
TO: MAYOR J. LEHMAN AND MEMBERS OF CITY COUNCIL

FROM: D. MCALPINE, CITY CLERK

NOTED: E. ARCHER, CMA, GENERAL MANAGER OF CORPORATE SERVICES *EdLL*
C. LADD, CHIEF ADMINISTRATIVE OFFICER *[Signature]*

RE: WARD BOUNDARY REVIEW PROJECT – REVIEW OF ALTERNATIVE CONFIGURATIONS

DATE: JUNE 17, 2013

The purpose of this memorandum is to provide members of City Council with an update concerning the Ward Boundary Review Project.

On June 3, 2013, staff report CLK006-13 concerning the Ward Boundary Review Recommendations was referred to the Finance and Corporate Services Committee for further consideration.

A number of revisions to the recommended Ward Boundary Option were submitted by individual members of Council. The Consultant Team has reviewed the population forecasts associated with each alternative in preparation for the Finance and Corporate Services Committee scheduled for June 19, 2013. A copy of the original Option 1 as well as each of the Alternatives and their associated population forecasts is attached as Appendix "A" to this memorandum along with the Consultant Team's evaluation of each of the Alternatives.

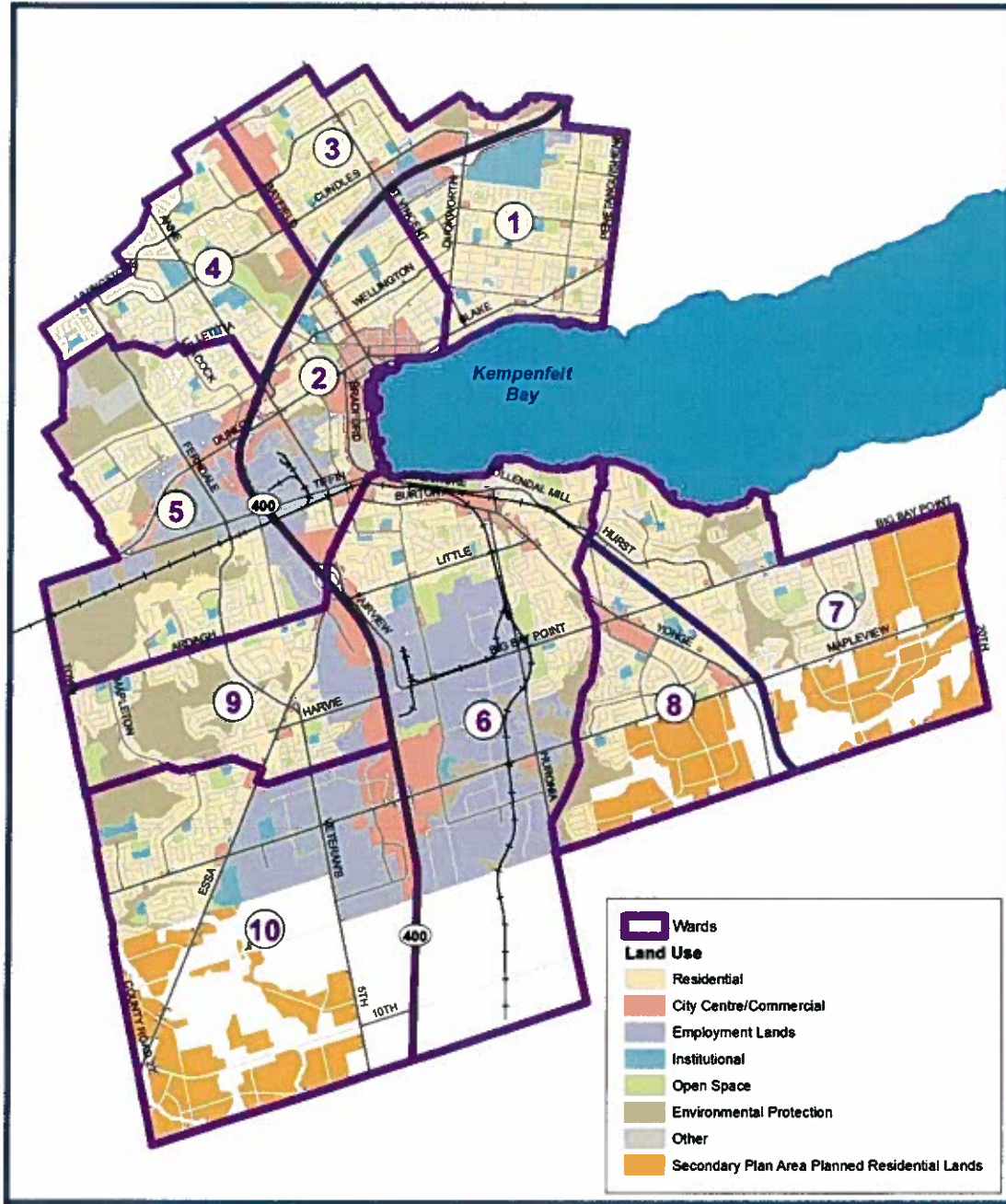
[Signature]

Dawn McAlpine, City Clerk

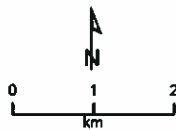
Appendix "A"

**Ward Boundary Maps, Population Forecasts and Evaluation Summaries
for Option One and Alternatives**

Option One - City of Barrie Ward Boundary Review Report prepared by Watson & Associates Economists Ltd. in association with Dr. Robert Williams, dated May 22, 2013



