

FINAL
O.S.P.E. LAND DRAINAGE COMMITTEE
MINUTES OF MEETING
Friday June 14, 2013
O.M.A.F.R.A. Building, 1 Stone Road West, Room 403
Guelph, Ontario

1.0 Attendance and Call to Order

- 1.1 Members Present: Bill Dietrich, Chairman; Gerard Rood, Secretary; Tim Oliver; Tom Pridham; John Kuntze; Tony Peralta
- 1.2 Liaison Members Present: Sid Vander Veen, O.M.A.F. (Ontario Ministry of Agriculture and Food); Davin Heinbuck, Conservation Authorities (Ausable Bayfield Conservation Authority); Lee Weissling, O.S.P.E. (Ontario Society of Professional Engineers) (phoned in); Tom Hoggarth, D.F.O. (Department of Fisheries and Oceans Canada) (phoned in); Art Groenveld, M.T.O. (Ministry of Transportation Ontario); Pat Shaver, Office of Open Learning, University of Guelph
- 1.3 Absent Members: Jeremy Downe, M.N.R. (Ministry of Natural Resources)
- 1.4 Chairman Bill Dietrich called the meeting to order at 10:10 a.m.

2.0 Approval of Agenda

- 2.1 John Kuntze asked that the Norfolk County submission be added to the agenda for discussion. Motion by John Kuntze, seconded by Tom Pridham, that the amended agenda to include the Norfolk County submission under new business and otherwise as prepared by the Chairman be accepted. Carried

3.0 Minutes of Last Meeting

- 3.1 John Kuntze asked about Item 3.1 of the minutes of the January 24, 2013 L.D.C. meeting. Sid Vander Veen has not heard further from Woolwich Township and advised that the Clerk seemed satisfied with the verbal response that he made. Based on same there will be no further research or survey on this matter.
- 3.2 John Kuntze noted that there appear to be more challenges with municipal staff and the Drainage Act. Sid Vander Veen commented that there are more people coming out to the courses offered by O.M.A.F.R.A. Engineers and Municipal staff still have to work with the Councils. John sometimes provides copies of case law to Council to assist with moving a project ahead.
- 3.3 There was discussion of what has happened to the Fisheries Act. Bill Dietrich said that Tom Hoggarth had emailed him and can call in for the meeting today. John Kuntze said that he had a project for a drain enclosure where D.F.O. provided no input, not even a letter of advice. Davin Heinbuck has experienced D.F.O. using triage methods to control risk management. Sid Vander Veen thinks that the C.A.'s (Conservation Authorities) may still be providing input and controls on projects. John suggested that some C.A.'s may be drifting into fish habitat.

- 3.4 Sid advised the members that O.S.P.E. was looking to call in to the meeting. Bill Dietrich said that Lee Weissling of O.S.P.E. has been in touch. Sid will email Lee and ask him to call in at 11:00 and email Tom Hoggarth to call in at 11:30.
- 3.5 Bill Dietrich said that the Norfolk document would be included in new business at the end of the agenda. There will also be discussions on the training course for engineers. It was noted that the training session will be at the O.M.A.F.R.A. building this year.
- 3.6 Motion by John Kuntze, seconded by Tony Peralta that the draft minutes of the January 24, 2013 Drainage Practitioners meeting be finalized. Carried.
- 3.7 Final documents are to be sent to Pat Shaver by Gerard Rood for posting to the L.D.C. web site.

4.0 Business Arising From the Minutes

- 4.1 Sid Vander Veen stated that he would provide an update on the Guidelines in his liaison report.
- 4.2 Tim Oliver advised the Committee members that D.F.O. will be providing more information on the Fisheries Act update in the June/July issue of Canadian Consulting Engineer. Bill Dietrich recalled that Tom Hoggarth had mentioned that the bait industry could be included in commercial fishing. Tim suggested that a tributary drain could be restricted if it affects a sensitive area downstream. He noted that they had approval denied for a drainage project for enclosing a short length of a pump outlet open drain.
- 4.3 John Kuntze asked if there had been any further information on the liaison with O.S.P.E. Bill Dietrich said that there was no new information since the last meeting but he expects that there will be an update during the meeting today. All Committee members agreed that they were in favour of a continued affiliation.
- 4.4 Sid Vander Veen understands that Paul McIntyre may be getting a limited license to practice drainage engineering. This may entail resolving concerns through P.E.O. (Professional Engineers Ontario) and O.S.P.E. Tom Pridham said that this would likely be a P.E.O. matter. Sid believes that it is good that more people can get into drainage engineering.

