

# Fiscal Impact Study

Lakeport Beach

Township of Alnwick/Haldimand, Northumberland County

November 2023



# **Fiscal Impact Study**

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Township of Alnwick/Haldimand, Northumberland County

Prepared for:

Landlab



Keleher Planning & Economic Consulting Inc.
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Milton ON, L9T 0L8

November 2023

### **EXECUTIVE SUMMARY**

Keleher Planning & Economic Consulting Inc. (KPEC) was retained by Landlab to review the fiscal impacts from the development proposal known as Lakeport Beach, in the Township of Alnwick/Haldimand, in the County of Northumberland.

### **Fiscal Impacts to Township**

Comparing the incremental annual revenues with incremental annual expenditures resulting from development at build-out, depending on the development scenario, results in an annual fiscal surplus for the Township of \$484,600 to \$488,700, or \$280-\$296 per capita.

This estimate is based on the following estimated incremental annual revenues and expenditures related to the development at build-out, depending on the development scenario:

- Annual property tax revenues to the Township of \$1.7-\$1.8 million
- Annual non-tax revenues of \$83,000 to \$88,800
- Annual operating costs for community services of \$1.0-\$1.1 million
- Annual operating costs and lifecycle costs for development-related and communitywide growth-related installed infrastructure of \$277,300 to \$289,600.

### **Fiscal Impacts to County**

Comparing the incremental annual revenues with incremental annual expenditures resulting from development at build-out, depending on the development scenario, results in an annual fiscal surplus for the County of \$542,900 to \$570,100, or \$323-\$348 per capita.

This estimate is based on the following estimated incremental annual revenues and expenditures related to the development at build-out, depending on the development scenario:

- Annual property tax revenues to the County of \$1.5-\$1.6 million
- Annual non-tax revenues of \$38,800 to \$41,400
- Annual operating costs for community services of \$853,100 to \$909,200
- Annual operating costs and lifecycle costs for development-related and communitywide growth-related installed infrastructure of \$73,900 to \$77,900.

For comparison purposes, the study also reviews the estimated fiscal impact to the County and Township of the lower-density estate lot scenario. It is estimated that the estate lot scenario will generate significantly worse fiscal results for the Township and County, as summarized in the figure below.

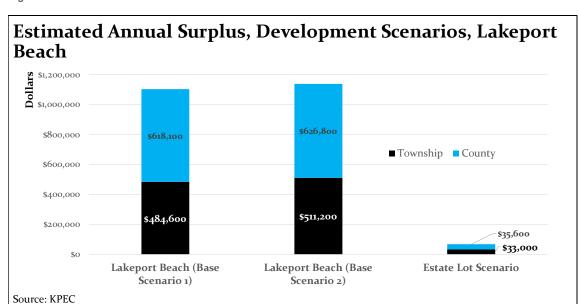


Figure ES-1

### **Operating and Lifecycle Costs**

Lakeport Beach is estimated to contribute roughly 26% of the County's current annual lifecycle funding requirements for planned new growth-infrastructure.

The water and wastewater system constructed for Lakeport Beach will be a communal system, with installation costs funded entirely by the developer. Once in operation, only the users of the system will be responsible for funding the operation, maintenance and replacement costs, with no costs accruing to the Township or County.

Based on the Fiscal Impact Study done in November 2021 for Lakeport Beach, which relied on the same underlying water/wastewater system, the annual operating and lifecycle costs (in 2019\$ as per the November 2021 report) for water and wastewater infrastructure installed is estimated to be \$826,100.

When these annual costs of \$826,100 are divided by the number of dwelling units in the Lakeport Beach plan, the costs per unit amount to approximately \$1,033 per year. This means that the average monthly water/sewer bill for each household in the Lakeport Beach development will be approximately \$86 per month.

### **Additional Revenue Implications**

Based on the findings of the development generating an annual surplus for the Township and County at build-out, the estimated surplus could be used to mitigate future property tax increases, increase contributions to a tax rate stabilization reserve fund, expand municipal services, fund backlogged state of good repair works, or some combination thereof.

### **Summary of Economic Benefits**

It is estimated that the construction of Lakeport Beach will generate substantial economic benefits for the Township and County, including nearly 2,100 person-years of employment, including \$97 million in wages for those employed in the construction of the development, with an overall economic impact of \$429 million in Gross Output and \$205 million in GDP.

The construction sector is the largest employment sector in the Township, employing 13.4% of Township residents as of the 2021 Census. The Lakeport Beach project would thus positively impact the largest job-creating sector in Alnwick/Haldimand. Comparatively, the sectors of agriculture, forestry, fishing and hunting together provide only 4% of the jobs held by Township residents.

Once completed, it is estimated that the non-residential space would accommodate between 72 to 243 jobs, and the residents of Lakeport Beach are expected to spend \$34-\$38 million annually in local stores, businesses, and service providers.

Figure ES- 2

Type of Economic Benefit	Estimated Benefit
Construction Jobs	2,080 person-years of employment
Construction Income	\$97 million
Gross Output	\$429 million
Gross Domestic Product (GDP)	\$205 million
Permanent Jobs	72-243 jobs
Annual Retail Spending	\$34.0 million to \$37.5 million

## Other Benefits – Diversifying the Township and County's Aging Population

The share of older population in the County and Township has continued to increase over the 2016-2021 period, and the Township's share of 56% of adults over the age of 45 is significantly higher than the Ontario-wide average of 45.6%. An older and aging

population makes it difficult to fill key community positions (doctors, nurses) due to the disproportionate portion of the County's residents being above typical working age.



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### 1. INTRODUCTION

Keleher Planning & Economic Consulting Inc. (KPEC) was retained by Landlab to model and study the fiscal impacts of a proposed development on lands in the Township of Alnwick/Haldimand, in Northumberland County, on the finances of the Township and County.

### 1.1. Subject Site

The 200-acre subject site is located in the Township of Alnwick/Haldimand, in Northumberland County.

Figure 1



### 1.2. Overview of Development

The proposed development would, depending on the development scenario, include either 762 residential dwelling units and 43,325 square feet of commercial uses (Scenario 1), or 722 residential units and 145,701 square feet of non-residential uses,



including 9,200 square feet of commercial uses and 136,501 square feet of hotel space (Scenario 2). It is estimated that the commercia/hotel space in the two scenarios would generate between 72 and 243 jobs.

Based on projected future average household sizes for new dwelling units as estimated in Northumberland County's 2020 Development Charge Background Study, the estimated population in the new dwelling units is estimated to range between 1,503 persons (Scenario 2) and 1,566 persons (Scenario 1).

In both scenarios, the range of residential units includes a mix of single-detached units, senior cottages (detached and attached), townhomes, and apartment units.

Figure 2

		Scenario 1			Scenario 2	
			Estimated			Estimated
Residential Units	Units	PPU	Population	Units	PPU	Population
Single-Detached Units	209	2.589	541	209	2.589	541
Seniors Housing Units	47	2.022	95	47	2.022	95
Semi-Detached / Townhomes	298	2.022	603	298	2.022	603
Apartments	208	1.573	327	168	1.573	264
Total	762		1,566	722		1,503
			Jobs			Jobs
Non-Residential Uses	GFA (m2)	GFA (ft2)	(600sf/job)	GFA (m2)	GFA (ft2)	(600sf/job)
Retail	4,025	43,325	72	855	9,200	15
Hotel	-	-	-	12,681	136,501	228
Total	4,025	43,325	72	13,536	145,701	243

### 1.3. Approach to the Study

This fiscal impact study includes an analysis of the following elements:

- Cost and timing of local municipal capital infrastructure required to service the proposed development;
- Assessment of the DC eligibility of capital infrastructure needs;
- Calculation of the development charges payable on the proposed development;
- Estimation of the projected incremental assessment value and associated incremental property tax and non-tax revenues that would be generated;



- Estimation of the incremental municipal operating costs, which may include an estimate of lifecycle costs associated with installed infrastructure, and other growth-related needs;
- Calculation of the expected annual marginal fiscal surplus or deficit generated by development and put the results into context for the Township and County's finances.



### 2. CAPITAL WORKS AND FUNDING SOURCES

This section of the report provides analysis of the identified capital needs associated with the proposed development, assesses whether the works are local works or eligible for recovery from development charges, and estimates the potential development charge revenues generated by the development to fund DC eligible capital needs.

