asked whether the monitoring wells will “catch” any spills that result from the station. Hydro One explained that each transformer contains 37 alarms and warnings, 12 of which are designed to shut the transformers down when alarms are triggered, isolating the equipment. Other mitigation includes pressure-release plates and containment systems on the transformers, containment pits below the transformers, and oil-water separators which will prevent anything from leaving the site. In the unlikely event of any mineral oil escaping the multiple levels of containment, there will be an Emergency Response Plan for Clarington TS which will detail procedures for response to spills, which may include additional monitoring wells as deemed necessary.

Action #8: *Hydro One will share the results of the Monitoring Program including water quality analysis with the CLC in the form of regular progress reports.*

Action #9: *The Emergency Response Plan for Clarington TS, as per the Minister's conditions, will be posted to Hydro One's website when it is complete.*

- The EEA asked whether Hydro One can guarantee that no chemicals will contaminate private wells, and where residents would get water in the event that wells did become contaminated. Hydro One indicated that in the extremely unlikely instance that water should become contaminated, a safe supply of drinking water would be provided by Hydro One to affected well owners in the community.
- **Action #10:** *Stantec will develop a Well Mitigation Plan which will determine the necessary course(s) of action in the event that residential water wells are affected by Clarington TS. The Well Mitigation Plan will be presented at the next meeting of the CLC along with the Baseline Conditions Report.*
- The EEA asked if landowners can take samples of their own wells and share that information with Stantec. They have concerns with the samples only being taken seasonally, which would allow for “gaps” in well information, and they would like the opportunity to bring data to Hydro One if they are worried with their well water quality.

Action #11: *Hydro One will consider the suggestion that individual landowners be allowed to sample their own wells and share that information with Hydro One and Stantec.*

- The EEA raised a concern that the soil conditions at the site were made of wet, flowing sand. Hydro One stated that the field studies taken during the Environmental Assessment (EA), which consisted of approximately 40 boreholes throughout the site, showed that the majority of the sub-surface condition is consistent with Newmarket Till (very dense sandy silt) which is generally recognized as an aquitard. These findings are consistent with the secondary source literature reviewed during the EA process. The EEA referenced a scientific paper (Davies & Holysh, 2004) which described a field study that found Newmarket Till at roughly 20 metres below ground surface. Hydro One clarified that this paper referred to a single borehole drilled approximately 65 km northeast of the Clarington TS site. Hydro One considers the site-specific field studies undertaken during the EA process to be more representative of the conditions at the station site.

- The EEA suggested that the current offer of well monitoring for adjacent landowners' wells be expanded to surrounding wells, within reason.

Action #12: *Hydro One will consider the EEA's request to expand the radius for the monitoring of private landowner wells and will provide a response within one week.*

- The EEA suggested that the monitoring on site be extended from 2 years to a minimum period of 5 to 10 years. This would allow for any contamination to be identified as effects would likely take longer than 2 years to be identified.

Action #13: *Hydro One will consider the EEA's request to extend the well Monitoring Program beyond 2 years post-construction.*

- The EEA asked what "attempt" means in the Monitoring Program when referring to contacting well owners not registered with the MOE. Hydro One clarified that it makes all reasonable efforts to contact potentially eligible private well owners, including those not registered with the MOE.

Action #14: *Hydro One will send a letter regarding the private well monitoring program within one to two weeks, and follow-up contact will be conducted by Stantec and Hydro One to ensure that all wells have been identified.*

- The EEA asked if it would be possible to have an independent consultant do the sampling for the Monitoring Program, as the EEA believes there is a conflict of interest with Stantec. The EEA lacks trust in Stantec (particularly with their record keeping and data sharing) and believes that the public's perception of Hydro One would be improved if another consultant were involved.

Hydro One indicated that an independent lab does the analysis of any samples taken at the site and Stantec must provide the lab with a Chain of Custody with each sample. In addition, as noted in Action #7 above, Hydro One has committed to fund the hiring of an independent third-party expert to be select based on

criteria agreed to by all parties, who can act as a resource to members of the community and the Municipality.

