Effluent Quality Criteria

- Are determined based on the assimilative capacity of the receiving stream and by MOE policies.
- Are site-specific.
- Effluent quality criteria requirements (expressed as loadings or concentrations) are incorporated in the Environmental Compliance Approval.
- May be set for: phosphorous, nitrogen, suspended solids, Biochemical Oxygen Demand (BOD), etc.,

Receivers and Assimilative Capacity

- Can be rivers, lakes, dry ditches, and land (surface or subsurface).
- Assimilative Capacity Study is a tool to characterize water flow and quality in the receiver and assist in determining the Effluent Quality Criteria (EQC).



Assimilative Capacity

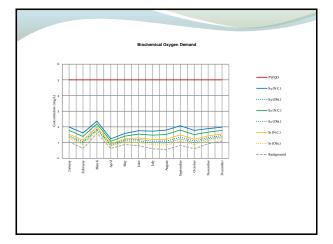
- is an assessment of the ability of a watercourse to resist the effects of a disturbance without impairing water quality.
- Assimilative Capacity Study (ACS) is a tool to determine the extent a potential receiving stream can be used as part of the sewage treatment process.
- ACS generally include:
- Characterization of effluent quality and quantity.
- Characterization of receiving stream water quality and quantity.
- Modelling scenarios of effluent discharge and background conditions.

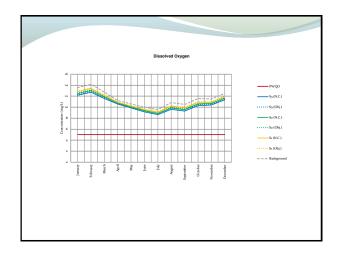
Table 2.4 Estimated Projected Population

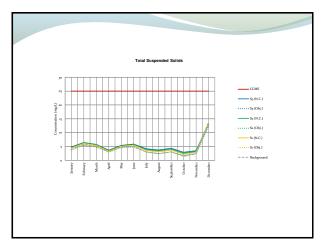
he following population scenarios have been arbitrarily selected and are for comparison purposes only

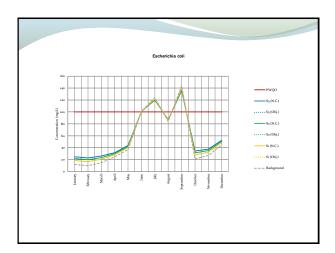
	Urban Development Area		Equivalent Population	
	Incremental	Total	Incremental	Total
ppHa	На	На	People	People
10.+/-	417	417	4280	4280
40	55	472	2200	6480
40	88	560	3520	10000
40	88	648	3500	13500
40	232	880	9300	22800
880	На			
	10 +/- 40 40 40 40	cptha He 10 #/- 417 40 55 40 88 40 88	SPHB Hb Hb 10 4/7 417 417 40 55 472 40 88 560 40 88 564 40 88 548 40 232 880	19 Possie 19.4 19 Possie 10.4 417 417 420 40 55 472 200 40 88 590 3520 40 88 590 3520 40 88 648 3550 40 222 880 9000

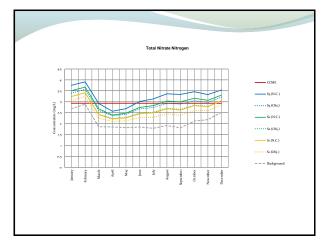
Parameter		
	Desig 1996 MOE	n Values Suggestion
	Treatment	Non
	Objective	Compliance
pH	8.2	7-8.6
Total Suspended Solids (mg/L)	3.0	10
Total Phosphorous (mg/L)	0.1	0.20 (0.15*)
Total Ammonia (mg/L)	0.4	2.0
Total Kjeldahl Nitrogen (mg/L)		3.0
Nitrate Nitrogen (mg/L)	7.6	10
E. Coli (org/100 mL)	100	200 (100*)
Dissolved Oxygen (mg/L)	5 (min)	4 (min)
BODs (mg/L)	3.6	7.5
Temperature	17	8-19