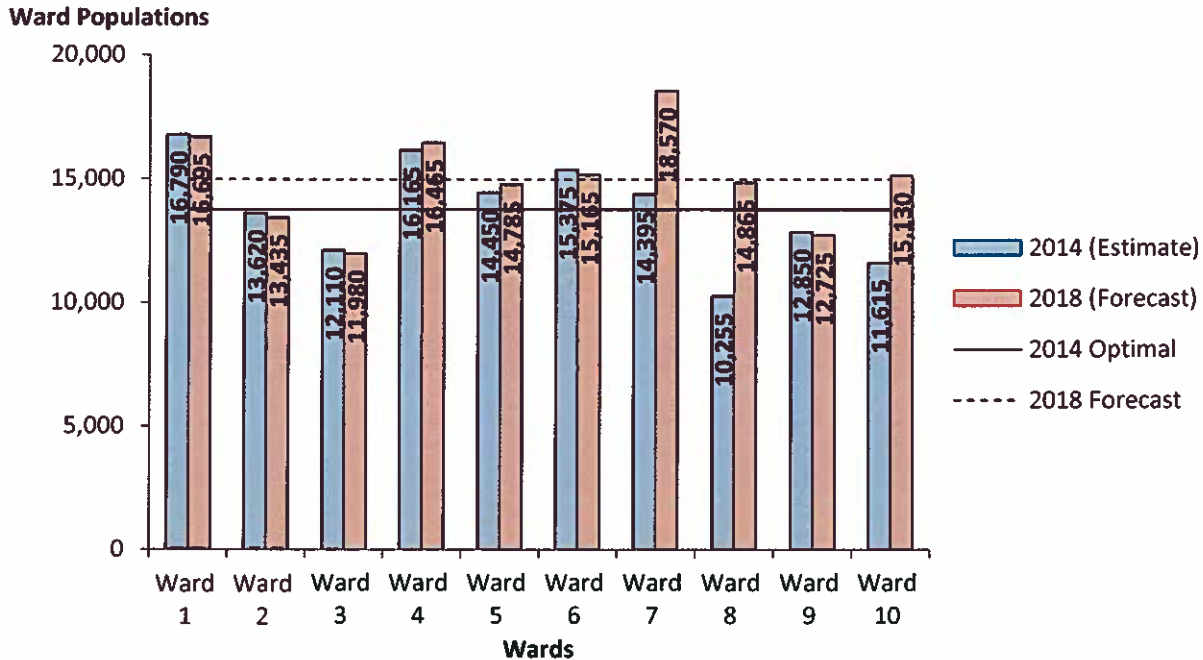
In association with:
Dr. Robert J. Williams



**CITY OF BARRIE
OPTION ONE WARD STRUCTURE**

2013 Ward Boundary Review

Option 1 Ward Structure Population Distribution



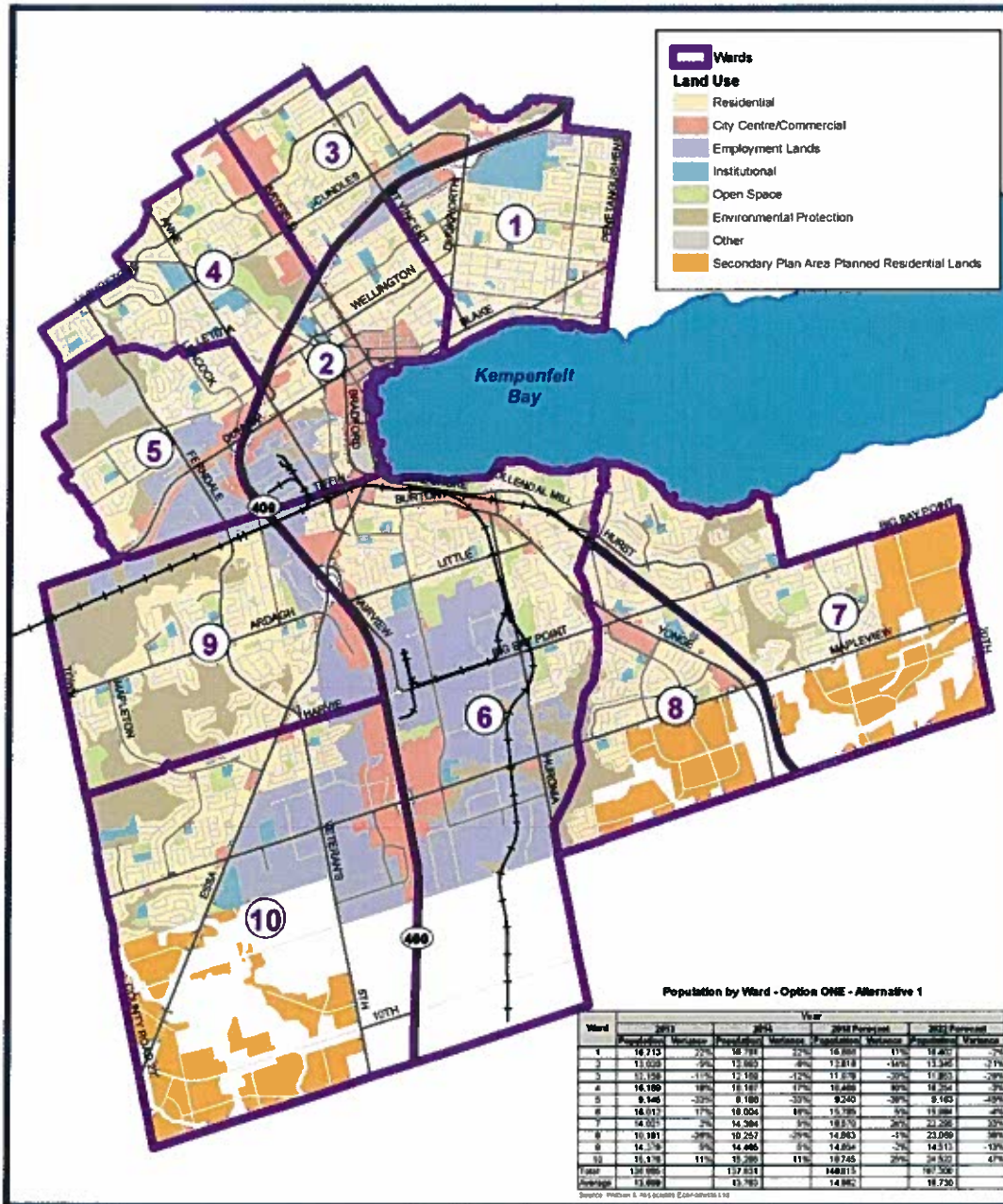
Source: Watson & Associates Economists Ltd. and Dr. Robert J. Williams
Excludes Census undercount of approximately 4%

Option 1 Ward Boundary Configuration Evaluation Summary – 2014 and 2018 only

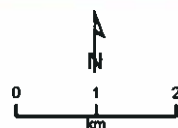
Principle	Evaluation	Comment
Representation by Population	Yes	Only three wards are optimal, but all within the defined range of variation for 2014.
Population & Electoral Trends	Yes	Design plausible for 2018. Four wards are optimal in 2018; one at limit of range.
Means of Communication & Accessibility	Yes	Hwy 400, GO railway line, Bayfield used as dividers; some less traditional lines (between Wards 4 and 5, 9 and 10).
Geographical & Topographical Features	Yes	Natural features used extensively. Major natural features respected in ward boundaries.
Community or Diversity of Interests	Mixed	Ward 1-2 boundary divides similar neighbourhoods; also Ward 4-5 boundary. With the exception of the proposed Ward 5, others good. Ward 2 increasingly less coherent with intensification.
Effective Representation	Mixed	Acceptable level of population imbalances related to the dilution of votes. Proposed Ward 5 includes non-adjointing communities. Area-population relationship works against effective representation.