### 2.1. Capital Works

#### 2.1.1. Water and Wastewater

The proposal includes plans for communal servicing, including an on-site water treatment system, and a sanitary sewer system based on either surface disposal or subsurface disposal.

All capital costs will be the responsibility of the developer and all associated operating and lifecycle costs will be the responsibility of the property owners within the development. In total, the capital costs are estimated to range between \$19 million and \$29 million, depending on the wastewater servicing scenario.

Figure 3

<b>Estimated Capital Cost of On-Site Serv</b>	vicing			
		Cost	Rang	je
Water		Low		High
Water Treatment System	\$	3,120,000	\$	3,720,000
Water Reservoir and Booster Pumping Station	\$	3,600,000	\$	4,800,000
Watermain	\$	1,200,000	\$	1,800,000
Inlet Structure	\$	1,200,000	\$	1,800,000
Other (Site Preparation, etc.)	\$ \$ \$	600,000	\$	1,200,000
Subtotal Water	\$	9,720,000	\$	13,320,000
Wastewater (Scenario 1 - Surface Disposal)				
Sanitary Collection System	<del></del> \$	1,200,000	\$	1,800,000
Flow Equalization Tank and Treatment System	\$	7,920,000	\$	9,120,000
Forcemain and Outlet Structure	\$	1,200,000	\$	1,800,000
Other (Site Preparation, etc.)	\$ <u>\$</u> \$	600,000	\$	1,200,000
Subtotal Wastewater (Scenario 1)	\$	10,920,000	\$	13,920,000
Wastewater (Scenario 2 - Subsurface Disposal)				
Sanitary Collection System	\$	6,000,000	\$	9,600,000
Flow Equalization Tank and Treatment System	\$	1,200,000	\$	1,800,000
Forcemain and Outlet Structure	\$	1,800,000	\$	3,000,000
Other (Site Preparation, etc.)	\$ \$ \$	600,000	\$	1,200,000
Subtotal Wastewater (Scenario 1)	\$	9,600,000	\$	15,600,000
Total Costs - W&WW - Scenario 1	\$	20,640,000	\$	27,240,000
Total Costs - W&WW - Scenario 2	\$	19,320,000	\$	28,920,000
Source: WSP Canada				



The water system would take water directly from Lake Ontario (surface water), and then treat it via a communal water treatment plant with intake from Lake Ontario and distributed to users via a communal distribution network. The wastewater system will be a stand-alone system with no connections to nearby wastewater systems.

There are two options for the wastewater system – Scenario 1 would involve surface disposal, which would allow for a phased construction of the treatment plant as new homes are built. Scenario 2 would involve subsurface disposal, which would require 2 hectares of land for the leaching bed, which would impact the amount of land available on-site for development and other community uses (parks, etc.).

Both the water and wastewater system's capital and operating costs will be borne by Landlab and will result in no costs to the Township or County's existing ratepayers.

#### 2.1.2. Roads

Based on work undertaken by WSP Canada, no changes to the existing road network are recommended, even with the addition of site-generated traffic on area roads. The development will include internal roads to be built by the developer, with operating and maintenance costs funded by property owners within Lakeport Beach. In addition, the development will require construction of a 5.0-kilometre road segment to be assumed by the Township (or 10.0 lane kms). Like the roads in the development, the 5.0-km road segment will be constructed by the developer, and for the purposes of this analysis assumed to be operated and maintained by the Township.

### 2.2. Capital Revenues

### 2.2.1. Development Charges – Township of Alnwick/Haldimand

Based on the Township's DC rates in effect as of late 2023, the development would generate \$7.6 to \$7.9 million in DC revenues for the Township, though the Water DC rates may be exempted if the development does not utilize municipal water services.



Figure 4

				Scena	ario	1						Scen	ario	2		
	/	-Detached Semi-	_					Tatal		gle-Detached / Semi-	_					Tatal
Units	De	tached 256	- 10	ownhouse 298	-	Apartment 208		Total 762		Detached 256		ownhouse 298	,	Apartment 168		Total 722
OTILIS		230		250		200		702		230		250		100		722
DC Rates by Service	Single	-Detached	Т	ownhouse	ļ	Apartment										
Emergency Measures	\$	2.03	\$	2.03	\$	2.03	•									
Fire Services	\$	1,987.91	\$	1,987.91	\$	1,987.91										
General Government	\$	507.22	\$	507.22	\$	507.22										
Indoor Recreation	\$	1,140.90	\$	1,140.90	\$	1,140.90										
Library	\$	254.10	\$	254.10	\$	254.10										
Other Transportation	\$	1,547.06	\$	1,547.06	\$	1,547.06										
Roads	\$	4,725.95	\$	4,725.95	\$	4,725.95										
Water	\$	31.64	\$	31.64	\$	31.64										
Cemeteries	\$	9.19	\$	9.19	\$	9.19										
Total Town-Wide	\$ 1	10,206.00	\$	10,206.00	\$	10,206.00										
DC Revenues by Service		-Detached		ownhouse		Apartment		Total		gle-Detached		ownhouse		Apartment		Total
Emergency Measures	\$	520	\$	605	\$	422	\$	1,547	\$	520	\$	605	\$	341	\$	1,466
Fire Services	\$	508,905	\$	592,397	\$	413,485	\$	1,514,787	\$	508,905	\$	592,397	\$	333,969	\$	1,435,271
General Government	\$	129,848	\$	151,152	\$	105,502	\$	386,502	\$	129,848	\$	151,152	\$	85,213	\$	366,213
Indoor Recreation	\$	292,070	\$	339,988	\$	237,307	\$	869,366	\$	292,070	\$	339,988	\$	191,671	\$	823,730
Library	\$	65,050	\$		\$	52,853	\$	193,624	\$	65,050	\$	75,722	\$	42,689	\$	183,460
Other Transportation	\$ \$ 1	396,047 1,209,843	\$	461,024 1,408,333	\$	321,788 982,998	\$	1,178,860	\$	396,047	\$	461,024	\$	259,906 793,960	\$	1,116,977
Roads Water	\$ .	8,100	\$	9,429	\$ \$	6,581	\$	3,601,174 24,110	\$	1,209,843 8,100	\$ \$	1,408,333 9,429	\$	5,316	<b>\$</b>	3,412,136 22,84
vvater Cemeteries	\$	2,353	\$	2,739	\$	1,912	\$ \$	7,003	Þ	2,353	\$	2,739	\$	1,544	<b></b>	6,635
Total Town-Wide		2,333 2,612,736	\$	3,041,388	\$	2,122,848	\$	7,776,972	<u>\$</u>	2,612,736	\$	3,041,388	\$	1,714,608	\$	7,368,732
Non-Residential	GFA:			43,325					GFA	:		145,701				
	DC Ra	ite:	\$	1.68					DC I	Rate:	\$	1.68				
	DC Re	venues:	\$	72,786					DC	Revenues:	\$	244,777				

### 2.2.2. Development Charges - Northumberland County

Based on the County's DC rates as effective January 1, 2023, the proposed development would generate \$1.9 to \$2.0 million in DC revenues for the County, which can be used to build community infrastructure required by the subject development, and includes \$1.3 million for roads, \$214,000 to \$225,000 for Community Housing (though this will be ineligible upon the County's next DC by-law as per Bill 23), \$181,000 to \$183,000 for Paramedic Services, among other revenues.