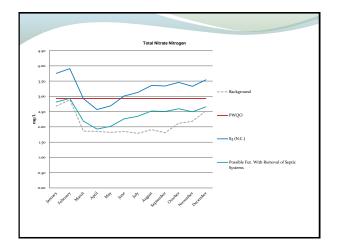


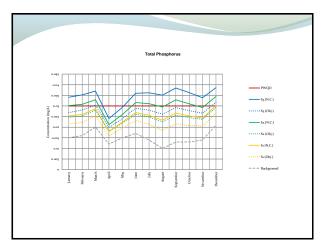








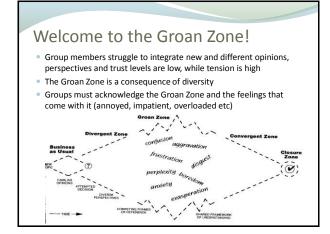


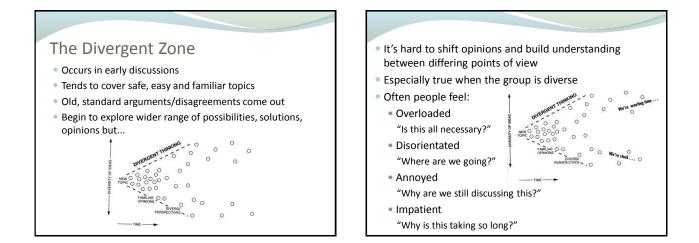


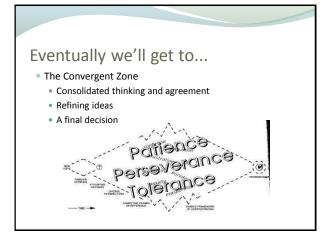
Dealing with Septage

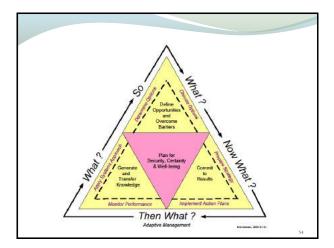
- Septage is raw, untreated waste from septic systems and holding tanks.
- Generally, septage is 30-60x more concentrated (in terms of biochemical oxygen demand and suspended solids) than wastewater.
- Treatment facility requirements:
- Unloading facilities
- Extended aeration facilities
- Sequencing Batch Reactor
- Discharge into WWTP

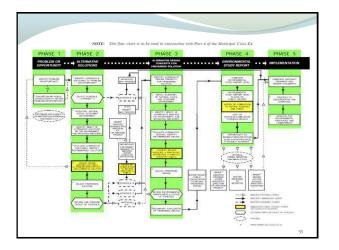


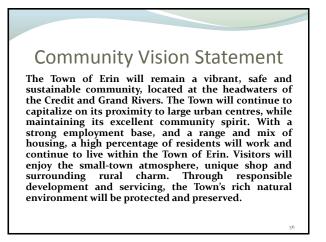












Problem/Opportunity Statement

• Presently, the Town of Erin lacks a long term, comprehensive strategy for the provision of water and wastewater servicing in the villages of Erin and Hillsburgh. The following limitations are associated with the current status of servicing within the Town's urban areas:

Problem/Opportunity Statement

Wastewater

- Vastewater Wastewater is treated exclusively by private, on-site wastewater treatment systems. Within the Built Boundary of the settlement areas (Hillsburgh and Erin Village), private property investment and redevelopment is restrained by increasingly stringent setbacks required for septic systems, small lot sizes and the presence of private wells. Additionally, there are limited facilities in the area accepting septage from private systems for treatment. The settlement trace (Hilfshurch and Frin Village) have been identified
- rrom private systems for treatment. The settlement areas (Hillsburgh and Erin Village) have been identified as areas of modest growth under the Places to Grow Act and by Wellington County population projections. At present, the servicing infrastructure is inadequate to meet future demand to 2035. Lots sized to include septic systems will not allow for projected future development to occur in a manner consistent with the need for smaller, less-expensive homes in the community as identified in the Vision Statement.

Problem/Opportunity Statement

Water

- Partial water servicing in Erin Village and Hillsburgh limits the operational and cost efficiency of the systems and inhibits redevelopment and future development.
- The capacity of the existing system will need to be augmented to address current limitations and the needs of future development.

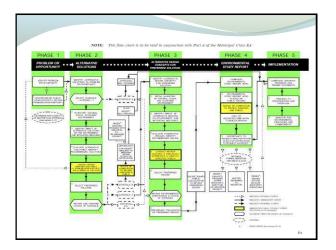
Problem/Opportunity Statement

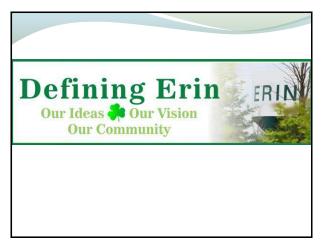
Stormwater Management

• The West Credit River currently shows impacts from urban stormwater drainage, resulting from limited stormwater management infrastructure. Given existing impacts and potential future impacts relating to development, there is a need to assess existing and future stormwater management infrastructure.