Review of the Terms of Reference

Carrie-Lynn Ognibene reviewed the Minister's condition requiring the establishment of a Community Liaison Committee (CLC) and Hydro One's goals for the Committee. She reviewed the draft Terms of Reference, which had been circulated in advance with the meeting agenda, and solicited feedback. She reiterated that the Community Liaison Committee is only one way that Hydro One will communicate with the community during the construction phase of the project. The draft Terms of Reference and a copy of Carrie-Lynn presentation are posted on www.HydroOne.com/projects/Clarington under the Community Liaison Committee section.

Discussion:

- The EEA asked who was invited to participate on the CLC. Hydro One stated that all organizations and individuals who provided input during the Class EA process, whether by signing in at Public Information Centres, or through correspondence with Hydro One on the project, including those who submitted Part II Order requests, were invited to participate. Hydro One also invited local elected officials who represent the project area to observe the meeting and will extend an invitation to the new MPP—Durham for the next meeting. Hydro One also mentioned that the Ministry of the Environment and CLOCA would be monitoring Committee proceedings, but had opted not to participate actively.
- The EEA commented that there have been discrepancies with note-taking at previous meetings and requested permission to record the meetings. The facilitator was asked by Hydro One to comment on her experience with recording meetings and she stated that it is up to the committee to decide how to proceed. The facilitator noted that even when meetings are recorded, there can be concerns. The facilitator said that notes are being posted on the wall for review during and immediately after the meeting to ensure everyone can see what has been recorded.

Hydro One stated that the “no recording” rule in the draft Terms of Reference was meant more specifically for media, as it was felt that this could disrupt meeting productivity. Hydro One said that the circulation of draft notes of meeting to participants for their review should help capture any errors or omissions, but that Hydro One will remain open to the possibility of recording meetings in the future.

Action #15: *Hydro One will take into consideration the EEA's request that meeting proceeding be recorded.*

- The Mississaugas of Scugog Island First Nation requested that the Coordinator for Williams Treaties First Nations, be copied on the final notes of the CLC meeting, and Hydro One agreed to do so.
- Friends of the Farewell suggested that there be a vice-chair or co-chair that is not from Hydro One, so that interests can be evenly represented, including the development of the agenda for subsequent CLC meetings. Hydro One explained why it had determined Brad Bowness would chair the initial meeting, but accepted the suggestion that the Committee, going forward, should have a co-chair or vice-chair that represents one of the participating organizations.

Action #16: *Hydro One will schedule time at the beginning of the next CLC agenda for participants to nominate and select a co-chair who represents one of the participating organizations.*

Comments from Observers

The facilitator opened up this period of the meeting for comments from observers.

- An observer stated that it was suggested to Hydro One that the EEA should dig their own well on Hydro One property, as Dr. Cherry's report suggested that Hydro One's wells were not deep enough. Hydro One was asked if it would be willing to take Dr. Cherry's recommendation and dig a deeper well. It was also noted by the EEA that Dr. Cherry should be involved in the technical expert selection criteria workshop, as this would establish confidence in Hydro One. Hydro One said it will defer this discussion to the Water Quality Workshop.
- Councillor Mary Novak asked whether the transformer containment system would be under water. She asked if the CLC could receive this information in writing.

Action #17: *Hydro One will provide a written response to the CLC to confirm that the transformer containment system will not be submerged or immersed in water.*

- An observer asked how Brian McCormick (Hydro One's Manager of Environmental Engineering and Project Support) obtained Dr. Cherry's report, as it was not provided by the EEA, and if the MOE provided it to him. Hydro One replied that during review of the Part II Order requests, the MOE provided the letter and technical analysts by Dr. John Cherry to Hydro One for information.
- Mayor Adrian Foster, Municipality of Clarington, stated that there has been difficulty connecting with the MOE; that even MPP John O'Toole has also been unsuccessful in contacting the MOE. He believes they the MOE has not communicated or explained its documentation related to the EA decision. Hydro

One indicated that the MOE is monitoring the CLC and will receive a copy of the final notes, and thus will be alerted to the concern expressed by the Mayor.