Source: Watson & Associates Economists Ltd. and Dr. Robert J. Williams

Alternative 1 to the Recommended Option:



Watson & Associates
ECONOMISTS LTD
In association with:
Dr. Robert J. Williams



**CITY OF BARRIE
OPTION ONE - ALTERNATIVE 1
WARD STRUCTURE
2013 Ward Boundary Review**

Alternative 1 to the Recommended Option:

Revisions to Recommended Option

- Wards 1, 3, 4, 8 and 7 as per Option One
- Boundary between Wards 2 and 6 and Wards 5 and 9 moved north to Tiffin
- Boundary between Wards 9 and 10 moved north to Harvie Road

**Alternative 1 - Population Distribution by Ward
Estimates for 2014 and 2018 Forecast**

Ward	2014 (Estimate)	Variance	2018 (Forecast)	Variance
Ward 1	16,791	22%	16,696	11%
Ward 2	12,993	-6%	12,818	-14%
Ward 3	12,109	-12%	11,978	-20%
Ward 4	16,167	17%	16,466	10%
Ward 5	9,186	-33%	9,240	-38%
Ward 6	16,004	16%	15,785	5%
Ward 7	14,394	5%	18,570	24%
Ward 8	10,257	-25%	14,863	-1%
Ward 9	14,465	5%	14,654	-2%
Ward 10	15,265	11%	18,745	25%
Average	13,763		14,982	

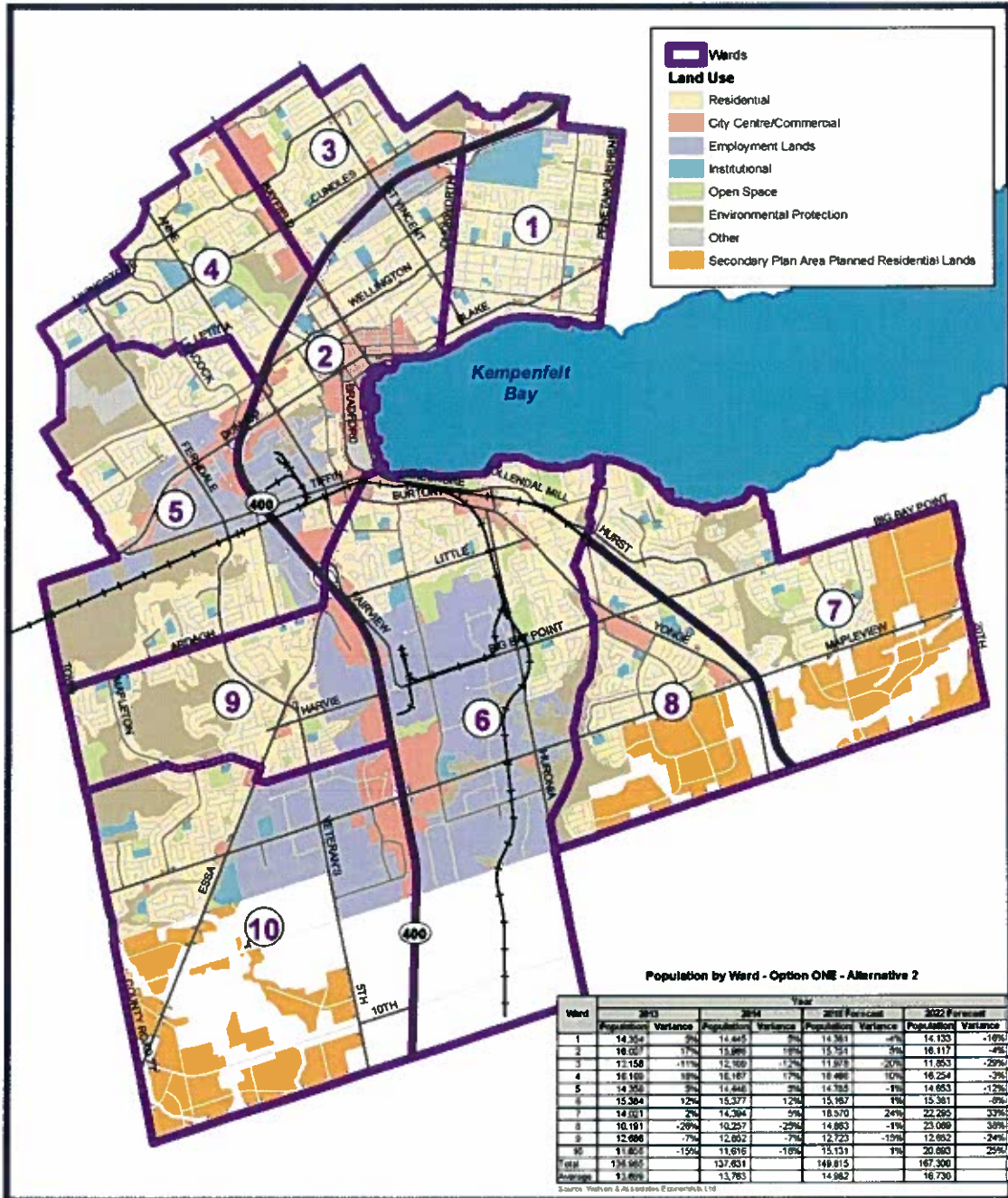
Source: Watson & Associates Economists Ltd. and Dr. Robert J. Williams
Excludes Census undercount of approximately 4%

Summary Assessment Option One – Alternative 1

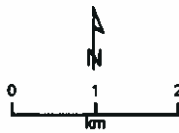
Principle	Evaluation	Comment
Rep by Pop	No	Two wards optimal, two at or below optimal range.
Pop & Electoral Trends	No	Three wards optimal 2018 and 2022; two outside range 2018, five 2022.
Communication & Accessibility	Yes	Hwy 400, GO railway line, Bayfield, Tiffin used as dividers. Ward 4-5 boundary unconventional.
Geographical and Topographical Features	Yes	Major natural boundaries respected in ward boundaries.
Community of Interests	Mixed	Ward 1-2 boundary divides similar neighbourhoods; also ward 4-5 boundary. Others good.
Effective Representation	No	Ward 3: small population, small area. Wards 7-8-10 large populations, large areas. Population imbalances dilute votes of many electors.