Transportation

• Current transportation infrastructure may need upgrades to accommodate future growth.







Purpose of this workshop To provide an overview of the planning strategies that will be evaluated in the SSMP. To provide Council with an overview of municipal wastewater servicing strategies as determined by the assimilative capacity of the West Credit River.

 To explain what decisions must be made by Council on conceptual servicing strategies to allow the SSMP to move forward.

This isn't a money talk

- Before going into an in-depth financial analysis, we need to narrow down from many possible municipal servicing scenarios to a few municipal servicing scenarios, in-line with the vision of the community.
- The decisions that follow this workshop/next Council meeting will determine what municipal servicing strategies are evaluated in detail by Watson & Associates as part of the SSMP.

What the SSMP will do

- Provide information for Council to decide on a course of action – facts, community values, implications of various strategies.
- Provide a tool to use in applying for senior government funding to implement any final solution



- It does not provide detailed information regarding technologies that will be reviewed and evaluated as part of a further Class EA process.
- It does not review the appropriateness of any particular site that may be part of a final solution. This review would be part of the next phase of a Class EA process.
- It does not comment on the appropriateness of any particular planning application. That is subject to a Planning Act process.

The Problem

- Presently, the Town of Erin lacks a long term, comprehensive strategy for the provision of wastewater servicing in the villages of Erin and Hillsburgh.
- The future wastewater servicing strategy will determine future needs related to other infrastructure components:
 - The capacity of the existing water system will need to be augmented to address current limitations and the needs of future development.
 - Need to assess existing and future stormwater management infrastructure.
 - Current transportation infrastructure may need upgrades to accommodate future growth.

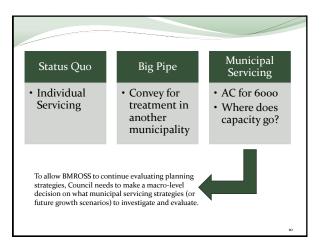
Assimilative Capacity

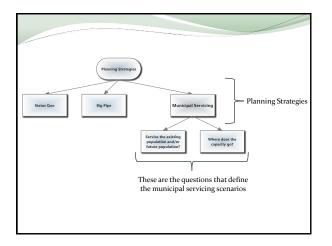
- In February 2013, an initial Assimilative Capacity Study (ACS) was drafted. Following consultation with MOE and CVC it was determined that additional stream monitoring should be completed.
- Additional monitoring was completed in fall of 2013 and this data was used in the calculation of the assimilative capacity.
- At the request of MOE and CVC, a 10% reduction in low flow values was incorporated into the calculations to account for climate change and land use changes.

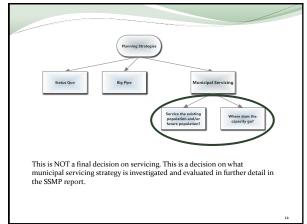
Assimilative Capacity

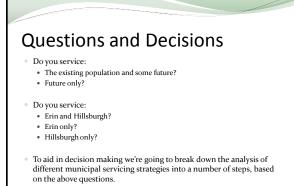
- Phosphorous is considered a key parameter of concern, and based on the effluent criteria, is a limiting factor.
- Given this limiting factor, there is capacity for approximately 6,000 persons.
- ACS will also suggest an outfall closer to Winston Churchill Blvd., where the assimilative capacity of the West Credit River is at its greatest.









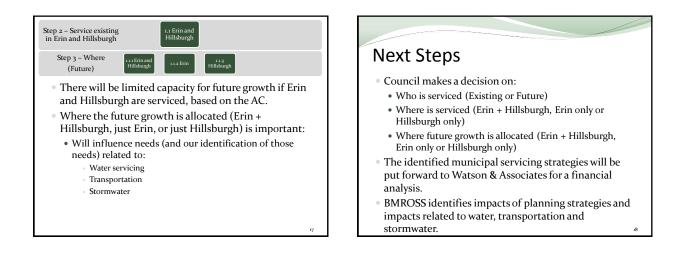


• For each step, the benefits and consequences are evaluated.