5.0 Correspondence

- 5.1 Gerard Rood reviewed the correspondence that had been received since the last meeting. On February 19th, 2013 Bill Dietrich circulated an email from Mark Dietrich of O.S.P.E. to all Committee members indicating that O.S.P.E. was in favour of solidifying the relationship with the L.D.C. and Bill replied that this would be considered at the next L.D.C. meeting.
- 5.2 An email from Pat Shaver on March 28, 2013 requested information on travel distance so that the University could make payment of some expenses for the Committee. Pat emailed out expense forms on April 2nd, 2013 for completion and submission by eligible members.

- 5.3 On April 8, 2013 Gerard Rood received a letter dated March 17, 2013 from Brett Ruck, Founder - DIG (Drainage Investment Group) Corporation along with an information attachment. This was circulated to all Committee members. On April 16, 2013 John Kuntze advised the Committee that he would attend the scheduled DIG meeting as representative for the Committee.
- 5.4 An April 16, 2013 email from Tim Oliver regarding the “Fisheries Act” and “Canadian Environmental Assessment Act” was received and circulated to all Committee members.

6.0 Liaison Report – OSPE - Lee Weissling

- 6.1 Lee Weissling called into the meeting at approximately 10:55. He advised that an email had been sent out a few minutes ago to Bill Dietrich. Bill will share this with the Committee later. Lee advised that they are working on sharing ideas. It is intended that a formal proposal be established and taken to the O.S.P.E. Board for establishing a closer affiliation.
- 6.2 Lee stated that it appears that the L.D.C. has been functioning well. Their idea is that the L.D.C. remain as a semi-autonomous group. Most other O.S.P.E. committees are more attached to staff people. The idea is that the L.D.C. be left more independent and that it be established more formally as a technical society or affiliation.
- 6.3 O.S.P.E. would help promote events, use of the logo and advertising. The relationship would not be as hands-on with staff as the other committees. O.S.P.E. would like the details of the relationship worked out in the next month or two. Lee would work with Bill Dietrich of the L.D.C. and Mark Dietrich and Kristian Kennedy of O.S.P.E.
- 6.4 Bill Dietrich told Lee that O.S.P.E. and L.D.C. appear to be on the same page. It is expected that O.S.P.E. will draft the terms of reference. Lee expects that the details can be finalized through additional teleconferences that will help to get the wording right. They will clarify what O.S.P.E. has to offer and that the L.D.C. is a very specific committee somewhat related to environment. The O.S.P.E. Board has to be clear on the affiliation in order for this to proceed.
- 6.5 John Kuntze noted that there had been a long time involvement with P.E.O. and he believes that just the details are needed to finalize an affiliation with O.S.P.E. that looks positive from all sides. He is in favour of Bill Dietrich moving forward for the L.D.C. on this matter.
- 6.6 Lee Weissling said that Mark Dietrich would like to know the annual Drainage Conference attendance. Bill told him that 100-120 people typically attend the Conference in recent years. Lee suggested that Mark could do a greeting from O.S.P.E. Sid Vander Veen suggested that O.S.P.E. may want to set up a booth like some of the vendors that attend the conference. Sid confirmed that the Conference location is always in Guelph. Lee will have Kristian Kennedy set up the logistics and will move ahead on something solid.
- 6.7 Bill Dietrich told Lee that Mark Dietrich and Kristian Kennedy can contact him and he will keep the Committee advised of any new developments. Lee will check with Mark on this. The conference call was terminated approximately 11:10.

6.8 Tim Oliver suggested that the Conference could get bigger with O.S.P.E. promotion. John Kuntze noted that the Committee objective is to promote land drainage to engineers. There appears to be room for a positive exchange and O.S.P.E. could contribute through their involvement and setup of a booth at the Conference.

7.0 Liaison Report – Ministry of Natural Resources - Jeremy Downe

7.1 Bill Dietrich advised the L.D.C. that no report was provided by M.N.R.

8.0 Liaison Report – Ministry of Transportation Ontario - Art Groenveld

8.1 Art reported that the I.D.F. (Intensity, Duration, Frequency) Curve Tool is being updated. It will have an easier mapping component and will include up to 2007 A.E.S. (Atmospheric Environment Service) data. Old data will be archived. New 2007 data shows a 5% rain increase province wide and a 30% increase in the Ottawa area. M.T.O. is also getting some data from adjacent provinces and states to improve the calculated values along the perimeter of the province.