### Figure 5

Estimate of DC Revenues, La	keport	Beach, N	lor	thumberla	nd	County							
				Scena	ario	1				Scena	ario	2	
	Single	e-Detached	-	Townhouse		Apartment	Total	Single	e-Detached	Townhouse		Apartment	Total
Units		256		298		208	762		256	298		168	722
						Apartment	Apartment						
DC Rates by Service	Single	e-Detached	-	Townhouse		(2BR+)	BACH+1BR)						
Roads and Related	\$	2,100	\$	1,640	\$	1,394	\$ 1,061						
County-Wide Studies	\$	45	\$	35	\$	28	\$ 21						
Area-Specific Studies	\$	1	\$	241	\$	181	\$ 138						
Homes for the Aged	\$	309	\$	74	\$	-	\$ -						
Paramedic Services	\$	95	\$	494	\$	57	\$ 43						
Community Housing	\$	632	\$	29	\$	263	\$ 200						
Waste Diversion - Facilities	\$	37	\$	55	\$	23	\$ 17						
Waste Diversion - Curbside Collection	\$	70	\$	1	\$	42	\$ 32						
Total Township DC Rates	\$	3,289	\$	2,569	\$	1,988	\$ 1,512						
DC Revenues by Service	Sinal	e-Detached	-	Townhouse		Apartment	Total						
Roads and Related	\$	537,600	\$	488,720	\$	289,952	\$ 1,316,272	\$	537,600	\$ 488,720	\$	234,192	\$ 1,260,512
County-Wide Studies	\$	11,520	\$	10,430	\$	5,824	\$ 27,774	\$	11,520	\$ 10,430	\$	4,704	26,654
Area-Specific Studies	\$	256	\$	71,818	\$	37,648	\$ 109,722	\$	256	\$ 71,818	\$	30,408	\$ 102,482
Homes for the Aged	\$	79,104	\$	22,052	\$	· -	\$ 101,156	\$	79,104	\$ 22,052	\$	· -	\$ 101,156
Paramedic Services	\$	24,320	\$	147,212	\$	11,856	\$ 183,388	\$	24,320	\$ 147,212	\$	9,576	\$ 181,108
Community Housing	\$	161,792	\$	8,642	\$	54,704	\$ 225,138	\$	161,792	\$ 8,642	\$	44,184	\$ 214,618
Waste Diversion - Facilities	\$	9,472	\$	16,390	\$	4,784	\$ 30,646	\$	9,472	\$ 16,390	\$	3,864	\$ 29,726
Waste Diversion - Curbside Collection	\$	17,920	\$	298	\$	8,736	\$ 26,954	\$	17,920	\$ 298	\$	7,056	\$ 25,274
Total Town-Wide DC Revenues	\$	841,984	\$	765,562	\$	413,504	\$ 2,021,050	\$	841,984	\$ 765,562	\$	333,984	\$ 1,941,530
Non-Residential	GFA:			43,325				GFA:		145.701			
Trestaction	DC Ra	te:	\$	1.87				DC Rai	te:	\$ 1.87			
		venues:	\$	81,018					venues:	\$ 272,460			
Total DC Revenues							\$ 2,102,068						\$ 2,213,990
Source: Town of BWG, DC Rates Effective 3	January 1,	2023											



# 3. ON-GOING INCREMENTAL REVENUES AND EXPENDITURES

This section of the report provides an overview of modelling that estimates the incremental annual revenues and costs associated with development of the subject lands, including increased property tax revenue, non-tax revenues, operating costs, and lifecycle costs associated with installed infrastructure.

### 3.1. On-Going Revenues

### 3.1.1. Property Taxes

Based on the Town's 2021 property tax rates (so as to be consistent with the most recent available version of the Town's Financial Information Return data), it is estimated that the proposed development would generate \$311 million to \$318 million in assessment value, and approximately \$3.7 million to \$3.8 million per year in annual property taxes for the Township, County and education, combined.

Figure 6

				Scenario 1						Scenario 2		
			Estin	mated Per Unit		Estimated			Esti	mated Per Unit		Estimated
Residential Units	Unit	S	Asse	essment Value	Ass	essment Value		Units	Ass	essment Value	Ass	essment Valu
Single-Detached Units		209	\$	464,000	\$	96,976,000		209	\$	464,000	\$	96,976,000
Seniors Housing Units		47	\$	464,000		21,808,000		47	\$	464,000	\$	21,808,000
Semi-Detached / Townhomes		298	\$	464,000	\$	138,272,000		298	\$	464,000	\$	138,272,000
Apartments		208	\$	230,000	\$	47,840,000	_	168	\$	230,000	\$	38,640,000
Total		762			\$	304,896,000		722			\$	295,696,000
	Residen	tial Tax I	Rate	& Revenues			R	esidential Tax	Rate	& Revenues		
			P	Annual Tax					-	Annual Tax		
	Tax Rate	(2021)		Revenues			Tax	Rate (2021)		Revenues		
Township	0.54	16385%	\$	1,665,906				0.546385%	\$	1,615,639		
County	0.47	78717%	\$	1,459,589				0.478717%	\$	1,415,547		
Education	0.15	3000%	\$	466,491				0.153000%	\$	452,415		
Total	1.17	78102%	\$	3,591,986				1.178102%	\$	3,483,600		
Non-Residential	_											
GFA		43,325						145,701				
Assessment per SF		150.00					\$	150.00				
Estimated Assessment Value	\$ 6,4	98,792					\$	21,855,109				
Commercial Tax Rate (CT/Township)		9577%						0.819577%				
Commercial Tax Rate (CT/County)		8076%						0.718076%				
Estimated Non-Res Tax Revenues	Township		\$	53,263					\$	179,119		
	County		\$	46,666					\$	156,936		
Total Property Tax Revenue												
Township			\$	1,719,169					\$	1,794,758		
County			\$	1,506,255					\$	1,572,483		

Over a 10-year period, assuming that property taxes increase at-pace with inflation, the total tax revenue generated for the Township and County would be \$17.1-\$17.9 million,



and \$15.0-\$15.7 million, respectively. Over a 20-year period, the Township would receive approximately \$34.3-\$35.9 million, while the County would receive \$30.1-\$31.5 million.

### 3.1.2. Non-Tax Revenues (Township and County)

Based on data on current annual non-tax revenues from Township/County residents and businesses and assumed growth factors that attempt to proxy the extent to which existing per capita revenues can be expected to increase proportionately or increase slower or faster due to growth, it is estimated that the development would generate approximately \$51 per capita for the Township and \$24 per capita for the County in non-tax revenues.

Figure 7

Estimated Annual Increm from Lakeport Beach	enta	l Non-Tax	k F	Revenues (	Generated fo	r T	ownship
	L	icences,		Fines and	Gaming and		
	Per	mits, Rents		Penalties	Casino Revenues		Total
Revenues	\$	322,232	\$	206,137	n.a.	\$	528,369
Less: Building Permit Revenues	\$	7,345	\$		\$ -	\$	7,345
Net Non-Tax Revenues	\$	314,887	\$	206,137	n.a.	\$	521,024
Growth Factor		95%		95%	95%		
Growth-Related Non-Tax Revenues	\$	299,143	\$	195,830	n.a.	\$	494,973
Residential Share		74%		74%	74%		
Residential GR NTR	\$	222,290	\$	145,519	n.a.	\$	367,809
Per Capita	\$	30.74	\$	20.12	n.a.	\$	50.87
Non-Residential Share		26%		26%	26%		
Non-Residential GR NTR	\$	76,853	\$	50,311	n.a.	\$	127,164
Per Employee	\$	30.74	\$	20.12	n.a.	\$	50.87
Source: KPEC based on Financial Info	mation	Return data					



Figure 8

Estimated Annual Incremental From Lakeport Beach	enta	l Non-Tax	k R	Revenues (	Generated fo	r C	ounty
		Licences,		Fines and	Gaming and		
	Pei	mits, Rents		Penalties	Casino Revenues		Total
Revenues	\$	2,639,463	\$	921,002	n.a.	\$	3,560,465
Less: Building Permit Revenues	\$	642,876	\$		\$ -	\$	642,876
Net Non-Tax Revenues	\$	1,996,587	\$	921,002	n.a.	\$	2,917,589
Growth Factor		95%		95%	95%		
Growth-Related Non-Tax Revenues	\$	1,896,758	\$	874,952	n.a.	\$	2,771,710
Residential Share		73%		73%	73%		
Residential GR NTR	\$	1,388,595	\$	640,542	n.a.	\$	2,029,137
Per Capita	\$	16.22	\$	7.48	n.a.	\$	23.71
Non-Residential Share		27%		27%	27%		
Non-Residential GR NTR	\$	508,163	\$	234,410	n.a.	\$	742,572
Per Employee	\$	16.22	\$	7.48	n.a.	\$	23.71
Source: KPEC based on Financial Infor	matio	n Return data					

### 3.1.3. Water/Sewer Rate Revenues

The subject development will not generate water or sewer rate revenues as the development will be on communal on-site services.

### 3.2. Incremental On-Going Expenditures

### 3.2.1. Incremental Per Capita Expenditures

In estimating the impact of the development on the finances of the Township and County's, it is important to estimate the extent to which the additional population will generate needs for additional services and cause the municipalities to incur incremental operating costs.

This modelling is based on the Township and County's 2021 Financial Information Return operating cost data (Schedule 40), broken out into 70 different spending categories, with deductions to annual operating costs to account for amortization expense, external transfers, interest on long-term debt, and revenues generated for each of the 70 categories from user fees and service charges. The outcome of deducting the various adjustments from gross operating expenditures is "net operating expenditures".