Other Business

- A representative of the EEA read a statement to the group. The statement is attached as Appendix B.
- An EEA representative who was unable to attend the first meeting sent Hydro One a list of questions in advance of the meeting that they would like answered. These questions were read aloud by a member of the EEA at the meeting. Hydro One committed to respond to these questions when circulating the notes of meeting. The list of questions and answers is attached as Appendix C.

Closing Remarks & Adjourn

Brad Bowness, in closing, stated that he thought this was a very productive first meeting of the Community Liaison Committee and thanked everyone for attending.

The meeting adjourned at approximately 10:00 p.m.

APPENDIX A

Hydro One Community Liaison Committee – Clarington Transformer Station

SUMMARY OF ACTIONS FROM CLC MEETING #1 AND FOLLOW-UP STATUS

#	Action	Follow-up response/action	Status
1	Hydro One will clarify in writing the future plans for Cherrywood TS	Hydro One confirms that Cherrywood TS is a critical station within the Hydro One transmission network and that it will remain in service after Clarington TS is built.	Complete.
2	Hydro One to provide de a copy of the Stormwater Management Plan to the Municipality of Clarington and to the Community Liaison Committee. Once the Municipality and the Central Lake Ontario Conservation Authority (CLOCA) have reviewed and commented on the Stormwater Management Plan, Hydro One will provide the final drawings to the CLC and to CLOCA technical staff.		Complete. With the Municipality of Clarington staff for approval.
3	<i>Hydro One will provide the Baseline Conditions Report (water testing data) prior to station construction.</i>		Pending. Target release of Baseline Conditions Report in late fall 2014.
4	Hydro One will look into opportunities for habitat restoration during construction of the station.		Pending.

#	Action	Follow-up response/action	Status
5	Hydro One will contact the City of Oshawa's engineering department to review the access road design and Stormwater Management Plan.	Hydro One and the Municipality of Clarington discussed this issue following the CLC meeting. It was determined that the Municipality of Clarington has the lead role in communicating with the City of Oshawa, because of the boundary road agreement between Oshawa and Clarington. Issues related to this portion of Townline Road and potential impacts from runoff on the road or on the Harmony Creek watershed will be reviewed with CLOCA.	Pending.
6	Hydro One will confirm what data Stantec has collected to-date for the Monitoring Program, particularly what they have for December 2013, and report back to the CLC.	Stantec's hydrogeologist has confirmed that the Baseline Conditions Report (scheduled to be issued in late October/early November), will include fall 2014 data. Data will be collected late September/early October 2014 to avoid frozen conditions. The Baseline Conditions Report will therefore have data from late fall 2013 to fall 2014.	Completed.
7	Hydro One will move forward quickly to convene a workshop at which all parties will agree on objective selection criteria for the hiring by the Municipality of Clarington of an independent third-party technical expert to be funded by Hydro One. This expert will serve as a resource to residents and the municipality in reviewing and interpreting data and the results of Hydro One's Monitoring Program.	Hydro One has set July 16, 2014 as the date for the first workshop and has engaged an independent facilitator to run the workshop. Workshop invitations were sent on July 4, 2014 to those individuals who indicated responded to Hydro One's invitation to participate.	Completed.