Source: Watson & Associates Economists Ltd. and Dr. Robert J. Williams

Alternative 2 to the Recommended Option:



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In association with:
Dr. Robert J. Williams



CITY OF BARRIE
OPTION ONE - ALTERNATIVE 2
WARD STRUCTURE
2013 Ward Boundary Review

Alternative 2 to the Recommended Option:

Revisions to Recommended Option

- Boundary between Wards 1 and 2 moved east to Duckworth Street

**Alternative 2 - Population Distribution by Ward
Estimates for 2014 and 2018 Forecast**

Ward	2014 (Estimate)	Variance	2018 (Forecast)	Variance
Ward 1	14,445	5%	14,381	-4%
Ward 2	15,966	16%	15,751	5%
Ward 3	12,109	-12%	11,978	-20%
Ward 4	16,167	17%	16,466	10%
Ward 5	14,448	5%	14,785	-1%
Ward 6	15,377	12%	15,167	1%
Ward 7	14,394	5%	18,570	24%
Ward 8	10,257	-25%	14,863	-1%
Ward 9	12,852	-7%	12,723	-15%
Ward 10	11,616	-16%	15,131	1%
Average	13,763		14,982	

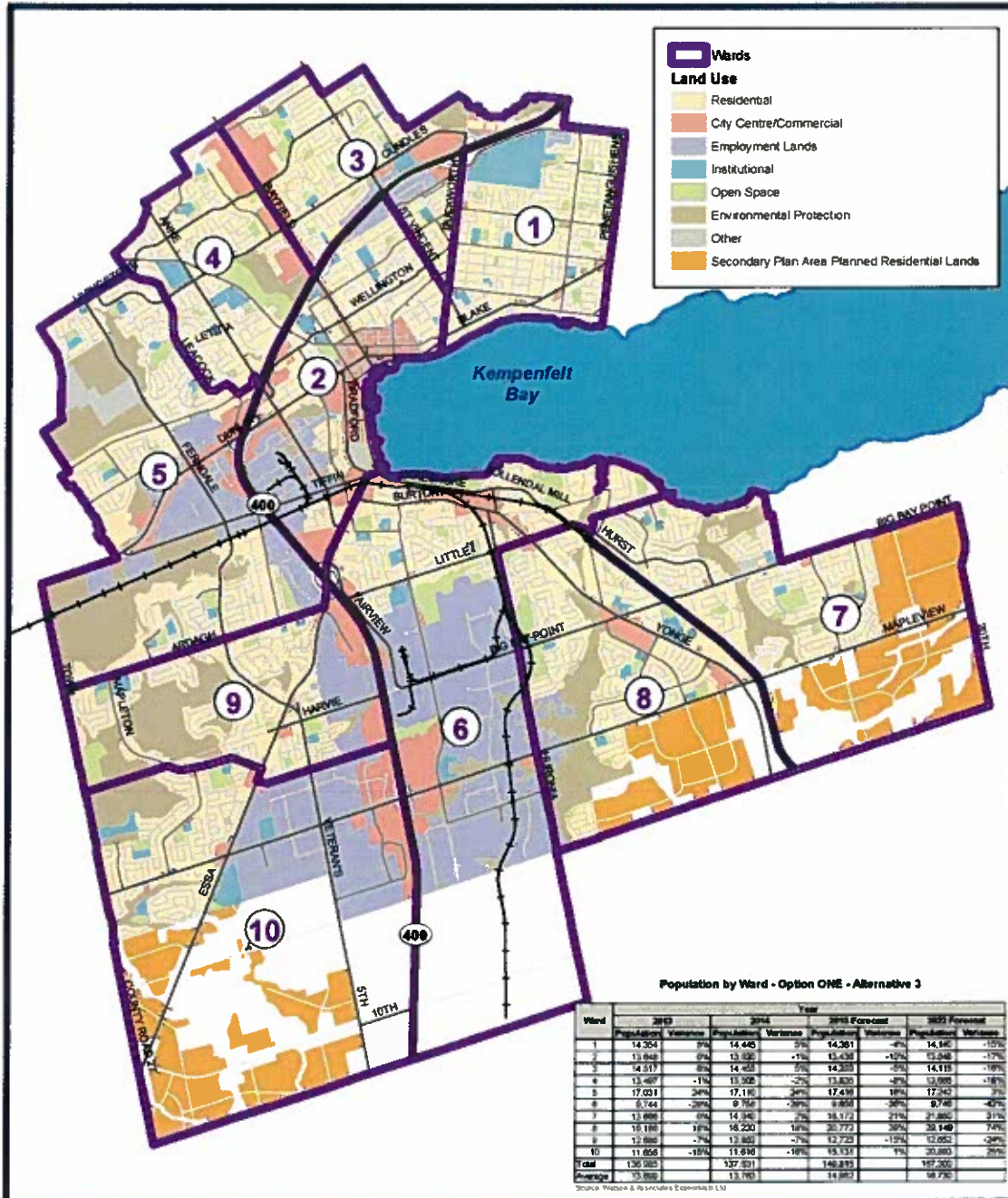
Source: Watson & Associates Economists Ltd. and Dr. Robert J. Williams
Excludes Census undercount of approximately 4%

Summary Assessment Option One – Alternative 2

Principle	Evaluation	Comment
Rep by Pop	Yes	Three wards optimal, one at bottom of optimal range.
Pop & Electoral Trends	No	Six wards optimal 2018 and two in 2022; none outside range 2018 (but two very close) , four outside range in 2022.
Communication & Accessibility	Yes	Hwy 400, GO railway line, Bayfield used as dividers. Ward 4-5 boundary unconventional.
Geographical and Topographical Features	Yes	Major natural boundaries respected in ward boundaries.
Community of Interests	Mixed	Ward 1-2 boundary divides similar neighbourhoods; also ward 4-5 boundary. Ward 5 crosses significant natural feature; Ward 3 crosses Hwy 400. Others good.
Effective Representation	No	Wards 7-8-10 large populations, large areas. Population imbalances dilute votes of many electors.

Source: Watson & Associates Economists Ltd. and Dr. Robert J. Williams

Alternative 3 to the Recommended Option:



Watson & Associates
ECONOMISTS LTD.
In association with:
Dr. Robert J. Williams



**CITY OF BARRIE
OPTION ONE - ALTERNATIVE 3
WARD STRUCTURE
2013 Ward Boundary Review**

Alternative 3 to the Recommended Option:

Revisions to Recommended Option

- Boundary between Ward 3 extends across Highway 400 to incorporate the area between Duckworth Street and St Vincent, altering the boundaries for Wards 1, 2 and 3
- Boundary between Wards 4 and 5 becomes Leacock Drive
- Boundary between Wards 6 and 8 follows moved west to Huronia Road then follows Little Avenue to Hurst Drive to Cox Mill to Dock Road to the Lake (reducing Ward 7 and expanding Ward 8)