Figure 9

		Resid	lentia	l	Non-Residential							
		ownship		County		Township		County				
Scenario 1	_											
Anticipated Incremental Per Capita Increase to Operating Costs	\$	636.24	\$	520.79	\$	613.62	\$	520.79				
Estimated Population/Jobs		1,566				72						
Estimated Incremental Operating Costs	\$	996,271	\$	815,496	\$	44,309	\$	37,606				
Scenario 2	<b>-</b> .											
Anticipated Incremental Per Capita Increase to Operating Costs	\$	636.24	\$	520.79	\$	613.62	\$	520.79				
Estimated Population/Jobs		1,503				243						
Estimated Incremental Operating Costs	\$	956,239	\$	782,728	\$	149,009	\$	126,466				

Each estimate of net operating expenditures is then adjusted for the estimated extent to which the net operating expenditures per capita can be expected to change due to the development of the subject development. For example, certain services are unlikely to require a 1:1 increase with existing service levels, such as municipal government, the Town's planning department, etc., and those have been assumed to grow at 25% of the existing per capita service level, due to the efficiencies anticipated in many municipal services as municipalities grow. In other instances, the existing net operating expenditures per capita are assumed to increase at a near proportionate pace and are assigned a Growth Factor of 95%.

Detailed tables showing the calculations are presented in Appendix A.

### 3.2.2. Direct Incremental Maintenance and Lifecycle Costs of Installed Infrastructure

Based on calculated 2021 Financial Information Return data submitted by the Township to the Ministry of Municipal Affairs and Housing, benchmarks were created to establish assumptions for annual operating costs and lifecycle costs per km of installed infrastructure. The roads required for Lakeport Beach will be internal roads, with only 5.0 km (10.0 lane km) assumed to be the responsibility of the Township. All other roads internal to Lakeport Beach would be maintained through condominium contributions.

At the established benchmarks, each Scenario would see roughly \$35,500 in annual operating costs and \$12,400 in annual lifecycle costs associated with the incremental costs associated with operating and maintaining an additional 10 lane km of road, assuming that the new roadways would be the responsibility of the Township. Even with the additional operating and lifecycle costs, based on the comparison of all



incremental revenues and costs to be incurred or accrued by the Township, as summarized in Chapter 4 of this report, the subject development would still generate a significant annual surplus for the Township.

### 3.2.3. Indirect Incremental Maintenance and Lifecycle Costs of Town-Wide DC Eligible Infrastructure

Based on estimated lifecycle costs associated with broader growth-related infrastructure needs in the County as set out in the County's 2020 DC Study, the fiscal impact model incorporates the subject development's share of these future annual lifecycle costs.

The annual lifecycle costs to the County for all capital works in the 2020 DC Study necessary to fund all on-going costs associated with growth-related infrastructure amounts to \$526,400 per year, of which \$412,200 is attributed to the residential sector, which based on the amount of growth forecast in the 2022 DC Study (within various horizons) amounts to \$45.37 per capita. For the costs attributed to the non-residential sector (\$114,200), the incremental cost increase would amount to \$39.89 per employee.

Figure 10

		Population						
	<u>in I</u>	New Units	Employment					
2020-2029		8,048	2,537					
2020-2031		9,416	2,929					
				Annual Lifecyo	le Contr	ibutions	(Re	sidential)
	Annı	ıal Lifecycle						
	Cont	ribution (DC					P	ALCs per
		Study)	Forecast Period	Res. Share	ALC	Cs		Capita
Roads & Related	\$	420,876	2020-2031	77%	\$ 32	24,075	\$	34.42
Homes for the Aged	\$	25,543	2020-2029	76%		19,413	\$	2.41
Paramedic Services	\$	44,569	2020-2029	76%	\$ 3	33,872	\$	4.21
Community Housing	\$	33,179	2020-2029	100%		33,179	\$	4.12
Waste Diversion	\$ \$ <u>\$</u>	2,214	2020-2029	76%	\$	1,683	\$	0.21
Total	\$	526,381			\$ 41	12,221	\$	45.37
				Annual Lifecycle	Contribu	utions (N		
				5 01		_	P	LCs per
				Res. Share	ALC			Capita
Roads & Related				23%		96,801	\$	33.05
Homes for the Aged				24%		6,130	\$	2.42
Paramedic Services				24%		10,697	\$	4.22
Community Housing Waste Diversion				0%	\$	- F21	\$	- 0.21
				24%	\$	531	\$	0.21
Total					\$ 11	14,160	\$	39.89



The Township's most recent DC background study cannot be found, however, based on the ratio of the Township's DC rates per single-detached unit (\$10,206) to the County's DC rates (\$3,289 per SDU) of 3.1-to-1, this ratio will be applied to provide a rough estimate for purposes of this study.



### 4. CONCLUSIONS

### 4.1. Estimated Net Annual Fiscal Impact

Comparing the incremental annual revenues with incremental annual expenditures resulting from development of Lakeport Beach, at build-out, results in an annual fiscal surplus to the Township of \$484,600 to \$488,700, depending on the scenario, with the per capita impacts ranging from \$280 to \$296 per person/job.

The net annual fiscal surplus to the County ranges from \$618,100 to \$626,800, with the impacts ranging from \$359 to \$377 per person/job.

Figure 11

	Scena	ario 1						Scen	ario 2	)					
Population	1,566						_	1,503	-		•				
Units	762							722							
Employment	72	iobs						243	iobs						
Persons per Unit (Average)	2.05	pers	ons per unit					2.08	pers						
TOWNSHIP OF A LNWICK/ HA LDIMA ND	Resid	entia	ıl	Non-Re	sident	tial		Resid	lentia	ıl	Non-Residential				
Incremental Revenues	Amount	Р	er Capita	Amount	P	er Capita		Amount	P	er Capita		Amount	P	er Capita	
Property Tax Revenues	\$ 1,665,906	\$	1,063.88	\$ 53,263	\$	737.62	\$	1,615,639	\$	1,074.97	\$	179,119	\$	737.62	
Non-Tax Revenues	\$ 79,649	\$	50.87	\$ 3,673	\$	50.87	\$	76,449	\$	50.87	\$	12,352	\$	50.8	
Water / Sewer Rate Revenues	 n.a.		n.a.	 n.a.		n.a.		n.a.		n.a.		n.a.		n.a	
Total Incremental Revenues	\$ 1,745,555	\$	1,114.75	\$ 56,936	\$	788.48	\$	1,692,087	\$	1,080.60	\$	191,471	\$	788.4	
Incremental Expenditures															
Per Capita Operating Costs	\$ 996,271	\$	636.24	\$ 44,309	\$	613.62	\$	956,239			\$	149,009	\$	613.62	
Infrastructure - Operating Costs	\$ 33,968	\$	21.69	\$ 1,566	\$	21.69	\$	30,592	\$	20.35	\$	4,943	\$	20.35	
Infrastructure - Lifecycle Costs	\$ 11,875	\$	7.58	\$ 548	\$	7.58	\$	10,694	\$	7.12	\$	1,728	\$	7.12	
Share of Twp-Wide Infrastructure - Lifecycle Costs	\$ 220,454	\$	140.79	\$ 8,938	\$	123.79	\$	211,596	\$	140.79	\$	30,059	\$	123.79	
Total Incremental Expenditures	\$ 1,262,568	\$	806.30	\$ 55,361	\$	766.68	\$	1,209,121	\$	804.50	\$	185,739	\$	764.88	
Net Annual Fiscal Impact	\$ 482,987	\$	308.45	\$ 1,574	\$	21.80	\$	482,967	\$	276.11	\$	5,733	\$	23.6	
Total Fiscal Impact - Township (Annual)	\$ 484,562	\$	295.81				\$	488,699	\$	279.93					
NORTHUMBERLA ND COUNTY															
Incremental Revenues															
Property Tax Revenues	\$ 1,459,589	\$	932.12	\$ 46,666		646.27	\$	1,415,547	\$	941.84	\$	156,936	\$	646.27	
Non-Tax Revenues	\$ 37,120	\$	23.71	\$ 1,712	\$	23.71	\$	35,628	\$	23.71	\$	5,756	\$	23.7	
Water / Sewer Rate Revenues	 n.a.		n.a.	n.a.		n.a.		n.a.		n.a.		n.a.		n.a	
Total Incremental Revenues	\$ 1,496,709	\$	955.83	\$ 48,378	\$	669.97	\$	1,451,175	\$	926.75	\$	162,693	\$	669.9	
Incremental Expenditures															
Per Capita Operating Costs	\$ 815,496	\$	520.79	\$ 37,606	\$	520.79	\$	782,728	\$	520.79	\$	126,466	\$	520.79	
Infrastructure - Operating Costs	n.a.		n.a.	n.a.		n.a.		n.a.		n.a.		n.a.		n.a	
Infrastructure - Lifecycle Costs	n.a.		n.a.	n.a.		n.a.		n.a.		n.a.		n.a.		n.a	
Share of County-Wide Infrastructure - Lifecycle Costs	\$ 71,044	\$	45.37	\$ 2,881	\$	39.89	\$	68,189	\$	45.37	\$	9,687	\$	39.89	
Total Incremental Expenditures	\$ 886,540	\$	566.16	\$ 40,486	\$	560.68	\$	850,917	\$	566.16	\$	136,153	\$	560.68	
Net Annual Fiscal Impact	\$ 610,169	\$	389.67	\$ 7,892	\$	109.29	\$	600,258	\$	360.59	\$	26,539	\$	109.29	
							\$	626,797		359.03					