8.2 M.T.O. is also working on a topographic plan overlay. Confidence levels of the data have been improved and it is possible to divide up watersheds if needed for an analysis. A.E.S. has not updated their data to 2012 at this time. M.T.O. will update their software tool when the new data becomes available. Sid Vander Veen stated that he would like to see the impact of the more recent intense storms on the overall data.

8.3 Art told the Committee that they are doing a report on climate change and the impact on roads. They are finding that their sewers and ditches can store and handle most changes. Some bridges and culverts may be restrictive, but these are generally the older ones that could be due for replacement soon.

8.4 Projects on Highway 401 and Highway 6 are looking at different types of liners for their drains to help reduce salt infiltration into ground water. They are still working on how to treat discharges and hope to reduce the impact on water wells.

8.5 They are updating gravity pipe guidelines and expect to complete this by month end. There are also material service life updates. H.D.P.E. (High Density Poly Ethylene) and P.V.C. (Poly Vinyl Chloride) materials will go to a 75 year life expectancy. There is little change in concrete pipe. The aluminum alloy pipe being promoted by Atlantic Industries is looking good. Polypropylene materials are also being investigated.

8.6 Another H.D.P.E. product is coming from the “Snap-tite” company. M.T.O. has done some oval liners on Highway 40 south of Sarnia and is working with both circular and oval liners for rehabilitation projects. The installations are very fast and efficient and are looking good so far. The product is suitable for standard burial applications.

8.7 M.T.O. is working on their 3rd generation of maintenance procedures. These are being introduced to their staff and contractors with 11 training sessions provided to date. This

includes maintenance inspection ratings. For a 30% rating, relining may be an option. For less than 20% rating, replacement is required. Their new contractors have to do an inventory of all culverts in their area. Maintenance inspections are then carried out every 5 years on old culverts and bridges and every 10 years on new structures. By 2015 M.T.O. expects to have a complete inventory of all culverts that may comprise 50,000-55,000 culverts in the highway inventory.

- 8.8 In regards to the Drainage Act, they have developed a course for their staff and have conducted 3 training courses. Staff is more in tune with what is going on when they see drainage reports. Since M.T.O. does permits for all work in their right-of-way, staff now understands the importance of prompt action on work related to drainage reports. They have also been promoting to staff how to use the Drainage Act for their drainage needs. The response from their staff on the Drainage Act and training has been good.
- 8.9 Their culvert design software package will be good to go with some final tweaking. They are working on how to distribute the software and there may be a link provided on their web site to a separate server for downloads. The software points out the material's service life, backfill limits, etc. There is output available to a spreadsheet and you will be able to extract the information that you need for your project. There are 5 regions included that are selected from a drop down menu or can be typed in directly. The software is very flexible for inputs. They have done some seminars in the past to show consultants the methodology. Art expects that the software could also be presented to Municipal staff through seminars or a Fact Sheet could be developed. They also have Guidelines for hydraulics and hydrology that can stimulate alternatives.
- 8.10 The M.T.O. is doing different types of contracts and is working towards performance specifications especially for culverts that are less than 3 metres in diameter.
- 8.11 John Kuntze noted that the L.D.C. had suggested that Art do a presentation at the Conference. Art stated that he was willing to do this. Art advised John that he hasn't heard from Ken Smart on the Guidelines update. John said that he would alert Ken to the M.T.O. information that is available. Bill Dietrich agreed that a presentation at the Conference would be well received. Art provided their web site address for those interested: www.mto.gov.on.ca.
- 8.12 Art advised that he can do a presentation on the curve tool. Sid Vander Veen believes that it would help if people understand what it does and how it works.
- 8.13 Art stated that their drainage course highlights that M.T.O. is another landowner under the Drainage Act. Sid noted that this relates to "interface of infrastructure" and it appears that M.T.O. is recognizing the bigger communal aspect of drainage as it relates to the Drainage Act.
- 8.14 Art continued that they are doing a study looking at rehabilitation methods including lining methods and other procedures.
- 8.15 Their Drainage Act training promoted to staff that they don't have to deal with all landowners and they will suggest more use of the Drainage Act to resolve some of the longstanding

drainage complaints. Sid asked if M.T.O. would be taking more action under the Act and Art said that they will start to look at some problems as another landowner and may petition for work.

