

Lake-a (tile 12) - Looking west at flooded wooded area. Site is located on South Cayuga Road between Bains Road and Rainham Road.



Lake-a (tile 12) - Looking downstream (west) from South Cayuga Road at watercourse location and adjacent agricultural fields. Site is located on South Cayuga Road, between Bains Road and Rainham Photo 3: Road.



Lake-a (tile 12) Looking upstream (east) from South Cayuga Road at watercourse location and adjacent agricultural fields. Site is located on South Cayuga Road, between Bains Road and Rainham Road.



July 2011 160960577

Appendix B1

Page 1 of 21



Lake-b (tile 12) - Looking upstream (east) from South Cayuga Road at location where channel is mapped. Site is located on South Cayuga Road, between Bains Road and Rainham Road.



Lake-b (tile 12) - Looking downstream (west) from South Cayuga Road at adjacent residential location and location where channel is Photo 5: mapped and properties. Site is located on South Cayuga Road, between Bains Road and Rainham Road.



Appendix B1

Page 2 of 21



Photo 6: Lake-c (tile 12) - Looking south at man-made pond. Site is located south of Rainham Road between South Cayuga Road and Hald-Dunn Townline Road



Photo 8: Lake-c (tile 12) - Looking downstream (southeast) at drain feature flowing through agricultural field and into wooded area. Site is located south of Rainham Road between South Cayuga Road and Hald-Dunn Townline Road.



Photo 7: Lake-c (tile 12) - Looking upstream (northwest) at drain feature flowing through agricultural field. Site is located south of Rainham Road between South Cayuga Road and Hald-Dunn Townline Road.



Photo 9: Lake-c (tile 12) - Looking at existing conditions within drain feature flowing through agricultural field. Site is located south of Rainham Road between South Cayuga Road and Hald-Dunn Townline Road.



July 2011 160960577

Appendix B1

Page 3 of 21



Photo 10: Lake-d (tile 15) - Looking downstream in low-lying area near interface with adjacent wooded area. Site is located east of Hald-Dunn Townline Road between Rainham Road and the lakeshore.



Photo 12: Lake-d (tile 15) - Looking upstream in low-lying area near border with adjacent wooded area. Site is located east of Hald-Dunn Townline Road between Rainham Road and the lakeshore.



Photo 14: Lake-d (tile 15) - Looking upstream (southwest) at watercourse in wooded area. Site is located east of Hald-Dunn Townline Road between Rainham Road and the lakeshore.





Photo 11: Lake-d (tile 15) - Looking at confluence of two channels in low-lying area near interface with adjacent wooded area. Site is located east of Hald-Dunn Townline Road between Rainham Road and the



Photo 13: Lake-d (tile 15) - Looking downstream (northeast) at watercourse in wooded area. Site is located east of Hald-Dunn Townline Road between Rainham Road and the lakeshore.



Photo 15: Lake-d (tile 15) - Looking at historic watercourse channel locations as evidenced by abandoned channel. Site is located east of Hald-Dunn Townline Road between Rainham Road and the lakeshore.

July 2011 160960577

Appendix B1

Page 4 of 21

Title



Photo 16: Lake-d (tile 15) - Looking at isolated linear pool with no upstream or downstream connection. Site is located east of Hald-Dunn Townline Road between Rainham Road and the lakeshore.



hoto 18: Lake-d (tile 15) - Looking upstream at CSP culvert and channel from ATV trail in wooded area. Site is located east of Hald-Dunn Townline Road between Rainham Road and the lakeshore.



Photo 20: Lake-d (tile 15) - Looking at water feature identified from MNR mapping. Site is located east of Hald-Dunn Townline Road between Rainham Road and the lakeshore.





Photo 17: Lake-d (tile 15) - Looking at upstream channel from ATV trail in wooded area. Site is located east of Hald-Dunn Townline Road between Rainham Road and the lakeshore.



Photo 19: Lake-d (tile 15) - Looking downstream at CSP culvert and channel from ATV trail in wooded area. Site is located east of Hald-Dunn Townline Road between Rainham Road and the lakeshore.



Photo 21: Lake-d (tile 15) - Looking downstream (west) from culvert on Hald-Dunn Townline Road, south of Rainham Road.

July 2011 160960577

Appendix B1

Page 5 of 21

Titlo



Photo 22: Lake-d (tile 15) - Looking at substrate at culvert on Hald-Dunn Townline Road, south of Rainham Road.