As a caveat, the true net annual fiscal impact can vary from the estimates presented in this study, depending on numerous variables that may deviate from the assumptions made in this report, including actual timing of development, infrastructure costs, changes in property tax rates, assessment values, among many other inputs. Therefore, the fiscal impact analysis is best used on a 'directional' basis to give an indication of the



likely orientation of fiscal impact (positive vs. negative) as well as providing a rough indication to decision-makers regarding the potential scale of impact.

While the results summarized in the figure above are the estimated annual incremental revenues and costs that the Township/County would accrue or incur each year from build-out onward, during the development process, the interim fiscal impacts will depend on the pace of development, and the ability of the capital works (both internal and external) to be constructed and put into operation in a timely manner. However, the operating and maintenance costs associated with community services and needed infrastructure will include a variety of 'fixed' costs that will be incurred whether development happens or not, and 'variable' costs that will depend on need generated by persons living in the community.

### 4.2. Context Regarding Scale of Estimated Fiscal Impact

The incremental \$1.8-\$1.9 million in Township revenues represents approximately 18.8%-19.7% of current annual revenues, while the incremental \$1.3-\$1.4 million in annual Township expenditures represents 13.6%-14.2% of current annual expenditures. The annual surplus represents 5.0%-5.3% of both annual Township revenues and expenditures.

The incremental \$1.5-\$1.6 million in County revenues represents 1.2% of annual revenues, while the incremental \$927,000 to \$987,100 in annual County expenditures each represent approximately 0.8%-0.9% of current annual expenditures. The annual surplus represents 0.5% and 0.6% of current annual County revenues and expenditures, respectively.



Figure 12

				Scen	ario 1		Scen	ario 2
TOWNSHIP								
				cremental -		I	ncremental -	
To account to 1 - 2 0/ - 6 E data - 4 1	,	021 4-1		Proposed	Incremental as %		Proposed	Incremental as %
Incremental as % of Existing Annuals		021 Actual		evelopment	of 2021 Actual		Development	of 2021 Actual
Annual Revenues	\$	9,576,710	\$	1,802,491	18.8%		1,883,559	19.7%
Annual Expenditures	\$	9,694,047	\$	1,317,929	13.6%	\$	1,394,859	14.4%
Net Fiscal Impact as % of Existing								
Annuals								
Estimated Annual Net Fiscal Impact			\$	484,562		\$	488,699	
as % of 2021 Revenues				5.1%			5.1%	
as % of 2021 Expenditures				5.0%			5.0%	
COUNTY								
				cremental -		I	ncremental -	
				Proposed	Incremental as %		Proposed	Incremental as %
Incremental as % of Existing Annuals		021 Actual		evelopment	of 2021 Actual		Development	of 2021 Actual
Annual Revenues		127,771,346	\$	1,545,087	1.2%	т.	1,613,868	1.3%
Annual Expenditures	\$	109,246,238	\$	927,026	0.8%	\$	987,071	0.9%
Net Fiscal Impact as % of Existing								
Annuals								
Estimated Annual Net Fiscal Impact			\$	618,060		\$	626,797	
as % of 2021 Revenues				0.5%			0.5%	
as % of 2021 Expenditures				0.6%			0.6%	

### 4.3. Usage of Estimated Annual Fiscal Surplus

Should the proposed development generate an annual surplus, it could be used to mitigate future property tax increases, increase contributions to a tax rate stabilization reserve fund, expand municipal services, fund backlogged state of good repair works, or some combination thereof.

The above fiscal impact does not account for any differential that may result from the capital revenues generated through development charges with the amount of DCs necessary to be spent for municipality-wide growth-related infrastructure needs of the proposed development.

# 4.4. Fulfilling Objectives of County's 2023-2027 Community Strategic Plan

Northumberland County's 2023-2027 Community Strategic Plan ("CSP") provides the principal guidance for the County in aligning day-to-day actions with the County's mission, vision and values, as well as Council's direction and other community priorities. Among the 'pillars' of the CSP and their associated guiding principles, goals and actions are:



- The pillar to "Ignite Economic Opportunity", includes the action to attract talent lead innovative strategies to attract talent that Northumberland's economy requires, particularly in key sectors such as advanced manufacturing, agriculture and health care the Township is in need of population growth and given the advanced average age of Township residents, there is an emerging need for housing suitable for young professionals to settle and occupy professional positions (doctors, nurses, etc.)
- The pillar to "Foster a Thriving Community", includes the action to increase development of affordable housing – the estimated annual fiscal surplus can help the County fund, finance or incentivize the development of affordable housing;
- The pillar to "Propel Sustainable Growth", includes the action to build and maintain infrastructure ensure growth is funded and managed in a way that is sustainable. The estimated net annual fiscal surplus associated with Lakeport Beach will generate annual revenues that exceed annual costs, with the estimated annual surplus enabling the Township and County to expand services without increasing burden on taxpayers, or increasing maintenance activities related to existing infrastructure, particularly that that may be in poor condition.

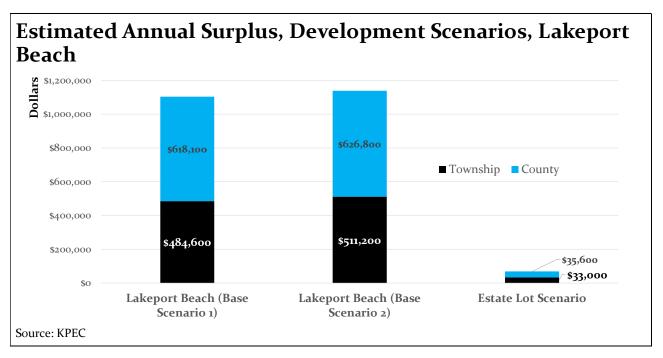
The development, which will consist of a mix of single-detached units, seniors cottages, townhomes and apartments, will improve the diversity of and quantity of housing options in the Township and County, where in the case of the County, consists of 79% single-detached homes, and rental vacancy rates as of 2022 were 1%.

### 4.5. Benefits of Lakeport Beach over Estate Lot Development

For illustration purposes, an alternate analysis was undertaken based on the 68-unit subdivision previously submitted to the Township. It would include 68 single-family homes on large lots, serviced by well and septic rather than communal servicing, and 2.5 km (5.0 lane km) of municipal roads.



Figure 13



The lower-density estate lot scenario will generate significantly worse fiscal results for the Township and County, as property tax revenues will decrease proportionately with the reduced amount of development, while certain costs will remain fixed (or not change proportionately) but spread across fewer residential units available to fund those costs.



### 5. ECONOMIC BENEFITS

Based on the analysis of economic benefits presented in a prior version of this report submitted to the Township and County dated November 22, 2021, the following are the economic benefits that the proposed development would generate for the Township and County, updated to reflect the revised plan (but all in 2021\$), where applicable.