- 8.16 Bill Dietrich told Art that they appreciate seeing more M.T.O. staff at drainage meetings and asked if there was a list of contacts at M.T.O. that could be notified. Art advised that it is difficult to establish who should be contacted as there are 20-30 people for each area and there is a relatively large changeover of staff.
- 8.17 Tim Oliver stated that he has experience where M.T.O. submits a petition rather than a notice under Section 78 of the Drainage Act. Art advised that they will continue to do updates with their staff. Several staff members have attended the Drainage Superintendents course in the past.
- 8.18 Sid asked Art if he might be available for the training session that is being held the day before the Conference. Tim noted that the date of the Conference is October 18th this year. Art said that they should be available to help present for the training session in relation to other legislation that impacts work under the Drainage Act.

9.0 Liaison Report – Conservation Authorities Report - Davin Heinbuck

- 9.1 Davin advised that the D.A.R.T. (Drainage Act Regulations Team) protocol is going to many of the conservation authorities Board of Directors for ratification.
- 9.2 Conservation Ontario has set up a task force that is meeting with D.F.O. regarding the agreements. A survey has been done and they will review with D.F.O. for possible continuing partnerships. One of the matters to be addressed is who will issue the letter of advice.
- 9.3 Southwestern C.A.'s have discussed the impacts of enclosures. More enclosures are being done on both drains and other watercourses. They want to establish how to deal with the impacts of enclosures. They have relied on D.F.O. in the past but are now investigating the matter themselves.
- 9.4 Key concerns with enclosures are being reviewed. They are looking for a consistent approach from each C.A. The Ausable-Bayfield Conservation Authority is initiating permits for enclosures.
- 9.5 There are concerns about the flood impacts, erosion and effect on flood lines. They are looking more at hydraulics with fisheries concerns still included.

10.0 Liaison Report – Fisheries and Oceans Canada - Thomas Hoggarth

- 10.1 Tom Hoggarth called in at 11:27. Bill Dietrich told him that the Committee would like an update on the Fisheries Act. Tom replied that there was a lot going on. There were

- amendments June 29, 2012 and December 14, 2012. The “serious harm” provision was to come into effect on July 1, 2013 but may be delayed until fall.
- 10.2 A policy direction is to be put in place to help understand how to apply the revised legislation. At this time the Fisheries Act is still being managed as in the past. Authorizations and class authorizations are still in place and they continue to work with C.A.’s
 - 10.3 Budgets have impacted the Habitat program. They have dropped from 8 offices to 1 office in Ontario. Staff has been reduced from 110 to 22. All staff members are moving to the Burlington office by September.
 - 10.4 Things will be done differently in the future. All inquiries will go to a general “800” number or a general email address. These are to be checked daily and assigned to a staff person. There will be service standards for prompt responses to be issued. Existing files will be continued with the existing biologist. New requests will go through the general phone number and email.
 - 10.5 The old Act had Section 32 with prohibitions for killing fish and Section 35 dealt with H.A.D.D. (Harmful Alteration, Disturbance or Destruction). The new Act has a single Section 35 that will allow serious harm only if authorized. Serious harm would be death of fish or permanent alteration of habitat. Controls will depend on the species impacted and the numbers of fish. Permanent alteration will be based on biological scale and terms. Destruction will be interpreted much the same as before. They are working on getting definitions out.
 - 10.6 There was a discussion on minnows and ditches. The revised legislation applies to fish that support recreational, commercial or aboriginal fisheries. Commercial businesses require a license. Commercial bait fish could cover most minnows. Streams with just minnows will be controlled but they need to be linked to a commercial or aboriginal fishery.
 - 10.7 The legislation will not apply to SWM (storm water management) ponds because these are not considered recreational, commercial or aboriginal. As another example, Hudson Bay lowland ponds may not be impacted if they are not directly connected to a fishery.
 - 10.8 The intent is to create streamlining through new regulations under the Act. For example there could be “named work” regulations. If the drain is a certain class and the work is done a certain way, the project would be authorized. This will likely have to be reviewed on a yearly basis. There is currently no timeline for developing regulations.
 - 10.9 Bill Dietrich commented that if the process is still the same, they would be contacting the local C.A. He asked if the C.A. and D.F.O. would still be acting the same. Tom responded that he did not know if it would be the same. Existing agreements were created under the old Act. He confirmed that it should be business as usual for now. Since there are fewer biologists, there may be more struggles.
 - 10.10 Tom noted that D.F.O. is sitting with Conservation Ontario and looking at amending agreements. They are trying for a one window application. D.F.O. may not be able to fulfill the old agreements. There may be some C.A.’s that pull out. They are looking for something to be in place by the time the new Act comes into force.