**Alternative 3 - Population Distribution by Ward
Estimates for 2014 and 2018 Forecast**

Ward	2014 (Estimate)	Variance	2018 (Forecast)	Variance
Ward 1	14,445	5%	14,381	-4%
Ward 2	13,620	-1%	13,436	-10%
Ward 3	14,455	5%	14,293	-5%
Ward 4	13,505	-2%	13,835	-8%
Ward 5	17,110	24%	17,416	16%
Ward 6	9,758	-29%	9,656	-36%
Ward 7	14,040	2%	18,172	21%
Ward 8	16,230	18%	20,772	39%
Ward 9	12,852	-7%	12,723	-15%
Ward 10	11,616	-16%	15,131	1%
Average	13,763		14,982	

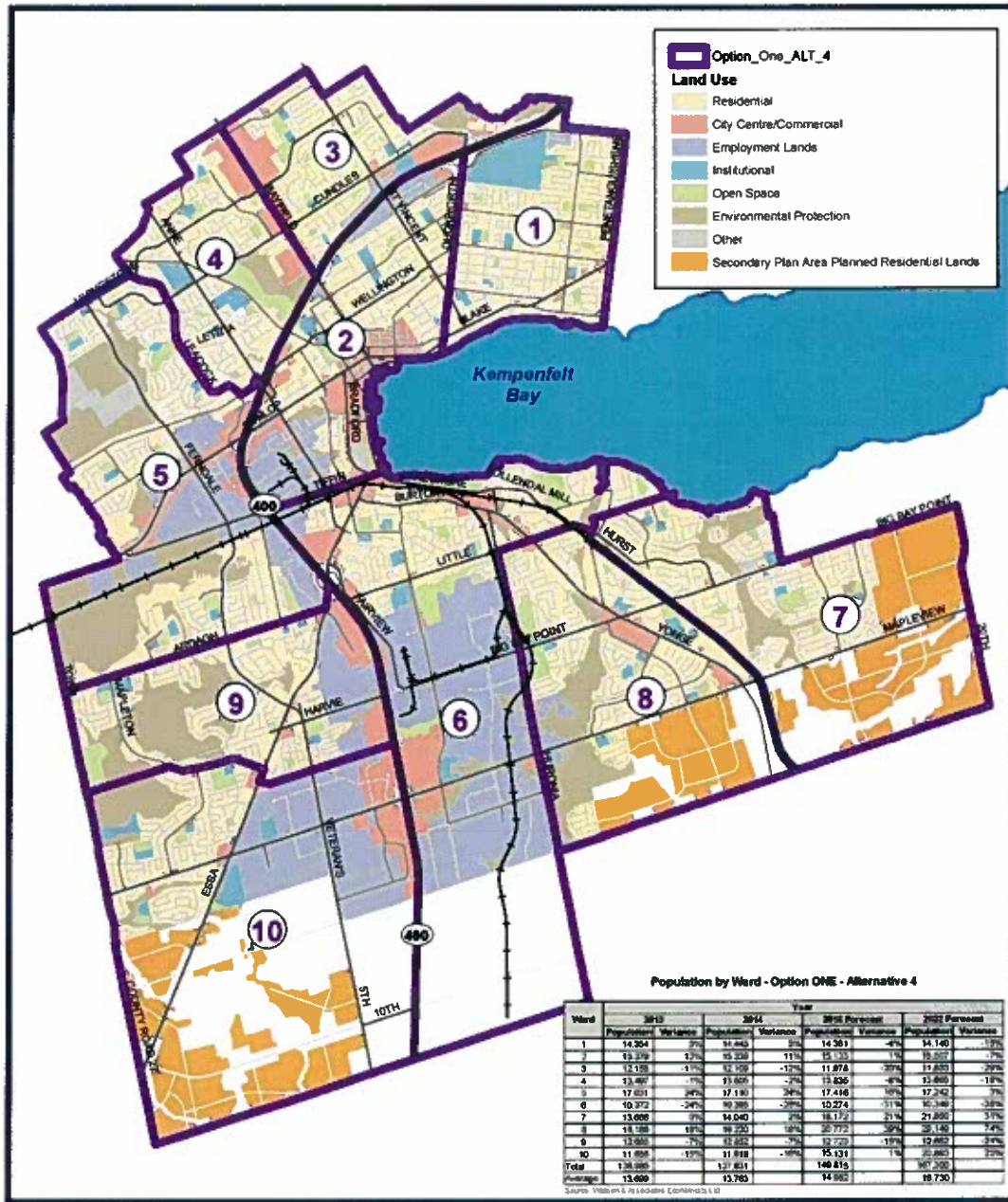
Source: Watson & Associates Economists Ltd. and Dr. Robert J. Williams
Excludes Census undercount of approximately 4%

Summary Assessment Option One – Alternative 3

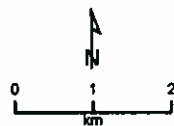
Principle	Evaluation	Comment
Rep by Pop	No	Five wards optimal, one outside optimal range.
Pop & Electoral Trends	No	Three wards optimal 2018 and one in 2022; two outside range 2018 , four outside range in 2022.
Communication & Accessibility	Yes	Hwy 400, GO railway line, Bayfield, Huronia used as dividers. Ward 4-5 boundary unconventional.
Geographical and Topographical Features	Yes	Major natural boundaries respected in ward boundaries.
Community of Interests	Mixed	Ward 4-5 and ward 9-10 boundaries divide similar neighbourhoods; also ward 4-5 boundary. Ward 5 crosses significant natural feature; Ward 3 crosses Hwy 400. Others good.
Effective Representation	No	Wards 7-8-10 large populations, large areas. Population imbalances dilute votes of many electors.

Source: Watson & Associates Economists Ltd. and Dr. Robert J. Williams

Alternative 4 to the Recommended Option:



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In association with:
Dr. Robert J. Williams



**CITY OF BARRIE
OPTION ONE - ALTERNATIVE 4
WARD STRUCTURE
2013 Ward Boundary Review**

Alternative 4 to the Recommended Option:

Revisions to Recommended Option

- Boundary between Wards 1 and 2 moves east to Duckworth Street
- Boundary between Ward 2 and 6 moves north to Tiffin Street
- Boundary between Wards 4 and 5 becomes Leacock Drive
- Boundary between Wards 6 and 8 moved west to Huronia Road then follows Little Avenue to Hurst Drive to Cox Mill to Dock Road to the Lake (reducing Ward 7 and expanding Ward 8)

**Alternative 4 - Population Distribution by Ward
Estimates for 2014 and 2018 Forecast**

Ward	2014 (Estimate)	Variance	2018 (Forecast)	Variance
Ward 1	14,445	5%	14,381	-4%
Ward 2	15,339	11%	15,133	1%
Ward 3	12,109	-12%	11,978	-20%
Ward 4	13,505	-2%	13,835	-8%
Ward 5	17,110	24%	17,416	16%
Ward 6	10,385	-25%	10,274	-31%
Ward 7	14,040	2%	18,172	21%
Ward 8	16,230	18%	20,772	39%
Ward 9	12,852	-7%	12,723	-15%
Ward 10	11,616	-16%	15,131	1%
Average	13,763		14,982	