Type of Economic Benefit	Estimated Benefit
Construction Jobs	2,080 person-years of employment
Construction Income	\$97 million
Gross Output	\$429 million
Gross Domestic Product (GDP)	\$205 million
Permanent Jobs	72-243 jobs
Annual Retail Spending	\$34.0 million to \$37.5 million

According to the 2021 Census, among jobs held by Township residents, the key economic sectors in the Township are industries such as Construction (13.4% of jobs), Manufacturing (13.2%), Retail (11.2%), Health Care (10.5%) and Education (6.8%). Comparatively, the sectors of Agriculture, Forestry, Fishing and Hunting combine to provide only 4% of the jobs held by Township residents.

### 5.1. Utilizing Available School Capacity

Based on the local school board's November 2021 EDC Study and pupil yield factors for various unit types, it is estimated that the Lakeport Beach development would generate upwards of:

Public Elementary: 83 pupils;

Catholic Elementary: 32 pupils;

Public Secondary: 45 pupils

Catholic Secondary: 18 pupils.

The number of pupils estimated above is the amount generated through build-out of Scenario 1. The numbers of pupils for Scenario 2 are marginally less for each type of panel (elementary or secondary) and school board.



Figure 14

Estimated Pup Lakeport Beac		eration, E	lementa	ry/Second	lary,
			Pupil Yie	ld Factors	
	_	Elemen		Secon	
			Catholic		Catholic
	_	Public Board	Board	Public Board	Board
Single-Detached	209	0.208	0.059	0.079	0.031
Townhouses	298	0.105	0.056	0.078	0.032
Apartments	208	0.040	0.012	0.023	0.010
Seniors	47	-	-	-	-
	_	E	stimated Pu	pil Generation	
	_	Elemen	tary	Secon	dary
			Catholic		Catholic
	<u>_F</u>	Public Board	Board	Public Board	Board
Single-Detached		43	12	17	6
Townhouses		31	17	23	10
Apartments		8	2	5	2
Seniors					
Total		83	32	45	18
Source: KPEC based Peterborough Victoria Board, EDC Study, (N	a Northum	berland and C			

As detailed in the November 2021 Altus Group report submitted to the Township and County, of the nearest schools serving each panel within each school board, three of the four schools are operating below capacity. In particular, the Public Elementary school was utilizing roughly only half of its full capacity. The nearest Catholic Elementary school (St. Mary's) was above capacity, however the other four elementary schools that direct pupils to St. Mary Catholic SS are below capacity, suggesting that over the long-term boundary adjustment could present itself as an option to alleviate any potential<sup>1</sup> accommodation pressures due to build-out of Lakeport Beach.

### 5.2. Aging Population in Township and County

The November 2021 Altus report noted that the Township and County had significantly older populations than the Ontario-wide average, with implications for the ability of the Township and County to adequately fill key jobs within the community due to a disproportionate portion of the labour force above typical working age.

The below updates the analysis presented in the Altus report with 2021 Census population data by age group that had not been released at the time that report was

<sup>&</sup>lt;sup>1</sup> But in my opinion, unlikely given potential impact that 32 new pupils could have when spread across 10 schooling years (3.2 kids per grade), only realized once the development is built-out.



written. The share of older population in the County and Township has continued to increase over the 2016-2021 period.

Figure 15

% of Population	County	Township	Ontario
Aged 45 or Older			
2001	43.5%	41.1%	
2016	58.0%	55.0%	45.0%
2021	58.3%	56.0%	45.6%

A significant proportion of the population in the County and Township is also already older than working age, with 29.1% of the County aged 65+, compared to 18.5% across Ontario as a whole, each as of the 2021 Census. The Township's share of persons aged 65+ was 23.2% significantly above Provincial average.