#	Action	Follow-up response/action	Status
8	Hydro One will share the results of the Monitoring Program including water quality analysis with the CLC in the form of regular progress reports.		Pending. November 2014
9	The Emergency Response Plan for Clarington TS, as per the Minister's conditions, will be posted to Hydro One's website when it is complete.		Pending.
10	Stantec will develop a Well Mitigation Plan which will determine the necessary course(s) of action in the event that residential water wells are affected by Clarington TS.		Pending. The Well Mitigation Plan will be presented at the next meeting of the CLC along with the Baseline Conditions Report.
11	Hydro One will consider the suggestion that individual landowners be allowed to sample their own wells and share that information with Hydro One and Stantec.	Intermittent well water sampling is well owner's responsibility. However, if water quality issues become apparent, residents are asked to share their concerns with designated Hydro One and Stantec. Although residential well water quality samples are being taken seasonally, it's important to note that well water quantity will be measured on an hourly basis via pressure transducers installed by Stantec. Although this data will be downloaded and analyzed on a seasonal basis, data will be obtained continuously for the duration of the monitoring program.	Pending. Hydro One to provide contact information where residents may share their well water data.

#	Action	Follow-up response/action	Status
12	Hydro One will consider the EEA's request to expand the radius for the monitoring of private landowner wells and will provide a response within one week.	Hydro One advised June 12, 2014 that it will expand the well monitoring program to include residential water wells within 1,200m of Clarington TS.	Complete.
13	Hydro One will consider the EEA's request to extend the well Monitoring Program beyond 2 years post-construction.	<p>The Groundwater and Surface Water Monitoring Program will be adaptive, and changes may be implemented by Hydro One on the advice of its expert consultant hydrogeologist based on interpretations of the data collected for the Baseline Conditions Report. Any changes will be subject to the approval of the MOE Central Region.</p> <p>Such changes may include extending the Monitoring Program or changing the sampling schedule; for example, if the subsurface conditions are confirmed to be as dense and impermeable as expected based on previous research and field studies, then it may be deemed appropriate to change the post-construction monitoring schedule from seasonally over two years to annually or semi-annually over a longer time period.</p>	Pending.

#	Action	Follow-up response/action	Status
14	Hydro One will send a letter regarding the private well monitoring program within one to two weeks. Follow-up contact will be conducted by Stantec and Hydro One to ensure that all wells have been identified.	<p>During the week of June 16, Stantec and Hydro One staff went door-to-door to potentially eligible residents to deliver and introductory letter about the program, explain the monitoring program, answer questions, and obtain signed consent from well-owners who wish to participate in the program.</p> <p>Additional contact (letters, phone calls) was attempted to reach well-owners who could not be reached during the door-to-door follow-up.</p>	Complete.
15	Hydro One will take into consideration the EEA's request that meeting proceeding be recorded.	<p>Hydro One's primary concern regarding recording of meetings was with respect to media that might attend. Hydro One believes that CLC meeting notes should reflect themes of discussion, items of agreement or disagreement, and should record and assign action items. Hydro One does not wish to produce meeting transcripts, nor does it believe that Committee participants wish to review notes with this level of detail.</p> <p>This being said, given Hydro One's experience with the facilitator's note-taking at the first meeting of the CLC, Hydro One concurs with the EEA, and will arrange for the dialogue (audio) of future CLC meetings to be recorded. This should facilitate the preparation of the draft notes of meeting.</p>	Complete.

#	Action	Follow-up response/action	Status
16	Hydro One will schedule time at the beginning of the next CLC agenda for participants to nominate and select a Committee co-chair who represents one of the participating organizations.	same	Pending.
17	Hydro One will provide a written response to the CLC to confirm that the transformer containment system will not be submerged or immersed in water.	The station will have an extensive drainage system approved by the MOE through the Environmental Certificate of Approval process. The transformer containment system will not be submerged or immersed in water.	Complete.

Appendix B

Statement read by a member of the EEA.

“Mediator,

We are being asked to trust Hydro One. We have been presented with lies and misrepresentative data and been subjected to back door meetings by Hydro with the MOE and the true data and information was not given to Minister Bradley who is responsible for this mess.

Section 41 of the Oak Ridges Moraine Conservation Plan is being violated. We reported and documented springs on the property and Stantec also reported springs on the property. Warren Coulter of CLOCA and also Mr. Doug Magee of Hydro One reported no springs on the property.

