

Industrial, Commercial and Institutional (IC&I) Waste in Oxford County, Ontario

Estimated Quantities Exported from the County

Prepared for
Oxford County

Prepared by

AET Group Inc.
531 Wellington St. North
Kitchener ON N2H 5L6
T (519) 576-9723
F (519) 570-9589
www.aet98.com

May 4, 2017

Project No. OXF_WAC1617_053



TABLE OF CONTENTS

EXECUTIVE SUMMARY	1
1.0 INTRODUCTION	3
2.0 APPROACH AND METHODOLOGY	3
2.1 IC&I Sector Profile	3
2.2 IC&I Sector Survey.....	4
2.3 Hauler Profile and Survey.....	4
2.4 Estimated IC&I and C&D Waste Available for Disposal and Exported	5
2.5 IC&I Model	5
3.0 IC&I SECTOR PROFILE	5
3.1 Employment in the IC&I Sector in Oxford County	6
3.2 Number of Businesses by Category in Oxford County	9
3.3 Number of Farms in Oxford County	10
4.0 ESTIMATE OF IC&I AND C&D WASTE QUANTITIES	10
4.1 Estimate of IC&I and C&D Waste Quantities Using Statistics Canada Data	11
4.2 Estimate of IC&I Waste Disposal Using Owen Sound Study Data	12
4.3 Estimate of IC&I Waste in Oxford County Using Results of City of Ottawa IC&I Study	15
4.4 Summary of IC&I and C&D Waste Disposal Estimates for Oxford County	17
4.5 Staff Estimate of IC&I Waste Leaving the County	18
4.6 Estimated IC&I Waste Exported from Oxford County	19
5.0 IC&I SECTOR SURVEY.....	22
5.1 IC&I Survey Responses and Results	23
6.0 HAULER SURVEY RESULTS	27
7.0 IC&I MODEL RESULTS	29
7.1 Oxford County Disposed IC&I Waste Composition	30
7.2 Most Significant IC&I Waste Generators in Oxford County	31
7.3 IC&I Sectors Which Produce Most Food and Paper Waste	33
8.0 CONCLUSIONS & RECOMMENDATIONS	35
8.1 Conclusions	35
8.2 Recommendations	36

LIST OF TABLES

Table 3.1 Employment by IC&I Category in Oxford County at 2-Digit NAICS Level	6
Table 3.2 Employment by IC&I Category in Oxford County	8
Table 3.3 Number of Businesses by NAICS Code (IC&I Category) in Oxford County.....	9
Table 3.4 Number of Farms and Operators in Oxford County in 2011 (Statistics Canada)	10
Table 4.1 Estimated C&D and IC&I Waste Disposed from Oxford County Sources Based on Statistics Canada Data.....	12
Table 4.2 Amount of Waste Disposed and Diverted by Number of Employees and Business Size in City of Owen Sound, From Self Reported Waste Audit Information (2007).....	13
Table 4.3 Estimated Amount of Waste Disposed and Diverted by Business Sector in City of Owen Sound, From Self Reported Waste Audit Information (2007)	14
Table 4.4 Estimated IC&I Waste Disposed from IC&I Sector in Oxford County Based on City of Owen Sound Data	15
Table 4.5 Employment and IC&I Residual Waste Disposal by NAICS Code in City of Ottawa	16

Table 4.6 Estimated IC&I Waste Disposed from IC&I Sector in Oxford County Based on City of Ottawa Data	17
Table 4.7 Summary of Estimated IC&I Waste Disposed from IC&I Sector in Oxford County Based on Three Approaches.....	17
Table 4.8 Oxford County Staff Estimate of IC&I Waste Leaving the County in 2014	19
Table 4.9 Summary of Loads Considered IC&I and C&D Waste at Oxford Landfill (2016).....	21
Table 5.1 IC&I Survey Participant Response Rates.....	24
Table 5.2 Haulers and Recycling Companies Used by IC&I Survey Participants.....	26
Table 7.1 Estimated Composition of Disposed IC&I Waste from Oxford County	30
Table 7.2 Estimated Contribution to Disposed IC&I Waste from Oxford County by Major IC&I Sectors, 2016	32

LIST OF FIGURES

Figure 7.1 Disposed IC&I Waste Composition, Oxford County, Ontario, 2016	31
Figure 7.2 Contribution of Different IC&I Sectors to the Disposed IC&I Waste Stream in Oxford County, Ontario, 2016 (tonnes and % of total IC&I Waste Stream)	33
Figure 7.3 Contribution of Different IC&I Sectors to the Food Waste Disposed in the IC&I Waste Stream in Oxford County, Ontario, 2016 (% of total food waste production)	34
Figure 7.4 Contribution of Different IC&I Sectors to the Paper Disposed in the IC&I Waste Stream in Oxford County, Ontario, 2016 (% of total food waste production)	35

APPENDICES

Appendix A. IC&I Waste Survey
Appendix B. Detailed Business Information for Oxford County
Appendix C. IC&I and C&D Loads Greater than 10 Tonnes per year at OCWMF Landfill (2016)
Appendix D. Selected IC&I Waste Survey Responses Presented Graphically
Appendix E. Hauler Survey Questions
Appendix F. References