### **APPENDIX A:**

Figure A- 1

	laldimand Township								crease Related to				
		Total	Less:	User Rates and	E-townel	Interest on	- Not	Gro	Net Growth- Related	Resi	dential / Non-Re		cation
		Expenditures	Amortization	Service Charges	External Transfers	Long Term Debt	Net Expenditures	Growth Factor	Expenditures	Res Share	Residnetial NGRE	Non-Res Share	Non-Res NGR
INE	General government												
240 250	Governance Corporate Management	\$ 170,890 \$ 444,629	\$ 17,791 \$ 32,786	\$ - \$ -	\$ 28,300 \$ -	\$ - \$ -	\$ 124,799 \$ 411,843	75% 75%	\$ 308,882	74% \$ 74% \$	229,527	26% 26%	\$ 24,04 \$ 79,35
260 1299	Program Support Subtotal	\$ - \$ 615,519	\$ -	\$ -	\$ - \$ 28,300	\$ - \$ -	\$ - \$ 536,642	75%	\$ - \$ 402,482	74% 4		26%	\$ - \$ 103,40
1299		\$ 015,519	\$ 30,377	• -	\$ 20,300	, -	\$ 330,042		\$ 402,402	•	299,000		\$ 103,40
410	Protection services Fire	\$ 1,058,924	\$ 199,346	\$ 105,518	\$ -	\$ 52,315	\$ 701,745	95%	\$ 666,658	74% \$	495,386	26%	\$ 171,27
1420 1421	Police Court Security	\$ 1,178,405 \$ -	\$ - \$ -	\$ 895 \$ -	\$ -	\$ - \$ -	\$ 1,177,510 \$ -	95%	\$ 1,118,635 \$ -	74% 9 74% 9	831,245	26% 26%	\$ 287,38
1422	Prisoner Transportation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	95%	\$ -	74% \$	-	26%	\$ -
1430 1440	Conservation authority Protective inspection and control	\$ 140,974 \$ 49,231	\$ - \$ 7,003	\$ - \$ 8,216	\$ 121,555 \$ 1,969	\$ - \$ -	\$ 19,419 \$ 32,043	100% 95%		74% \$ 74% \$		26% 26%	
1445 1450	Building permit and inspection services	\$ 282,581	\$ -	\$ 7,345	\$ -	\$ - \$ -	\$ 275,236	95%	\$ 261,474	74% 9 74% 9	194,299	26% 26%	\$ 67,17
1460	Emergency measures Provincial Offences Act (POA)	\$ 23,753 \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ 23,753 \$ -	95% 95%	\$ -	74% \$	-	26%	\$ -
1498 1499	Other Subtotal	\$ - \$ 2,733,868	\$ - \$ 206,349	\$ - \$ 121,974	\$ - \$ 123,524	\$ - \$ 52,315	\$ 2,229,706	95%	\$ - \$ 2,119,192	74% 5		26%	\$ - \$ 544,44
1133		\$ 2,733,000	\$ 200,349	\$ 121,574	\$ 123,324	\$ 32,313	\$ 2,229,700		\$ 2,119,192	,	1,374,740		\$ 544,44
611	Transportation services Roads - Paved	\$ 3,811,841	\$ 1,870,047	\$ 18,585	\$ -	\$ 1,618	\$ 1,921,591	95%	\$ 1,825,511	74% \$	1,356,518	26%	\$ 468,99
612 613	Roads - Unpaved Roads - Bridges and Culverts	\$ 267,461 \$ 135,094	\$ 29,793 \$ 54,089	\$ -	\$ -	\$ - \$ -	\$ 237,668 \$ 81,005	95% 95%	\$ 225,785	74% 9 74% 9	167,778	26% 26%	\$ 58,00
614	Roads - Traffic Operations & Roadside	\$ 28,914	\$ -	\$ -	\$ -	\$ -	\$ 28,914	95%	\$ 27,468	74% \$	20,411	26%	\$ 7,05
621 622	Winter Control - Except sidewalks, Parking Lots Winter Control - Sidewalks, Parking Lots Only	\$ 373,609 \$ 811	\$ - \$ 811	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ 373,609 \$ -	95% 95%		74% §		26% 26%	
631 632	Transit - Conventional Transit - Disabled & special needs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ - \$ -	95% 95%	\$ -	74% s	-	26% 26%	\$ -
1640	Parking	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	95% 95%		74% \$		26% 26%	ś -
650 660	Street lighting Air transportation	\$ 26,155 \$ -	\$ 6,808 \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ 19,347 \$ -	95% 95%		74% \$		26% 26%	
698	Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	74%	-	26%	\$ -
1699	Subtotal	\$ 4,643,885	\$ 1,961,548	\$ 18,585	\$ -	\$ 1,618	\$ 2,662,134		\$ 2,529,027	4	1,879,293		\$ 649,73
	Environmental services	= ,											
821 822	Urban storm sewer system Rural storm sewer system	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	95% 95%		74% 9 74% 9		26% 26%	
1840 1850	Solid waste collection Solid waste disposal	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	95% 95%	\$ -	74% 9 74% 9	-	26% 26%	\$ -
860	Waste diversion	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	95%		74% \$	-	26%	\$ -
1898 1899	Other Subtotal	\$ -	\$ - \$ -	<u>\$ -</u>	\$ - \$ -	<u>\$ -</u>	<u>\$ -</u>		<u>\$ -</u> \$ -	74% §		26%	<u>\$</u> -
033		*	•	*	*	•	4		4	,			
010	Health services Public health services	- \$ -	\$ -	\$ -	\$ -	\$ -	\$ -	95%	\$ -	74% \$	-	26%	\$ -
.020 .030	Hospitals Ambulance services	\$ -	\$ -	\$ -	\$ -	\$ - \$ -	\$ -	95% 95%	\$ -	74% 9 74% 9	-	26% 26%	\$ -
035	Ambulance dispatch	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	95%	\$ -	74% \$	-	26%	\$ -
.040 .098	Cemeteries Other	\$ 23,629 \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ 23,629 \$ -	95% 95%	\$ 22,448 \$ -	74% \$ 74% \$	16,681	26% 26%	\$ 5,76
099	Subtotal	\$ 23,629	\$ -	\$ -	\$ -	\$ -	\$ 23,629		\$ 22,448	5			\$ 5,76
	Social and family services												
210 220	General assistance	* - \$ -	\$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	95% 95%		74% 9 74% 9	-	26% 26%	
230	Assistance to aged persons Child care	\$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -	95%	\$ -	74% \$	-	26%	
298 299	Other Subtotal	\$ - \$ -	\$ - \$ -	<u>\$ -</u> \$ -	\$ - \$ -	<u>\$</u> -	<u>\$ -</u> \$ -		\$ - \$ -	74% 9		26%	\$ - \$ -
233		*	•	*	*	•	4		4	,			,
410	Social Housing Public Housing	- s -	\$ -	\$ -	\$ -	\$ -	\$ -	95%	\$ -	74% \$	-	26%	\$ -
420 430	Non-Profit/Cooperative Housing	\$ -	\$ -	\$ -	\$ -	\$ - \$ -	\$ -	95% 95%		74% s		26% 26%	
497	Rent Supplement Programs Other	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ -	95%		74%	-	26%	\$ -
.498 .499	Other Subtotal	\$ - \$ -	\$ - \$ -	<u>\$ -</u>	\$ - \$ -	<u>\$ -</u>	<u>\$ -</u>		\$ - \$ -	74% 9		26%	\$ - \$ -
		*	•	*	,		,			,			
	Recreation and cultural services	_											
610 620	Parks Recreation programs	\$ 158,475	\$ 8,579 \$ -	\$ 1,000 \$ -	\$ - \$ -	\$ - \$ -	\$ 148,896 \$ -	95% 95%		95% s		26% 26%	
631	Rec. Fac Golf Crs, Marina, Ski Hill	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	95%	\$ -	95%	-	26%	\$ -
634 640	Rec. Fac All Other Libraries	\$ 551,326 \$ 317,480	\$ 72,548 \$ 36,312	\$ 75,011 \$ 4,911	\$ - \$ -	\$ - \$ 744	\$ 403,767 \$ 275,513	95% 95%	\$ 383,579 \$ 261,737	95% s		26% 26%	
645	Museums	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	95%	\$ -	95% s		26%	\$ -
.650 .698	Cultural services Other	\$ 3,831 \$ -	\$ -	\$ - \$ -	<u>\$</u> -	\$ - \$ -	\$ 3,831 \$ -	95% 95%	\$ -	95% s	-	26% 26%	\$ -
699	Subtotal	\$ 1,031,112	\$ 117,439		\$ -	\$ 744	\$ 832,007		\$ 790,407	9	750,886		\$ 203,06
	Planning and development	<b>-</b>									_		
810 820	Planning and zoning Commercial and Industrial	\$ 209,469 \$ -	\$ - \$ -	\$ 66,000 \$ -	\$ - \$ -	\$ - \$ -	\$ 143,469 \$ -	75% 75%		74% \$ 74% \$		26% 26%	
830 840	Residential development Agriculture and reforestation	\$ - \$ -	\$ -	\$ -	\$ -	\$ -	\$ - \$ -	75% 75%	\$ -	100% s	-	26% 26%	\$ -
850	Tile drainage/shoreline assistance	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ -	\$ - \$ -	\$ -	75%	\$ -	74%	-	26%	\$ -
.898 .899	Other Subtotal	\$ - \$ 209,469	\$ - \$ -	\$ -	<u>\$ -</u>	\$ - \$ -	\$ - \$ 143,469	75%		74% 9		26%	
					\$ -								\$ 27,6
910	Other	\$ -	<u> - </u>	\$ -	\$ -	\$ -	\$ -	75%	\$ -	74% 5	-	26%	<u>\$ -</u>
910	TOTAL	\$ 9,257,482	\$ 2,335,913	\$ 287,481	\$ 151,824	\$ 54,677	\$ 6,427,587		\$ 5,971,156	4	4,600,645		\$ 1,534,05