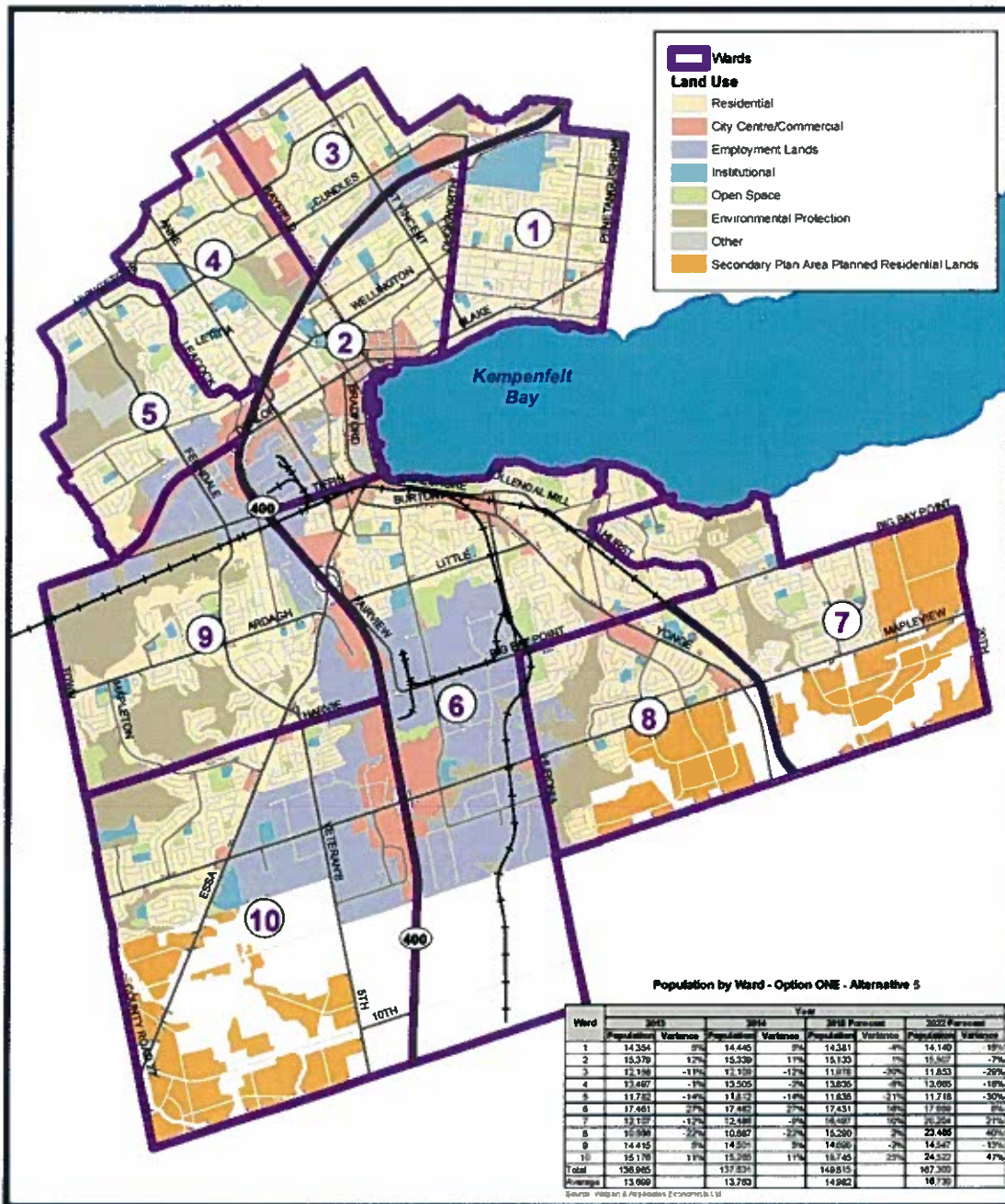
Source: Watson & Associates Economists Ltd. and Dr. Robert J. Williams
Excludes Census undercount of approximately 4%

Summary Assessment Option One – Alternative 4

Principle	Evaluation	Comment
Rep by Pop	No	Three wards optimal, two outside optimal range.
Pop & Electoral Trends	No	Two wards optimal 2018 and one in 2022; two outside range 2018 , six at or outside range in 2022.
Communication & Accessibility	Yes	Hwy 400, GO railway line, Bayfield, Huronia used as dividers. Ward 4-5 boundary unconventional.
Geographical and Topographical Features	Yes	Major natural boundaries respected in ward boundaries.
Community of Interests	Mixed	Ward 1-2, 4-5 and ward 9-10 boundaries divide similar neighbourhoods. Ward 5 crosses significant natural feature; Ward 3 crosses Hwy 400. Others good.
Effective Representation	No	Wards 7-8-10 large populations, large areas. Population imbalances dilute votes of many electors.

Source: Watson & Associates Economists Ltd. and Dr. Robert J.

Alternative 5 to the Recommended Option:



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Dr. Robert J. Williams



CITY OF BARRIE
OPTION ONE - ALTERNATIVE 5
WARD STRUCTURE
2013 Ward Boundary Review

Alternative 5 to the Recommended Option:

Revisions to Recommended Option

- Boundary between Wards 1 and 2 moves east to Duckworth Street
- Boundary between Ward 2 and 6 moves north to Tiffin Street
- Boundary between Wards 4 and 5 becomes Leacock Drive
- Boundary between Wards 5 and 9 moved north to Dunlop Street
- Boundary between Wards 6 and 8 follows Huronia Road to Big Bay Point to Hurst Drive, then along Hurst Drive north westerly to Cox Mill to Dock Road and from Dock Road to the Lake (reducing Wards 7 and Ward 8)

**Alternative 5 - Population Distribution by Ward
Estimates for 2014 and 2018 Forecast**

Ward	2014 (Estimate)	Variance	2018 (Forecast)	Variance
Ward 1	14,445	5%	14,381	-4%
Ward 2	15,339	11%	15,133	1%
Ward 3	12,109	-12%	11,978	-20%
Ward 4	13,505	-2%	13,835	-8%
Ward 5	11,812	-14%	11,835	-21%
Ward 6	17,482	27%	17,431	16%
Ward 7	12,486	-9%	16,497	10%
Ward 8	10,687	-22%	15,290	2%
Ward 9	14,501	5%	14,690	-2%
Ward 10	15,265	11%	18,745	25%
Average	13,763		14,982	