			AC = pers	
Step 1 - Who			1. Service Existing + Future	2. Future Only
Step 2 - Where		1.1 Erin and Hillsburgh	1.2 Erin Only	1.3 Hillsburgh Only
Step 3 – Where (Future)	1.1.1 Erin and Hillsburgh	1.1.2 Erin	1.1.3 Hillsburgh	

Step 1 - Who	1. Service Existing + Future		
Does this option	1. Service Existing + Future	2. Future Only	Comments
Create a vibrant and sustainable community	~	×	 Servicing future only will create an inequality in services available to new residents and the existing residents. Servicing future growth only may draw businesses from the cores, impacting their long term sustainability.
Create employment opportunities	~	~	 The availability of servicing may attract and retain businesses, creatin local job opportunities.
Allow for a range and mix of housing (e.g. seniors, starter)	~	~	 Will allow for smaller lots → more likely to have smaller (senior or starter) homes. Will allow for infilling (apartments, condos).
Maintain the small town atmosphere	~	×	 Servicing existing + future limits the ultimate population to 6600. Servicing future only may create a 'have and have not' atmosphere within the community.
Allow for responsible development patterns	~	~	Will allow for compact development Will allow for greater range and mix of housing Will allow for redevelopment and infilling
Allow for responsible servicing	~	×	 Servicing existing + future addresses the existing issues related to septic systems, holding tanks in the cores, setbacks, and septage disposal. Servicing future only does not address existing issues related to septi systems, holding tanks in the cores, and setbacks on small lots. Servicing future only creates inequalities within the community.
Protect and preserve the natural environment	~	×	 Servicing existing - future will eliminate impacts from septic system to the West Credit River. Servicing existing - future reduces the amount of potential greenfield development. Servicing future only will not address existing aging septic systems, which have the potential to impact the West Credit River in both villages.
Meet policy requirements	~	-	 Servicing existing + future is consistent with population and servicing policies. Wellington County OP 11.2.3 (Objectives) b) to deliver an adequate supply of potable water and means of sewage disposal to meet the needs of existing and future residents and businesses;

Step 2 - Where							
	Ex	isting + futu	ire				
Does this option	1.1 Erin and Hillsburgh	1.2 Erin Only	1.3 Hillsburgh Only	Comments			
Create a vibrant and sustainable community	~	×	×	 Servicing only one community (Erin or Hilbburgh) will create two-tiered service level between the communities. Businesson and community services may leave the unserviced community, which will impact the sustainability of the doorstown cont. Unserviced community likely in home restricted ability to redevelop vacant buildings. 			
Create employment opportunities	~	~	✓	The availability of servicing may attract and rotain businesses, creating local job opportunities.			
Allow for a range and mix of housing (e.g. seniors, starter)	~	~	~	 Storektig will allow for multiple ker. 3-more likely to have multiple (uniter or starter) humes. Will allow for influing (appertuncts, condox). Community without servicing is not likely to obtain a butter range and mixed in a list of a start of human gamma and the start of product of a start of human gamma and the start of product of a start of human gamma and an and a start of product of a start of human gamma and the start of product of a start of human gamma and and the communities with the start of the			
Maintain the small town atmosphere	√	~	✓	 Communities will remain small as growth will be limited by the AC. 			
Allow for responsible development patterns	~	×	×	 Servicing both communities will allow for compact development, a greater range and mix of housing, and will allow for ordevelopment and infiling. Community without servicing my have limited development large lots (-1 acro) to accommodate septic systems. Large lots will increase the urban extent of the village, and decrease the overall efficiency of other infrastructure (mode, municipal water). 			
Allow for responsible servicing	~	×	×	 Servicing both communities addresses the existing issue-related to septic systems, holding tanks in the cores, setbacks, and suprage dispoal. Servicing one community does not address existing issues related to septic systems, holding tanks in the cores, and subtacks on small lots currently present in both communities. Servicing one community creates insequalities between the two communities. 			
Protect and preserve the natural environment	~	~	~	Servicing both communities will eliminate impacts from sprice systems to the West Credit Bior. Servicing both communities reduces the ansunt of potential greenfield development. Servicing one community will not address existing aging upits systems in the other community, which have the potential to impact the West Credit Rever.			
Meet policy requirements	~	-	-	 Servicing both communities will meet the population and servicing policies. Wellington County OP n.2.a (Objectives) b) to deliver an adequate supply of potable water and means of sevage disposal to meet the needs of existing and future residents and horizonear. 			



