APPENDIX G Richmond Landfill Hydrogeologic Investigations Bibliography

Part A) Hydrogeologic Investigations (other than annual monitoring reports – see next section)

Reports in bold font marked significant advances in site hydrogeological knowledge

- 1. Canadian Waste Services Inc. (CWS), 2000: 2000 Richmond Landfill Site Surface Water Quality Monitoring Interim Report.
- 2. Ministry of the Environment (MOE), 1977: A preliminary hydrogeologic study testing six Handaugered test holes.
- 3. MOE, 1979: A preliminary study examining leachate impacts upon Marysville Creek.
- 4. Morrison and Beatty Limited (MBL), 1979. A preliminary hydrogeologic report with an Application for Certificate of approval to the MOE.
- 5. MBL, 1980. A preliminary hydrogeologic report dealing with the proposed landfill expansion.
- 6. Morrison and Beatty Limited, 1981. Groundwater flow patterns to the west of the Richmond landfill.
- 7. MBL, 1984. A comprehensive hydrogeologic study.
- 8. MBL, 1984. Reprint of the March 1984 MBL report. October.
- 9. MBL, 1985: Hydrogeologic Study, Proposed Landfill Expansion, Township of Richmond. Report to Sutcliffe Sanitation Services Ltd., 69 p.
- 10. MBL, 1986. Addendum Report Number 1.
- 11. MBL, 1987. Addendum Report Number 2.
- 12. Water and Earth Science Associates Ltd. (WESA), 1991. *Hydrogeological Study of the Laidlaw Waste Systems (Richmond) Ltd. Sanitary Landfill Site, Napanee, Ontario.*
- 13. WESA, 2000. 2000 Supplemental Hydrogeology Program, Canadian Waste Services Inc., Richmond landfill, Town of Greater Napanee.
- 14. WESA, 2004: Detailed Background Report to Discussion Paper #5 "Hydrogeology Baseline Conditions" Parts A and B, Richmond Landfill Expansion Environmental Assessment.
- 15. WESA, 2005: Detailed Background Report to Discussion Paper #7, Impact Assessment, Hydrogeology, Richmond Landfill Expansion Environmental Assessment.
- 16. WESA, 2005: Addendum to Detailed Background Report to Discussion Paper #5 Hydrogeology Baseline Conditions
- 17. Waste Management (WM), 2006: *Response to MOE Review Comments*, July 18, 2006. Specifically Attachments prepared by WESA:
 - o Attachment C: Minutes of July 6, 2006 Hydrogeological Meeting
 - o Attachment D: Additional Drilling and Sampling Results
 - o Attachment E: Leachate Generation Model Revisited
 - o Attachment F: Geophysical Survey Results
 - o Attachment G: Hydrology of Marysville Creek and Beechwood Ditch
 - o Attachment H: Modelling Sensitivity Analysis (Impact Assessment)
 - o Attachment I: Professional Opinion Conceptual Model
 - o Attachment J: Reasonable Use Presentation and Alternatives
 - o Attachment M: Landfill Gas Monitoring Results

- 18. WESA, 2006: Supplemental Monitoring WM Richmond Landfill Site, Napanee Ontario, Letter to MOE, 2 Nov. 2006.
- 19. WESA, 2007: Post-Closure Environmental Monitoring Plan, Richmond Landfill, Town of Greater Napanee, Ontario, June 2007.
- 20. WESA, 2008: June 2008 Supplemental Hydrogeological Investigation Richmond Landfill, Letter to MOE, 24 Jul., 2008.
- 21. WESA, 2008: 2006 Supplemental Hydrogeology Program, Waste Management of Canada, Richmond Landfill, Town of Greater Napanee, Oct., 2008.
- 22. WESA, 2008: Response to discussion items at Nov. 25, 2008 Meeting (MOE Kingston Office), 16 Dec., 2008:
 - a. Effect of groundwater density on pressure head, Richmond Landfill
 - b. WM Richmond Landfill: Regional Geology and Structural Trends
 - c. WM Richmond Landfill: Groundwater Flow in the Zone 3-10 m below Top of Bedrock (updated 22 Jan. 2009)
 - d. Updated Elevation Data at Groundwater Monitor OW57, 22 Jan. 2009
- 23. WESA, 2008: Additional Sampling at M96 to M104 Richmond Landfill, Letter to MOE, 12 Feb., 2009.

Part B) Annual Environmental Monitoring Reports

Morrison-Beatty (up to 1988)

- a. Morrison and Beatty Limited. *Monitoring Report for 1987, Tricil Limited Landfill, Township of Richmond, Country of Lennox of Addington.* Report to Tricil Limited, March, 1988, 20 pp. 1988.
- b. Morrison and Beatty Limited. The Annual Monitoring Report for 1988. 1989.

WESA (1989-present)

- a. 1989 Annual Report, Laidlaw Sanitary Landfill Site, Township of Richmond, Unpublished Report.
- b. 1989 Annual Groundwater Report, Laidlaw Sanitary Landfill Site, Township of Richmond.
- c. 1990 Annual Groundwater Report, Laidlaw Sanitary Landfill Site, Township of Richmond.
- d. 1991 Annual Groundwater Report, Laidlaw Sanitary Landfill Site, Township of Richmond. 1992.
- e. 1992 Annual Groundwater Report, Laidlaw Waste Systems (Richmond) Ltd. Landfill Site, Township of Richmond.
- f. 1993 Annual Monitoring Report, Laidlaw Waste Systems (Richmond) Ltd. Landfill, Township of Richmond.
- g. 1994 Annual Monitoring Report, Laidlaw Waste Systems (Richmond) Ltd. Landfill, Township of Richmond.
- h. 1995 Annual Monitoring Report, Laidlaw Waste Systems (Richmond) Ltd. Landfill, Township of Richmond.
- i. 1996 Annual Monitoring Report, Laidlaw Waste Systems (Richmond) Ltd. Landfill, Township of Richmond.

- j. 1997 Annual Monitoring Report, Canadian Waste Services Inc. Richmond Landfill, Town of Greater Napanee.
- k. 1998 Annual Monitoring Report, Canadian Waste Services Inc., Richmond Landfill, Town of Greater Napanee.
- I. 1999 Annual Monitoring Report, Canadian Waste Services Inc., Richmond landfill, Town of Greater Napanee.
- m. 2000 Annual Monitoring Report, Canadian Waste Services Inc., Richmond landfill, Town of Greater Napanee.
- n. 2001 Annual Monitoring Report, Canadian Waste Services Inc., Richmond landfill, Town of Greater Napanee.
- o. 2002 Annual Monitoring Report, Canadian Waste Services Inc., Richmond landfill, Town of Greater Napanee.
- p. 2003 Annual Monitoring Report, Canadian Waste Services Inc., Richmond landfill, Town of Greater Napanee.
- q. 2004 Annual Monitoring Report, Canadian Waste Services Inc., Richmond landfill, Town of Greater Napanee.
- r. 2005 Annual Monitoring Report, Canadian Waste Services Inc., Richmond landfill, Town of Greater Napanee.
- s. 2006 Annual Monitoring Report, Canadian Waste Services Inc., Richmond landfill, Town of Greater Napanee.
- t. 2007 Annual Monitoring Report, Waste Management of Canada, Richmond landfill, Town of Greater Napanee.
- 2008 Annual Monitoring Report, Waste Management of Canada, Richmond landfill, Town of Greater Napanee.