Source: Watson & Associates Economists Ltd. and Dr. Robert J. Williams
Excludes Census undercount of approximately 4%

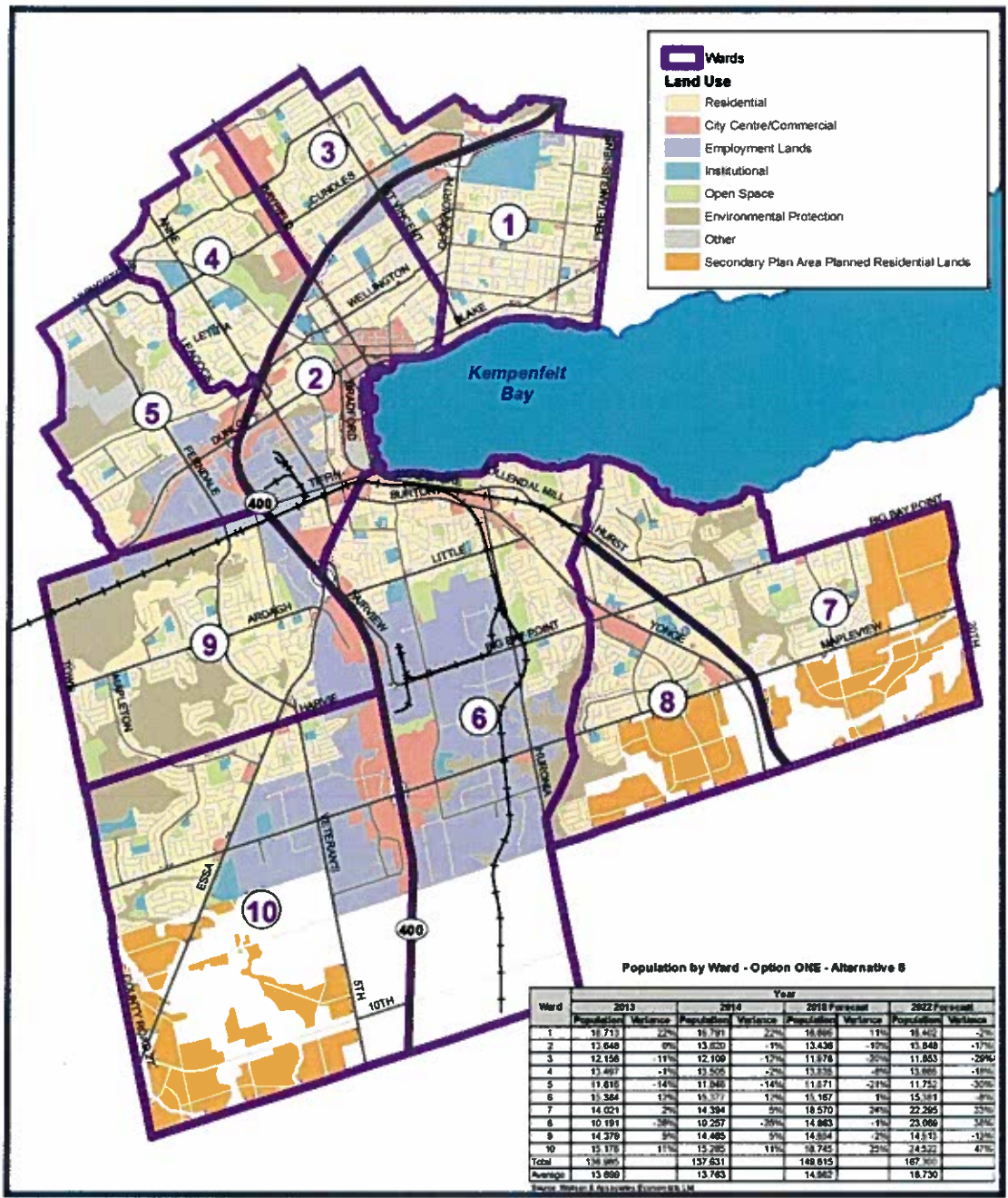
Summary Assessment Option One – Alternative 5

Principle	Evaluation	Comment
Rep by Pop	No	Three wards optimal, one outside optimal range.
Pop & Electoral Trends	No	Four wards optimal 2018 but none in 2022; one at limit of range 2018, four outside range in 2022.
Communication & Accessibility	Yes	Hwy 400, GO railway line, Bayfield, Dunlop, Huronia, Big Bay Point Road used as dividers. Ward 4-5 boundary unconventional.
Geographical and Topographical Features	Yes	Major natural boundaries respected in ward boundaries.
Community of Interests	Mixed	Ward 1-2, 4-5 boundaries divide similar neighbourhoods. Others good.
Effective Representation	No	Wards 7-8-10 large populations, large areas. Population imbalances dilute votes of many electors.

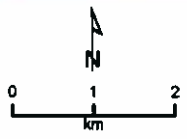
Source: Watson & Associates Economists Ltd. and Dr. Robert J. Williams

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Alternative 6 to the Recommended Option:



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CITY OF BARRIE
OPTION ONE - ALTERNATIVE 6
WARD STRUCTURE
2013 Ward Boundary Review

Alternative 6 to the Recommended Option:

Revisions to Recommended Option

- Boundary between Wards 4 and 5 becomes Leacock Drive
- Boundary between Wards 5 and 9 moved north to Tiffin Street
- Boundary between Wards 9 and 10 moved north to Harvie Road

**Alternative 6 - Population Distribution by Ward
Estimates for 2014 and 2018 Forecast**

Ward	2014 (Estimate)	Variance	2018 (Forecast)	Variance
Ward 1	16,791	22%	16,696	11%
Ward 2	13,620	-1%	13,436	-10%
Ward 3	12,109	-12%	11,978	-20%
Ward 4	13,505	-2%	13,835	-8%
Ward 5	11,848	-14%	11,871	-21%
Ward 6	15,377	12%	15,167	1%
Ward 7	14,394	5%	18,570	24%
Ward 8	10,257	-25%	14,863	-1%
Ward 9	14,465	5%	14,654	-2%
Ward 10	15,265	11%	18,745	25%
Average	13,763		14,982	