The Environmental Assessment Act is being violated. It states that no newly purchased property can be added to an existing EA. The EA was submitted in November 2012, and Hydro One purchased an additional three acres in 2014 to use in the road access. This property had previously been rejected by Hydro due to a high water table. To try to justify attaching this to the existing EA, Hydro has used the word “contemplate” in we contemplated buying this property, but they did not do it until 2014. This is two year after the EA was submitted. This is a clear violation of the rules and regulations of the EA Act. No private individual in Ontario would be allowed to use that approach.

The soil on this location is being classed by Stantec as Newmarket Till, which is an aquitard. I observed the bore holes being drilled and the soil was grey in colour and very salty fine sand with some pebbles. Davies and Holyish call the Oak Ridges Moraine Till or sediment. They also state that at the shallowest point on the Moraine which is the Rice Lake Wedge, the Newmarket Till is not encountered until 10+ metres (60+ feet). Stantec in their report on page 2.4 under section 2.3.3 state that the bore hole logs showed sandy silt till as the dominant stratigraphic unit across the project area.

Mr. Magee of Hydro One is reporting that the water table is approximately 15 metres below the surface, per drawings on pages 39 & 40 in the 2012 ESR, whereas the EXP report dated November 2012 under section 5 shows the stabilized water table to be 1.83 metres below the surface. The cut required to level the land is reported to be 7 metres. This is going to put the cut significantly below the water table and billions of litres of water are going to be pumped into the harmony creek. In other words, Hydro is going to try to dewater the site. Harmony Creek will not be able to handle that volume of water and is going to create a serious situation for Clarington as well as Oshawa. Common sense tells me that this will have to be a continuous pumping situation as this shallow water table according to well records runs for quite some distance. This volume of pumping could very well cause the headwaters for the Farewell creek to dry up. This is also going to affect several wells in our area. This could create a situation for Hydro since theoretically the Transformer containment system will be immersed in water and the reservoir could be totally immersed in water. Everyone knows that the water deteriorates concrete and frost will freeze the water and eventually crack the concrete negating any protection supplied by this system.

Hydro One’s own documents identify that all of the Transformer sites are polluted with lead, mercury and cadmium and toxic oil. These contaminants are both on the Hydro property and outside of the Hydro property. Obviously their containment systems have not worked. Stantec reports on page 2.5 section 2.3.4 that there is a vertical stratification within the project area which indicates seepage areas or springs and also a downward gradient which indicates that this is an aquifer recharge area. This downward gradient will give the contaminants a highway to the water table. How many parts per million of these contaminants will it take to affect a child or even a baby who ingest this water?”

Appendix C

Questions submitted in advance of CLC meeting #1 by a representative of the EEA who was unable to attend the meeting, and Hydro One responses.

Q: How can Hydro One proceed with the recent 3 acre purchase to use for road access and not be required to conduct an EA on this property as per the Ministry requirements especially knowing that this exact property was rejected by Hydro One at an earlier time?

A: The purchase of approximately 1.1 ha of land to accommodate the station access road was discussed during the EA process (first public meeting) for Clarington TS, and is documented in Section 4.7.5 of the Environmental Study Report (ESR). While the property closed in 2014, Hydro One negotiated the option on the property during the Class EA process.

This parcel of property falls within the study area for the Clarington TS project as defined in the ESR, and is suitable for its intended use in housing the future permanent access road to Clarington TS.

Q: Given Hydro One will be pumping millions of litres from the Oak Ridges Moraine and we have a shallow well, how and when will we be compensated when our well runs dry, which is inevitable. Will there be baseline testing conducted by Hydro One? Will we be required to prove that Hydro One has caused our well to run dry?

A: Hydro One does not expect that the Clarington TS project will require the dewatering or removal of large volumes of groundwater. If it becomes apparent that groundwater dewatering will occur at a rate of 50,000 L/day or greater, Hydro One will obtain a Permit to Take Water from the Ministry of the Environment.

