Drainage Engineers Course - The Drainage Act and the Role of the Engineer
October 2017

Session 1 of the Drainage Engineer Training Sessions

Program

Introduction – Sid Vander Veen, P.Eng., Drainage Coordinator, Ministry of Agriculture, Food, and Rural Affairs
- Drainage Act overview with emphasis on the responsibility of the engineer for Reports under Sec. 4, 78, 76, 84, 65 & 40
- Scope and application of the Drainage Act

Engineer’s Role Under the Drainage Act – Sid Vander Veen, P.Eng., Drainage Coordinator, Ministry of Agriculture, Food, and Rural Affairs
- Section 11 – independence of engineer
- Section 8(1) – appointment of engineer
- Section 8(2) – naming of engineer who will have charge of project.
- “Quasi-judicial role of the engineer” – Referee decisions

Project Scoping Meetings – Sid Vander Veen, P.Eng., Drainage Coordinator, Ministry of Agriculture, Food, and Rural Affairs
- When are meetings needed?
- Establish stakeholders to invite – drainage superintendent, C.A. representatives, key landowners, road superintendent, utilities representatives.
- Details to be reviewed.

- Defining area requiring drainage
- Counting signatures – sufficiency of petition
- Examples
- Review of key Referee decisions regarding this subject

Section 78 Work – John Kuntze, P.Eng., K. Smart Associates Limited
- Define work within and outside the scope of Section 78.
- Petition vs. request and other differences

2017 Drainage Engineers Course – LandDrainageEngineers.com
- Information sources – old plans & reports, maps, photos, aerials.
- Establishing the watershed: soil types, slope, land use, land practice;
  environmental concerns, public utilities, private utilities (e.g., tile drainage, wells, waterlines).

- Determining area requiring drainage.
- Format, general problem definition, and suggested solutions.
- Owner interviews & property grant eligibility.

- Purpose of the preliminary report.
- Preliminary report content.
- Engineer’s role at meeting to consider the preliminary report.

Field Work – Mark Hernandez, P.Eng., Dillon Consulting Limited
- Survey, benchmarks, staking, high water marks, soils investigations, existing
  channel features, crossings, private/public utilities.

Content Of Reports – Jeff Dickson, P.Eng., R.J. Burnside & Associates Limited
- Content required by Drainage Act.
- Content required by others (e.g., Tribunal, A.D.I.P., Referee).
- Report format – components.
- Engineer’s role at the meeting to consider final report.

Sufficient Outlet – Jeff Dickson, P.Eng., R.J. Burnside & Associates Limited
- Section 15 of Drainage Act
- Definition
- The engineer’s duties
- When is modelling required?
- What to watch out for
- Past Referee decisions