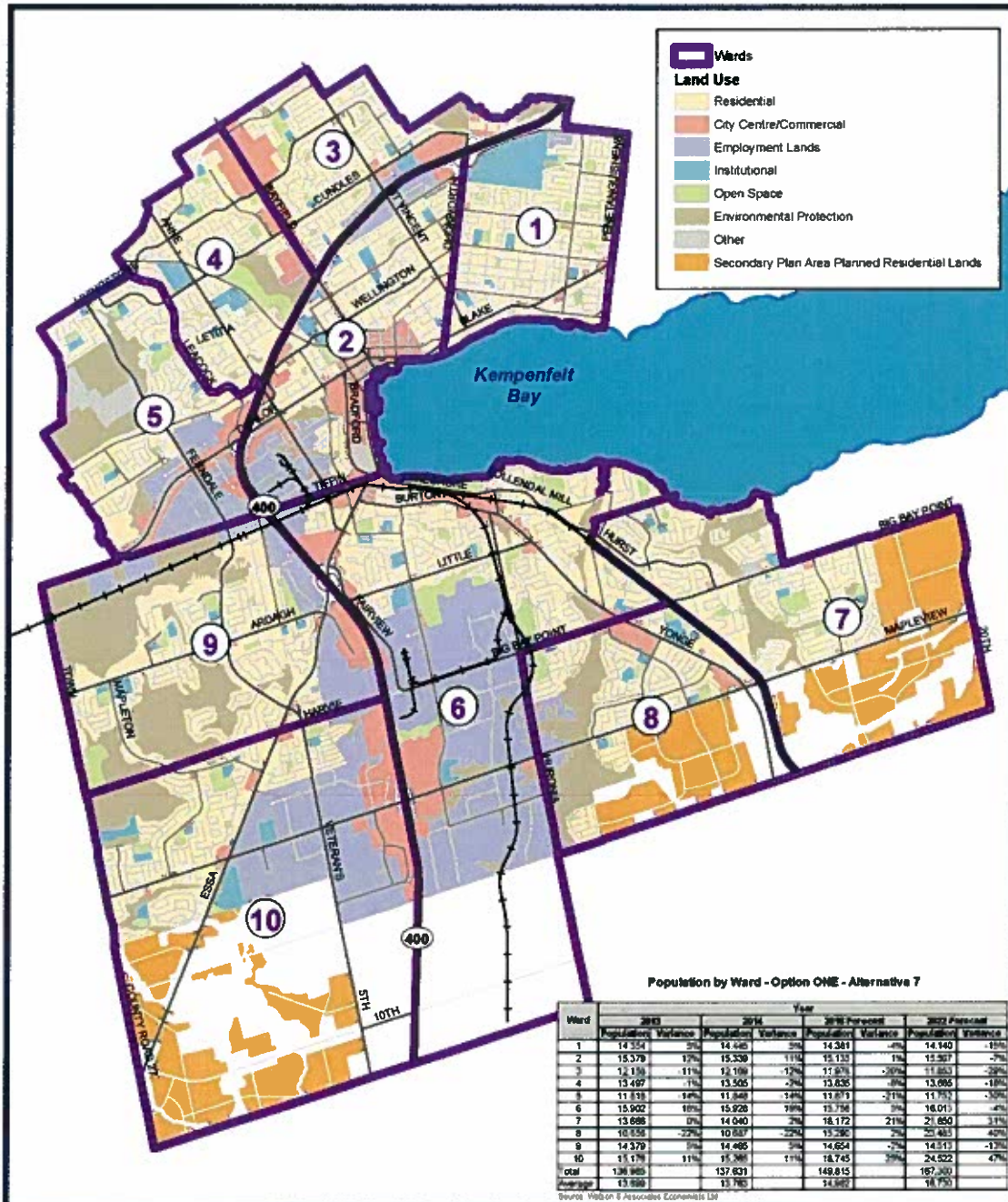
Source: Watson & Associates Economists Ltd. and Dr. Robert J. Williams
Excludes Census undercount of approximately 4%

Summary Assessment Option One – Alternative 6

Principle	Evaluation	Comment
Rep by Pop	No	Four wards optimal, one at limit of range.
Pop & Electoral Trends	No	Three wards optimal 2018 and one in 2022; two at limit of range 2018, five outside range in 2022.
Communication & Accessibility	Yes	Hwy 400, GO railway line, Bayfield, Tiffin used as dividers. Ward 4-5 boundary unconventional.
Geographical and Topographical Features	Yes	Major natural boundaries respected in ward boundaries.
Community of Interests	Mixed	Ward 1-2, 4-5 boundaries divide similar neighbourhoods. Others good.
Effective Representation	No	Wards 7-8-10 large populations, large areas. Population imbalances dilute votes of many electors.

Source: Watson & Associates Economists Ltd. and Dr. Robert J. Williams

Alternative 7 to the Recommended Option:



In association with:
Dr. Robert J. Williams



**CITY OF BARRIE
OPTION ONE - ALTERNATIVE 7
WARD STRUCTURE**

2013 Ward Boundary Review

Alternative 7 to the Recommended Option:

Revisions to Recommended Option

- Boundary between Wards 1 and 2 moves east to Duckworth Street
- Boundary between Ward 2 and 6 moves north to Tiffin Street
- Boundary between Wards 4 and 5 becomes Leacock Drive
- Boundary between Wards 5 and 9 moved north to Tiffin Street
- Boundary between Wards 6 and 8 follows Huronia Road to Big Bay Point to Hurst Drive, then along Hurst Drive north westerly to Cox Mill to Dock Road and from Dock Road to the Lake (reducing Wards 7 and Ward 8)

**Alternative 7 - Population Distribution by Ward
Estimates for 2014 and 2018 Forecast**

Ward	2014 (Estimate)	Variance	2018 (Forecast)	Variance
Ward 1	14,445	5%	14,381	-4%
Ward 2	15,339	11%	15,133	1%
Ward 3	12,109	-12%	11,978	-20%
Ward 4	13,505	-2%	13,835	-8%
Ward 5	11,848	-14%	11,871	-21%
Ward 6	15,928	16%	15,756	5%
Ward 7	14,040	2%	18,172	21%
Ward 8	10,687	-22%	15,290	2%
Ward 9	14,465	5%	14,654	-2%
Ward 10	15,265	11%	18,745	25%
Average	13,763		14,982	

Source: Watson & Associates Economists Ltd. and Dr. Robert J. Williams
Excludes Census undercount of approximately 4%

Summary Assessment Option One – Alternative 7

Principle	Evaluation	Comment
Rep by Pop	Yes	Four wards optimal, all within range.
Pop & Electoral Trends	No	Five wards optimal 2018 and one in 2022; one at limit of range 2018 , five outside range in 2022.
Communication & Accessibility	Yes	Hwy 400, GO railway line, Bayfield, Tiffin used as dividers. Ward 4-5 boundary unconventional.
Geographical and Topographical Features	Yes	Major natural boundaries respected in ward boundaries.
Community of Interests	Mixed	Ward 1-2, 4-5 boundaries divide similar neighbourhoods. Others good.
Effective Representation	No	Wards 7-8-10 large populations, large areas. Population imbalances dilute votes of many electors.

Source: Watson & Associates Economists Ltd. and Dr. Robert J. Williams