- 10.11 John Kuntze asked about clarification on the new “800” and email approach. Would D.F.O. want to be notified of all projects? Tom suggested that there may be 2 potential ways to proceed. Upon the Act coming into force, if there is no agreement with the C.A., the applicant should send the Maintenance Notification Form directly to them. The service standard is 10 day return. They hope to still be working with some C.A.’s. For drain maintenance projects, no change in timeline is expected. Site specific reviews could be longer to complete. There will be a “triage unit” dedicated to that type of file. The response time could be faster than before due to there being a dedicated group for every file in Ontario. There will not be any unmentored staff involved.
- 10.12 John asked if there would still be a risk management matrix in use. Tom expects that they will continue to use the check for a likelihood of a H.A.D.D. It will still be a risk based assessment in the future.
- 10.13 Sid Vander Veen asked about Tom’s position. He responded that he will be team leader partner liaison standards and guidelines. He will be working on creating streamlining tools. He will be assisted by Jen Thomas, Brent Volard, Dave Gibson and others.
- 10.14 Sid asked if the 22 D.F.O. staff was the total number. Tom said that there will be 22 for fisheries protection plus 5 fisheries officers plus science staff.
- 10.15 Davin Heinbuck spoke about the Agreements and mentioned that they are trying to sell to their Board that they can do the triage on applications to assist in reducing the risk.
- 10.16 Tom went on to explain that they are reducing staff since they no longer need to consult with the industry. Reviews will be proponent driven. Two regulations will come into force with the new Act. The first is the timing standards for D.F.O. and how long they have to review an application. The second is an information regulation that sets out what to submit before the proponent goes to D.F.O. He is confident that all issues are surmountable.
- 10.17 Sid asked if Tom or Jen Thomas would be available for the engineers training course on October 17. Tom said that either he or Jen would be available and they hope that the new Act and Agreements will be in place by then.
- 10.18 The conference call was terminated at 12:00.

11.0 Liaison Report – Ministry of Agriculture and Food - Sid Vander Veen

- 11.1 Sid stated that the tile drainage work is the highest since 1976 with 182 million feet of tile installed last year. He noted that the extent of tiling may have an impact on drainage works.
- 11.2 The Drainage Superintendents course had 30 attendees. Three Municipal courses were provided with pretty good attendance numbers at each.
- 11.3 Ken Smart and Kay Palmer are continuing to work on the Design and Construction Guidelines. Sid and Tim Brook of O.M.A.F. are reviewing draft chapters as they are prepared. They expect to have a complete draft by year end.

- 11.4 L.I.C.O. (Land Improvement Contractors of Ontario) is setting up a tour of the Holland Marsh drainage project for early July. Cost is \$40.00 per person. The contact person is Frank Kains at 519-742-4591 or Kains@golden.net.
- 11.5 D.S.A.O. (Drainage Superintendents Association of Ontario) is updating the Drainage Superintendents Guide.
- 11.6 D.F.O. is still involved with mapping and drain classification.
- 11.7 There have been changes to the Endangered Species Act.
- 11.8 Ontario One Call has been updated with the Ontario Underground Infrastructure Notification Act. Everyone with underground works has to register with Ontario One Call. This may include tile drains and Municipal drains that cross public right-of-ways. There is a possibility that agricultural tiles may be dropped from the legislation requirements. There was some discussion of utility locates in general.
- 12.0 D.A.W.G. (Drain Action Working Group) Update - Mike Devos**
- 12.1 No D.A.W.G. meetings have been held in over a year.
- 13.0 D.A.R.T. (Drainage Act Regulations Team) Update - John Kuntze**
- 13.1 John advised the Committee that work is starting on the new drains protocol. Progress is slow but on-going.
- 14.0 Office of Open Learning - University of Guelph - Pat Shaver**
- 14.1 Pat provided copies of the income statement for 2012. She suggested that if there are high numbers of attendees at the training session this year, the honorarium to presenters might be increased from its current amount to \$60.00 or \$80.00 each. This would help to reduce the surplus at year end.
- 14.2 Pat explained the payment of travel expenses for eligible Committee members. These were calculated for the June and October meetings last year from the members' homes to Guelph.
- 14.3 The current balance in the account will sit until next year to offset any potential loss in the future.
- 14.4 After the October meeting, we should be able to establish available money for expenses. She confirmed that the honorarium is only for the trainers at the Thursday session and not for the presenters at the Drainage Conference. She suggested that meals could be added to the expenses but there is no coverage for alcohol. An invoice or receipt for meal expenses has to be submitted to Pat to arrange for payment. Pat will have expense forms ready for signing at the Drainage Conference to expedite processing.