GRAND RENEWABLE ENERGY PARK

Appendix B1

Page 6 of 21

July 2011 160960577

LAKE ERIE TRIBUTARIES SUBWATERSHED PHOTOS



Photo 23: Lake-e (tile 15) - Looking at isolated man-made irrigation pond. Site is located east of Hald-Dunn Townline Road between Rainham Road and the lakeshore.



Photo 24: Lake-e (tile 15) - Looking at wooded area with wet soil and small amounts of standing water with no visible outflow. Site is located east of Hald-Dunn Townline Road between Rainham Road and the



Appendix B1 Page 7 of 21



Photo 25: Lake-f (tile 15) - Looking at second isolated man-made irrigation pond.

Pond area contains large amounts of debris. Site is located east of Hald-Dunn Townline Road between Rainham Road and the lakeshore.



Photo 27: Lake-f (tile 15) - Looking downstream (south) from CSP culvert over an agricultural drain. Site is located east of Hald-Dunn Townline Road between Rainham Road and the lakeshore.



Photo 29: Lake-f (tile 15) -Looking upstream (north) from culvert on Lakeshore Road approximately 100 metres from the lake shore. Site is located east of Hald-Dunn Townline Road between Rainham Road and the lakeshore.

Stantec



Photo 26: Lake-f (tile 15) - Looking upstream (east) at agricultural drain. Site is located east of Hald-Dunn Townline Road between Rainham Road and the lakeshore.



Photo 28: Lake-f (tile 15) – Watercourse likely associated with ponds at Lake-f. Looking downstream (south) from culvert on Lakeshore Road approximately 100 metres from the lake shore. Site is located east of Hald-Dunn Townline Road between Rainham Road and the lakeshore.



Photo 30: Lake-f (tile 15) - Looking upstream (northeast) at agricultural drain.
Site is located east of Hald-Dunn Townline Road between Rainham
Road and the lakeshore.

Client/Project SAMSUNG C&T GRAND RENEWABLE ENERGY PARK July 2011 160960577

 Appendix
 Page

 B1
 8 of 21

Title

LAKE ERIE TRIBUTARIES SUBWATERSHED PHOTOS



Photo 31: Lake-f (tile 15) - Looking downstream (southwest) at drain in the middle of an agricultural field. Site is located east of Hald-Dunn Townline Road between Rainham Road and the lakeshore.



Photo 33: Lake-f (tile 15) - Looking upstream (east) at channel flowing through a wooded area on west side of site. Site is located east of Hald-Dunn Townline Road between Rainham Road and the lakeshore.



Photo 35: Lake-f (tile 15) - Looking upstream (north) from Lakeshore Road approximately 100 metres from the lake shore. Site is located east of Hald-Dunn Townline Road between Rainham Road and the lakeshore.





Photo 32: Lake-f (tile 15) - Looking upstream (northeast) at drain in the middle of an agricultural field. Site is located east of Hald-Dunn Townline Road between Rainham Road and the lakeshore.



Photo 34: Lake-f (tile 15) - Looking downstream (west) at channel flowing through a wooded area on west side of site. Site is located east of Hald-Dunn Townline Road between Rainham Road and the lakeshore.



Photo 36: Lake-f (tile 15) - Looking downstream (south) from Lakeshore Road approximately 100 metres from the lake shore. Site is located east of Hald-Dunn Townline Road between Rainham Road and the lakeshore.

July 2011 160960577

Appendix

Page 9 of 21

Title

LAKE ERIE TRIBUTARIES SUBWATERSHED PHOTOS



Photo 37: Lake-i (tile 15) - Looking upstream (northeast) from concrete culvert at channel flowing through field. Site is located on Kings Row, between Haldimand Road 49 and Myrnam Beach Road.



Photo 38: Lake-i (tile 15) - Looking at downstream (southwest) from concrete culvert at channel flowing through wooded area. Site is located on Kings Row, between Haldimand Road 49 and Myrnam Beach Road.



nendiy

Appendix B1 Page 10 of 21



Photo 39: Lake-j (tile 10) - Looking upstream (west) at CSP culvert and water feature from Haldimand Road 50, approximately 300 m north of the lake shore



Photo 41: Lake-j (tile10) - Looking downstream (southeast) at CSP culvert and water feature from Haldimand Road 50, approximately 300 m north of the lake shore.



Photo 40: Lake-j (tile 10) - Looking upstream (south) at CSP culvert and water feature from Haldimand Road 50, approximately 300 m north of the lake shore



Photo 42: Lake-j (tile 10) - Looking at substrate at CSP culvert on Haldimand Road 50, approximately 300 m north of the lake shore.