Town of Erin

Financial Discussion Regarding the Settlement & Servicing Master Plan (SSMP)

Watson & Associates Economists Ltd July 9, 2014

Watson

Purpose

□ The Terms of Reference for the SSMP provided:

- "Develop a financial plan specific to all servicing options considered that addresses municipalities debt capacity, long term operating costs and sustainability, sources of funding and impacts on existing Sewer and Water Rates and Development Charges Bylaws;"
- "The Consultant is to confer with the Town's Economic Consultant, Watson and Associates Ltd., in the review of existing Water and Sewer Rate Study, Development Charges Bylaw and the development of financial Plans specific to servicing options being considered."

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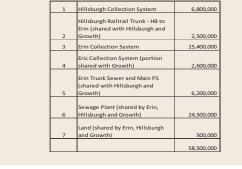
Background

- At this point in the SSMP evaluations, the Town has directed B.M. ROSS to evaluate 3 servicing alternatives (which are variations of implementing a sanitary sewage system for each village and providing for various future growth configurations)
- Sanitary Servicing alternatives would provide for:
 - 1,120 existing properties in Erin
 - 510 existing properties in Hillburgh
 - Growth for 500 residential units

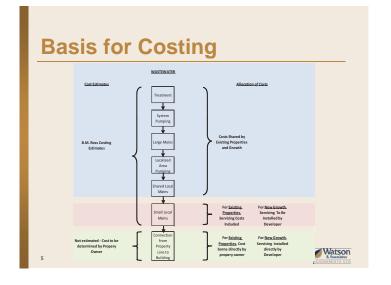
Watson & Associatos

Capital Cost for Wastewater Servicing

Capital Cost shave been developed by B.M. Ross, as follows:



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Allocation of Costs

- Cost have been allocated between Existing properties and new growth
- Distribution of costs based on defining properties on a "single unit equivalent" – thus, higher flow users pay a proportionately higher amount per property
- Following table identifies that 14 properties generate the same needs as 172 single family units

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Single Family Equivalent Properties

Customer	Address	Equivalent	
		Residential	
		Units	
Erin:			
Stanley Park		82	
Town of Erin Centre	14 Boland Drive, Erin	21	
2000/Arena			
Upper Grand District School	14 Boland Drive, Erin	7	
Board-High School			
Loblaws Inc.	134 Main St, Erin	7	
Central Wire	1 Erinville Drive, Erin	7	
Apartment Building	11 Wellington Rd 124, Erin	6	
The Royal Canadian Legion-	12 Dundas St, Erin	6	
Erin			
Upper Grand District School	185 Daniel St, Erin	4	
Board-Public School			
Image Car Wash	2 Erin Park Drive, Erin	4	
The Wellington County Roman	30 Millwood Rd, Erin	3	
Catholic School			
Apartment Building	15 Wellington Rd 124, Erin	3	
Wellington Housing Corp.	14 Centre St, Erin	3	
Wellington Housing Corp.	22 Church Blvd, Erin	3	
Senior's Apartments			
Hillsburgh:			
Erin Twp Non-Profit Housing	15 Spruce St. Hillsburgh	16	
		172	

Wastewater Scenarios Considered

- B.M. Ross has developed servicing scenarios for Erin and Hillsburgh communities, as follows:
 - 1. Service existing Erin & Hillsburgh and provide 250 units growth in each community
 - 2. Service existing Erin & Hillsburgh and provide 500 units growth in Erin (only)
 - 3. Service existing Erin & Hillsburgh and provide 500 units growth in Hillsburgh (only)

Scenario Summary for Wastewater

	Scenarios	Pro	Property Connections			Residential Equivalents		
(Each Scenario Services Existing Properties)		Exisiting	Growth	Total	Exisiting	Growth	Total	
1	Split Growth							
	Erin	1,120	250		1,263	250		
	Hillsburgh	510	250	2,130	525	250	2,28	
2	Growth in Erin							
	Erin	1,120	500		1,263	500		
	Hillsburgh	510		2,130	525	-	2,28	
3	Growth in Hillsburgh							
	Erin	1,120			1,263	-		
	Hillsburgh	510	500	2,130	525	500	2,28	

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Cost Per Unit – Existing vs. Growth (Wastewater)

	Scenario (Each	Scenario Services Existin	ng Properties)
Benefit	1	2	3
	Split Growth	Growth in Erin	Growth in Hillsburgh
Existing	49,430,922	49,824,675	50,462,306
Growth	9,069,078	8,675,325	8,037,694
	9,009,078	6,073,323	6,037,035
	- - · · · · · ·	Scenario Services Existi	
	- - · · · · · ·		
Cost Per Unit Comparison	- - · · · · · ·		ng Properties)
Cost Per Unit Comparison	Scenario (Each	Scenario Services Existi 2	ng Properties) 3