- 14.5 Pat advised that she has a database of those who have attended training sessions and conferences should the Committee wish to review same.
- 14.6 John Kuntze stated that he was in favour of paying more expenses for meals and mileage if there are funds available. Pat suggested that the Shakespeare Restaurant supper booked for the Committee could be reimbursed. Bill Dietrich will look into covering the cost for the meals and submitting the receipt to Pat for reimbursement.
- 14.7 It was discussed that fees for the training session and conference should remain the same. The Thursday training will be conducted in the O.M.A.F. building and the Friday Conference will be at the Holiday Inn. There will be a cost saving of approximately \$500.00 if there is no charge from O.M.A.F. for the room on Thursday. Sid advised that he would check the room booking and he believes that there will not be a charge. Pat noted that a room is needed in the morning for the L.D.C. meeting and a room in the afternoon for the training course. It was recommended that the Drainage Practitioners meeting be held at the Holiday Inn on Thursday night as in the past for the convenience of the attendees.
- 14.8 Sid confirmed that O.M.A.F. Room 403 was booked for the L.D.C. on Thursday October 17th from 9:00 to 1:30 and the conference room downstairs was booked from 11:30 to 6:00 p.m. for the training session.
- 14.9 Pat noted that there are 7 speakers required for the conference on Friday. She suggested that some time can be saved by minimizing the biography introduction that is already included on the flyer. She can provide tips on “PPS” presentations to help make them better for the audience. She noted that each person is responsible for their own handouts. The evaluation form comments from the last conference were reviewed.
- 14.10 Sid advised that the 3rd training session details and speakers have to be confirmed by him.
- 14.11 Bill Dietrich asked for suggestions for the conference speakers and noted that Item 14.7 of the last meeting had mentioned erosion and sediment control. John Kuntze understands that there is training to be a certified specialist and D.F.O. uses a specialist for training staff. Tom Pridham suggested that Harry Reinders might be a good presenter for “effective sediment control”. Sid would like to see Harry discuss prevention as well as impacts and controls during construction. Tom Pridham will contact Harry about doing a 40 minute presentation on effective construction techniques.
- 14.12 Art Groenveld mentioned that M.T.O. had recently gone through a training program called “emotional intelligence” presented by Kristine Clark and this might be suitable for the conference. The presentation relates to controlling your emotions and training yourself to respond better in emotional situations. Art will make contact with Kristine and advise Pat Shaver.
- 14.13 Bill asked if Art would do a presentation. Art agreed to present on their software tools and I.D.F. curves.