Hydro One's environmental consultant is currently drafting a Well Mitigation Plan which will outline the steps that will be taken if well water issues are identified during the Residential Water Well Monitoring Program and are confirmed to be a result of the Clarington TS. If well water issues are identified, Hydro One and its environmental consultant will work with the well owner to determine whether the issue is a result of Clarington TS.

Q: Given Hydro One's Land Assessment and Remediation report and the history of contamination associated with transformer stations, we cannot trust any contamination system especially the proposed system which is dangerously close to the main aquifer and, in some cases, crosses the main aquifer. What do we tell our children since they are becoming increasingly alarmed about the

situation? Why does Hydro One continue to ignore the concerns of the residents, logic and science?

A: The Land Assessment and Remediation (LAR) program is a voluntary initiative undertaken by Hydro One to address historical contamination on its properties. In many cases, the contamination was not the result of Hydro One activities, but from previous land uses or migration of contaminants onto Hydro One properties. In cases where the source of the contamination was from activities undertaken by Hydro One/Ontario Hydro, it was the result of past practices, or at sites which predated the widespread use of spill containment systems and oil-water separators such as those designed for Clarington TS.

The spill containment system, oil-water separators, grading or tower foundations of Clarington TS will not approach the deep Thorncliffe Aquifer. The Thorncliffe aquifer in the Clarington TS area is located beneath approximately 50 to 100 m of Newmarket Till, which is an aquitard. The deepest tower footing foundations will be approximately 11 m below the ground surface, while the spill containment pits will be approximately 5m below ground surface at their deepest points.

Q: Randy Church publicly stated that "they don't think the water will become contaminated but if it does, they will drill us another well". How can this possibly resolve the catastrophe? He also publicly stated that the groundwater contamination "will not kill us but might make us very sick". Who in their right mind makes a public statement like this and why is there no public accountability?

A: At the Committee meeting, residents expressed an interest in having Stantec's private well monitoring program expanded from property owners adjacent to the site to a larger study area. We are pleased to advise you that Hydro One has accepted this request and will be offering the program to interested residents within an approximate 1,200 metre radius of the station perimeter boundary. Specific program information and details for participation was hand delivered to all community members within the designated area.

Mineral Insulating Oil (MIO) is commonly used in electrical equipment throughout the province to regulate temperatures and can be found in higher voltage transformers and pole top transformers such as the ones found on distribution poles outside of homes and businesses. It is a petroleum hydrocarbon that is in the same category of mineral oil products, such as oils used directly in food, food packaging and processing, cosmetics, and pharmaceuticals. Although the material is non-toxic, as outlined in the Material Safety Data Sheet, like any foreign substance, it is not recommended for ingestion or inhalation as it may cause irritation and/or irregularities such as abdominal discomfort.

Hydro One conducts regular maintenance at the station to ensure the safe operation of all equipment and will also monitor the station remotely from our provincial grid control centre on a 24-7 basis. If an alarm goes off, a crew is dispatched immediately to investigate. The spill containment units that will be used at Clarington TS are designed to contain 1.3 times the amount of oil that is actually contained in the transformer. In the rare event of an oil discharge, meaning a loss of oil outside of these systems, Hydro One has a Ministry of Environment approved emergency spill containment procedure.

Hydro One is committed to ensuring the environment remains protected throughout the construction and operation of Clarington TS and this includes taking every measure to prevent mineral oil from entering into wells, waterways and sewers regardless of its lack of toxicity.

- Q:** This is an unmanned site and the emergency plan Hydro has in place states an emergency response team will not be initiated until Step 4! How can the residents possibly feel confident with this situation?
- A:** Hydro One is currently producing an Emergency Response Plan (ERP) for Clarington TS which will specify the procedures to be followed in the highly unlikely event of a release of mineral insulating oil from the station. Upon completion, Hydro One will post the ERP for Clarington TS on its web page in accordance with Condition 4 of the Minister of the Environment's decision.