July 2011 160960577

Appendix B1

Page 11 of 21



Lake-k (tile 12) - Looking at roadside drain and channel location. Site is located on South Cayuga Road, between Rainham Road and the



Lake-k (tile 12) - Looking downstream (west) at roadside drain and channel location in agricultural field. Site is located on South Cayuga Road, between Rainham Road and the lakeshore.



Appendix B1 Title

Page 12 of 21



Photo 45: Lake-I (tile 16) - Looking north at swale on Haldimand Tract Road. Site is located on Haldimand Tract Road between Marshall Road and Haldimand Trail.



July 2011 160960577

Appendix B1 Page 13 of 21



Lake-m (tile 16) - Looking south at feature location. Site is located on Kings Row between Marshall Road and Johnson Road.



Lake-m (tile 16) - Looking northeast at feature location. Site is located on Kings Row between Marshall Road and Johnson Road.



July 2011 160960577

Appendix B1

Page 14 of 21



Photo 48: Lake-n (tile 16) - Looking south at channel flowing between two agricultural fields. Site is located on Kings Row between Marshall Road and Johnson Road.



Photo 49: Lake-n (tile 16) - Looking northwest at feature location. Site is located on Kings Row between Marshall Road and Johnson Road.



GRAND RENEWABLE ENERGY PARK

Appendix B1

Page 15 of 21



Photo 50: Lake-o (tile 16) - Looking east at mapped location of drainage feature. Site is located on Marshall Road between Haldimand Tract Road and Kings Row.



Photo 51: Lake-o (tile 16) - Looking west at mapped location of drainage feature.
Site is located on Marshall Road between Haldimand Tract Road and
Kings Row



July 2011 160960577

Appendix B1

Page 16 of 21



Photo 52: Lake-p (tile 16) - Looking downstream (southeast) at channel flowing between two agricultural fields. Site is located on Kings Row between Marshall Road and Johnson Road.



Photo 53: Lake-p (tile 16) - Looking upstream (north) at channel flowing between two agricultural fields. Site is located on Kings Row between Marshall Road and Johnson Road.



July 2011 160960577

Appendix B1 Page 17 of 21

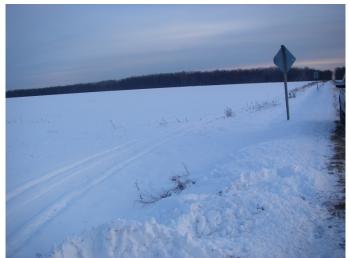


Photo 54: Lake-q (tile 12) - Looking at roadside ditch along South Cayuga Road at channel location. Site is located on South Cayuga Road, between Rainham Road and the lakeshore.



Photo 55: Lake-q (tile 12) - Looking downstream (west) at channel location on South Cayuga Road. Site is located on South Cayuga Road, between Rainham Road and the lakeshore.



July 2011 160960577

Appendix B1 Page 18 of 21



Photo 56: Lake-r (tile 10) - Looking downstream (southeast) from edge of wooded area at small drain feature flowing through an in-active agricultural field. Site is located east of Haldimand Road 50 between Rainham Road and the lake shore.



Photo 58: Lake-r (tile 10) - Looking at wetted area in centre of wooded area. Site is located east of Haldimand Road 50 between Rainham Road and the lake shore.



Photo 57: Lake-r (tile 10) - Looking upstream (northwest) from edge of in-active agricultural field at small drain feature flowing through wooded area. Site is located east of Haldimand Road 50 between Rainham Road and the lake shore.



Photo 59: Lake-r (tile 10) -Looking downstream (southeast) from wetted area in centre of wooded area. Site is located east of Haldimand Road 50 between Rainham Road and the lake shore.



GRAND RENEWABLE ENERGY PARK

Appendix
B1

Page 19 of 21

July 2011

160960577



Photo 60: Lake-s (Tile 10) Looking west (upstream) showing absence of channel through edge of agricultural field.



Photo 61: Lake s (Tile 10) Looking east (downstream) showing dry, low lying area through agricultural field.



Photo 62: Lake-s (Tile 10) Showing substrate. Note that site is ploughed through and planted.



Appendix
B1

Page 20 of 21

July 2011 160960577

(E EDIE TDIDI ITADIEO OLIDIA



Photo 63: Lake-t (Tile 10) Looking west (upstream) showing dry, low lying area through agricultural field.



Photo 64: Lake-t (Tile 10) Looking east (downstream) showing dry, low lying area through agricultural field.



Photo 65: Lake-t (Tile 10) Showing substrate. Note that site is ploughed through and planted.



July 2011 160960577

Appendix B1

Page 21 of 21