- 14.14 Sid Vander Veen had 2 suggestions for a case study that would involve Ken Smart. The first suggestion was drainage in other jurisdictions. The second was the Garden Avenue Drain in Brantford which dealt with the City, First Nations and Heritage concerns. John Kuntze suggested that Ken could team up with Chris Cummings and others for a presentation and he will talk to Ken and advise Pat.
- 14.15 Bill Dietrich suggested that he could do the Exeter Diversion as a case study either this year or in the future.
- 14.16 Sid suggested having Brett Ruck and Frank Jonkman talk on DIG (Drainage Investment Group). John Kuntze has attended one meeting with DIG and another one is scheduled shortly. He intends to be on the Board of DIG and could represent the L.D.C. He believes that there will be better support for environmental techniques on drains along with financial support. Sid provided an explanation of how DIG could function. O.M.A.F. is supportive of DIG and sees it as a way to get assistance with difficult environmental projects. DIG would source out funding to offset environmental costs. This would save costs for the affected owners. It could be similar to O.S.C.I.A. (Ontario Soil and Crop Improvement Association) that supports farmers. John suggested that it could be like Ducks Unlimited who collect funds and disburse them to suitable projects. Sid noted that DIG can provide expertise and guidance on difficult projects. Tim Oliver commented that each job requires a project specific analysis. John will contact Brett Ruck.
- 14.17 Tom Pridham suggested having Tom Hoggarth present on the Fisheries Act. There was a concern that the Act might not be fully in place soon enough for the conference.
- 14.18 Art Groenveld suggested a speaker for emerging technologies. John Kuntze suggested that this could include sonar as used in the Holland Marsh, use of drones and ground penetrating radar. Art noted that culverts can now be X-rayed but a single pipe can cost \$5,000.00 with multiple pipe inspections reducing the average cost. John mentioned fibre optic bridge inspection. Art suggested advancement of trenchless technology research that was being carried out by Mark Knight at the University of Waterloo through C.A.T.T. (Centre for Advancement of Trenchless Technology). Tony Peralta suggested Liqui-Force Services from Kingsville who do in-pipe rehabilitation. It was established that Art would contact Mark Knight and advise Pat Shaver if he is available.
- 14.19 Sid suggested having a speaker on phosphorus problems and blue green algae. There are problems with Lake Simcoe and Lake Erie. This could be an emerging issue for drainage. John Kuntze mentioned Henry Beneteau who is associated with Great Lakes Guardians or possibly Jackie LaPorte as an alternative. Sid will investigate getting a speaker.
- 14.20 The order of speakers for the conference was tentatively established as:
- 1) EQ speaker
 - 2) alternate technologies
 - 3) Harry Reinders
 - 4) Garden Avenue case study
 - 5) software tools
 - 6) emerging concerns

7) DIG

14.21 Pat Shaver said that she would send out information sheets on Monday for the speakers that are to be contacted.

15.0 New Business

15.1 Sid Vander Veen reviewed training sessions 1 and 2. He provided a handout for session 3 to be conducted this year. It is expected that the cycle will repeat in 2014.

15.2 Bill Dietrich said that we expect 40 participants this year based on the previous sessions. He believes that the audience will drop for the next cycle. Sid suggested that the sessions could be opened up to more people in the future including drainage superintendents, C.A. staff and others. Bill suggested that the training should only be for drainage engineers. Sid noted that drainage superintendents get a very general introduction to the Drainage Act in their training sessions. There is no real training on doing assessments and training should be there to help superintendents explain to people how the Act functions so that they can support the engineer on the project.

15.3 John Kuntze agreed with Bill that training should be geared to the engineers. He doesn't want to see a 2 day conference. He suggested that if training interest drops, there could be more presentations made during the Conference. He could see training being provided for staff of drainage engineers. Sid asked if invitations should be limited to practicing drainage engineers or any engineer or engineering firm. John sees any engineer or engineering firm as being eligible to attend training.

15.4 Art Groenveld suggested that the D.S.A.O. could set up their own training for the Drainage Act or invite drainage engineers to speak to them.

15.5 John Kuntze reminded the Committee that he would attend the DIG meetings either personally or as a representative for L.D.C. All Committee members were in favor of John representing the L.D.C. at the meetings.

15.6 It was discussed that the Norfolk County submission is primarily a question of grant eligibility. They have to deal with the Ministry and the A.D.I.P. (Agricultural Drainage Infrastructure Program) policies. Bill Dietrich noted that anything greater than a 6 metre span is considered a bridge by M.T.O. and anything less is a culvert. The drainage superintendent should do the work he wants if he believes that it is proper maintenance. It was established that there was nothing that the L.D.C. could do for them. The entire Committee was in favour of John Kuntze writing up a response to Norfolk.

15.7 Sid Vander Veen advised that he has electronic copies of some of the old versions of the Drainage Act. He will send out copies to the Committee members for their use and reference and can provide copies to anyone else that requests them.

16.0 Review of the “Design and Construction Guidelines”

16.1 The Guidelines were discussed in Section 11 above.

17.0 Next Meeting

17.1 The next meeting of the L.D.C. will be 9:00 a.m. Thursday October 17th, 2013 at the O.M.A.F. offices at 1 Stone Road West in Guelph, Room 403 prior to the training session.

18.0 Adjournment

18.1 The meeting was adjourned at approximately 4:15 p.m. Moved by Tom Pridham and seconded by Gerard Rood. Carried

Bill Dietrich, Chairman

Gerard Rood, Secretary