Figure A- 2

		Proportionate Increase Related								to Residential / Non-Residential Allocation					
		Total	.ess:	User Rates and	External	Interest on Long Term	– Net	Gro	Net Growth- Related	Resid	Residnetial	Non-Res	ation		
NE		Expenditures	Amortization	Service Charges	Transfers	Debt	Expenditures	Growth Factor	Expenditures	Res Share	NGRE	Share	Non-Res NG		
240	General government Governance	s 373,009	\$ 5,300	\$ -	\$ -	\$ -	\$ 367,709	75%	\$ 275,782	73% \$	201,897	27%	\$ 73,8		
250	Corporate Management	\$ 5,670,675	\$ -	\$ -	\$ -	\$ -	\$ 5,670,675	75%	\$ 4,253,006	73% \$	3,113,578	27%	\$ 1,139,4		
260 299	Program Support Subtotal	\$ 990,889 \$ 7,034,573	\$ 830,401 \$ 835,701	\$ - \$ -	\$ - \$ -	\$ 160,488 \$ 160,488	\$ - \$ 6,038,384		\$ - \$ 4,528,788	73% <u>\$</u>		27%	\$ 1,213,		
	Protection services														
110 120	Fire Police	s -	\$ - \$ -	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	95% 95%	\$ -	73% \$ 73% \$	-	27% 27%			
121	Court Security	\$ 581,527	\$ -	\$ - \$ -	\$ -	\$ -	\$ 581,527	95%	\$ 552,451	73% \$	404,443	27%			
122 130	Prisoner Transportation Conservation authority	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	95% 100%		73% \$ 73% \$		27% 27%			
140	Protective inspection and control	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	95%		73% \$		27%	\$		
145 150	Building permit and inspection services	\$ 346,178	\$ 3,063	\$ 642,876	\$ -	\$ - \$ -	-\$ 299,761	95% -		73% -\$	208,479	27% -			
160	Emergency measures Provincial Offences Act (POA)	\$ 1,226,143 \$ 1,530,211	\$ 4,681 \$ -	\$ 39,337 \$ -	\$ - \$ -	\$ - \$ -	\$ 1,182,125 \$ 1,530,211	95% 95%		73% \$ 73% \$	822,149 1,064,238	27% 27%			
198 199	Other Subtotal	\$ - \$ 3,684,059	\$ - \$ 7,744	\$ - \$ 682,213	\$ - \$ -	<u>\$ -</u>	\$ - \$ 2,994,102	95%	\$ - \$ 2,844,397	73% <u>\$</u>	-	27%	\$ \$ 762		
199		\$ 3,004,039	\$ 7,744	\$ 002,213	<b>&gt;</b> -	<b>&gt;</b> -	\$ 2,994,102		\$ 2,044,397	\$	2,062,351		\$ 702,		
511	Transportation services Roads - Paved	\$ 15,616,558	\$ 5,414,598	\$ 327,300	\$ -	\$ -	\$ 9,874,660	95%	\$ 9,380,927		6,867,670	27%			
512 513	Roads - Unpaved Roads - Bridges and Culverts	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	95% 95%	\$ - \$ -	73% \$ 73% \$	-	27% 27%	\$ \$		
514	Roads - Traffic Operations & Roadside	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	95%	\$ -	73% \$	-	27%	\$		
521 522	Winter Control - Except sidewalks, Parking Lots	\$ 2,028,757	\$ -	\$ -	\$ -	\$ -	\$ 2,028,757	95% 95%		73% \$ 73% \$		27% 27%			
531	Winter Control - Sidewalks, Parking Lots Only Transit - Conventional	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	95%	\$ -	73% \$	-	27%	\$		
532	Transit - Disabled & special needs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	95%	\$ -	73% \$	-	27%	\$		
540 550	Parking Street lighting	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	95% 95%		73% \$ 73% \$		27% 27%			
560	Air transportation	\$ -	\$	\$ -	\$ -	\$ -	\$ -	95%		73% \$		27%	\$		
598 599	Other Subtotal	\$ - \$ 17,645,315	\$ - \$ 5,414,598	\$ - \$ 327,300	\$ - \$ -	<u>\$ -</u> \$ -	\$ - \$ 11,903,417		\$ - \$ 11,308,246	73% <u>\$</u>		27%	\$ \$ 3,029		
	Environmental services														
21	Urban storm sewer system	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	95%		73% \$		27%			
322 340	Rural storm sewer system Solid waste collection	\$ - \$ 5,439,882	\$ - \$ -	\$ - \$ 3,569,548	\$ - \$ -	\$ - \$ -	\$ - \$ 1,870,334	95% 95%		73% \$ 73% \$		27% 27%			
350	Solid waste disposal	\$ 2,085,980	\$ 759,829	\$ 2,164,486	\$ -			95% -		73% -\$		27% -			
860	Waste diversion Other	\$ 3,633,113	\$ 286,332	\$ 1,565,730	\$ -	\$ -	\$ 1,781,051	95% 95%	\$ 1,691,998	73% \$	1,238,693	27%	\$ 453		
398 399	Subtotal	\$ 11,158,975	\$ 1,046,161	\$ 7,299,764	<del>\$ -</del>	\$ 132,748	\$ 2,680,302		\$ 2,546,287	73% <u>\$</u>		27%	\$ 682,		
	Health services														
010	Public health services	\$ 2,534,698	\$ -	\$ -	\$ 2,534,698		<b>\$</b> -	95%		73% \$	-	27%			
)20 )30	Hospitals Ambulance services	\$ - \$ 14,835,862	\$ - \$ 652,616	\$ - \$ 384,479	\$ - \$ -	\$ - \$ 11,333	\$ - \$ 13,787,434	95% 95%		73% \$ 73% \$		27% 27%			
035	Ambulance dispatch	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	95%	\$ -	73% \$	-	27%	\$		
)40 )98	Cemeteries Other	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	95% 95%	\$ - \$ -	73% \$ 73% \$		27% 27%	\$		
)99	Subtotal	\$ 17,370,560	\$ 652,616		\$ 2,534,698				\$ 13,098,062	\$			\$ 3,509		
	Social and family services														
210 220	General assistance Assistance to aged persons	\$ 8,243,565 \$ 18,560,179	\$ 9,653 \$ 120,494	\$ 24,469 \$ 3,203,036	\$ 4,501,110 \$ -		\$ 3,708,333 \$ 15,216,167	95% 95%			2,579,087 10,582,604	27% 27%	\$ 943, \$ 3,872,		
230	Child care	\$ 8,908,361	\$ -		\$ 7,421,692	\$ -	\$ 1,486,319	95%	\$ 1,412,003	73% \$	1,033,711	27%	\$ 378,		
298 299	Other Subtotal	\$ 35,712,105	\$ - \$ 130,147	\$ 3,227,855	\$ - \$ 11,922,802	\$ 20,482	\$ 20,410,819	95%	\$ - \$ 19,390,278	73% <u>\$</u>	14,195,402	27%	\$ 5,194,		
	Social Housing														
110	Public Housing	\$ 9,364,940	\$ 903,747		\$ 3,325,301	\$ -	\$ 5,033,731	95%		73% \$	3,500,880	27%	\$ 1,281		
120 130	Non-Profit/Cooperative Housing Rent Supplement Programs	\$ 2,726,987 \$ 998,589	\$ - \$ -	\$ - \$ -	\$ 2,715,666 \$ 927,862		\$ 11,321 \$ 70,727	95% 95%		73% \$ 73% \$		27% 27%			
197	Other	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	95%	\$ -	73% \$	-	27%	\$		
198 199	Other Subtotal	\$ 13,090,516	\$ - \$ 903,747	\$ 102,161	\$ 6,968,829	\$ -	\$ 5,115,779	95%	\$ 4,859,990	73% <u>\$</u>		27%	\$ 1,302,		
510	Recreation and cultural services Parks	- s -	s -	\$ -	\$ -	s -	\$ -	95%	\$ -	95% \$	-	27%	s		
520	Recreation programs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	95%	\$ -	95% \$	-	27%	\$		
531 534	Rec. Fac Golf Crs, Marina, Ski Hill	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	95% 95%	\$ -	95% \$	-	27%	\$		
540	Rec. Fac All Other Libraries	\$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	95% 95%		95% \$ 95% \$		27% 27%			
545	Museums	\$ -	\$ -	\$ -	\$ -	\$ -	<b>\$</b> -	95%	\$ -	95% \$	-	27%	\$		
550 598	Cultural services Other	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	\$ - \$ -	95% 95%		95% \$ 95% \$	-	27% 27%			
99	Subtotal	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -		\$ -	\$	-		\$		
40	Planning and development										47				
310 320	Planning and zoning Commercial and Industrial	\$ 348,031 \$ 2,563,946		\$ 108,041 \$ 2,058		\$ - \$ -	\$ 239,990 \$ 2,357,920	75% 75%		73% \$ 73% \$		27% 27%			
330	Residential development	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	75%	\$ -	100% \$	-	27%	\$		
340 350	Agriculture and reforestation Tile drainage/shoreline assistance	\$ 638,158 \$ -	\$ 12,496 \$ -	\$ 126,772 \$ -	\$ 8,000 \$ -	\$ - \$ -	\$ 490,890 \$ -	75% 75%		73% \$ 73% \$		27% 27%			
398	Other	\$ -	\$ -	<u> </u>	\$ -	\$ -	\$ -	75% 75%	\$ -	73% \$ 73% \$	-	27%			
399	Subtotal	\$ 3,550,135	\$ 77,044	\$ 236,871	\$ 147,420	\$ -	\$ 3,088,800		\$ 2,316,600	\$	1,695,957		\$ 620		
910	Other	<u>\$</u>	<u>\$</u>	<u>\$</u>	<u> </u>	<u>\$</u> -	<u> </u>	75%	\$ -	73% <u>\$</u>		27%	\$		
10	TOTAL	é 100 340 330	ė 0.007.750	\$ 12,260,643	£ 21 [72 7*0	é 225.051	£ 66 010 027		\$ 60,892,648		44,578,816		\$ 16,313		



Figure A- 3

	Estimated Annu	al Operating Co	sts - Installed	Estimated Annual Lifecycle Costs						
	Operating Cost Benchmark	Units in Plan	Annual Operating Costs	Lifecycle Cost Benchmark	Units in Plan	Annual Operating Costs				
Scenario 1		10.0	+25 524	±4 242	10.0	+42.42				
Roads - Internal	\$3,553	10.0	\$35,534	\$1,242	10.0	\$12,42				
Roads - External	<i>\$ / lane km</i> \$3,553	<i>lane km</i> 0.0	\$0	<i>\$ / lane km</i> \$1,242	<i>lane km</i> 0.0	\$(				
Water Distribution	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.				
Water Treatment	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.				
Sewage Collection	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.				
Sewage Treatment	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.				
Total			\$35,534			\$12,422				
Residential Share	1,566	95.6%	\$33,968	1,566	95.6%	\$11,87				
Non-Residential Share	72	4.4%	\$1,566	72	4.4%					
Scenario 2										
Roads - Internal	\$3,553	10.0	\$35,534	\$1,242	10.0	\$12,422				
Danda Estamal	\$ / lane km	lane km	40	<i>\$   lane km</i>	lane km	÷(				
Roads - External	\$3,553	0.0	\$0	\$1,242	0.0	\$0				
Water Distribution	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.				
Water Treatment	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.				
Sewage Collection	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.				
Sewage Treatment	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.				
Total			\$35,534			\$12,422				
Residential Share	1,503	86.1%	\$30,592	1,503	86.1%	\$10,694				
Non-Residential Share	243	13.9%	\$4,943	243	13.9%	1 -/				