Note: Growth Units do not include localized mains which will be installed by developers at their costs

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Scenarios Considered - Water

- B.M. Ross identified the need for further water projects to service the wastewater servicing scenarios. Some existing properties are not connected to the municipal water system. Based on the prior scenarios:
 - 1. Service 110 existing Erin & 230 Hillsburgh and provide 250 units growth in each community
 - 2. Service existing 110 Erin & 230 Hillsburgh and provide 500 units growth in Erin (only)
 - 3. Service existing 110 Erin & 230 Hillsburgh and provide 500 units growth in Hillsburgh (only)

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Cost Per Unit – Existing vs. Growth (Water)

Allocation of Capital Cost

	Scenario (Each Sc	cenario Services Some Ex	isting Properties)
Benefit	1	2	3
	Split Growth	Growth in Erin	Growth in Hillsburgh
Existing (connected properties)	1,269,360	1,269,360	1,269,360
Existing (unconnected properties)	1,565,200	1,565,200	1,565,200
Growth	3,898,810	2,578,810	2,208,810
Total	6,733,370	5,413,370	5,043,370

Cost Per Unit Comparison

		Scenario (Each Sc	Scenario (Each Scenario Services Some Existing Properties)					
	Benefit	1	2	3				
		Split Growth	Growth in Erin	Growth in Hillsburgh				
	Existing (connected properties)	984	984	984				
	Existing (unconnected properties)	4,550	4,550	4,550				
	Growth	7,798	5,158	4,418				
12	2			Watson				
				ECONOMISTS LYIN				

1

Capital Financing Options

- Municipal Act Part 12
- Municipal Act Local Improvement Regulation
- Development Charges
- ? Developer Over contribution
- ? Grants
- Debt (Infrastructure Ontario)
- Private-Public Partnership (3P)



Town Financing Options - Municipal Act

- Non-growth (i.e. Existing) portion of the costs should be recovered by Part 12 of Municipal Act (using similar approach to s. 221 of the former Act)
- Allows municipality to impose a charge against a specific area – is not appealable to the OMB
- Act allows for various methods of recovery (e.g. per lot, assessment, frontage, area or "any method the Council considers fair") – the Residential Equivalent generally has the greatest acceptance
- Local Improvement is not recommended recovery on a linear frontage charge basis – also not fully cost recoverable and subject to OMB appeal

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Town Financing Options – Development Charges

- Growth portion of the costs would be recovered by area specific DC
- Some municipalities have secured additional contributions or having developers take on an added portion of the costs
- Town should also consider asking Developers to prepay the DC's to offset debenturing needs (impacts discussed later)

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Town Financing Options

- Grants
- Grant funding may be a consideration and would significantly reduce the net cost to benefiting properties
- Unless otherwise stipulated by grant progam, usually grant is shared with both growth related and non-growth costs
- Town should consider asking Developers to prepay the DC's to offset debenturing needs (impacts discussed later)

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Town Financing Options - Private/Public Partnerships

- Often 3P agreements provide for operating contracts combined with capital financing
- Municipalities borrow money at significantly lower rates of interest than the private sector (on average 2.5% - 4%) - Infrastructure Ontario (I.O.) loans are even lower than municipal borrowing rates
- Example Wastewater Cost of \$28,000 per home:
 - 20 yr I.O. Ioan at 3.50% \$1,948/year
 - 20 yr 3P loan at 6.50% \$2,505/year

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Town Financing Options - Private/Public Partnerships

- □ Usually, only consider projects with a \$50 million value
- As well, look for Design, Build, Operate, Finance and Maintain contracts
- 3P Canada can make available up to 25% grant towards the cost of the project – however, given the added cost of borrowing, this generally offsets the cost of interest if the term of the arrangement does not exceed 20 years
- Generally, 3P agreements have a significantly higher impact on a municipality's debt capacity

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Connection Costs

- Individual businesses and homeowners would be responsible for the costs of extending the connection into the building
- Range of costs will vary depending on the size of the property, distance of the connection to into the house from the roadway, etc.

Municipal Loans to Residents

- Municipal Act provides that costs may be either collected in a lump sum payment or the municipality shall provide for a loan
- A loan would require the municipality to issue debt and recover the annual payments from residents

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Municipal Loans to Residents - Wastewater

- Homeowners may either elect to borrow from the Town or use other resources (e.g. mortgage)
- Based on the total per lot charge for <u>wastewater</u> of approx. \$28,000, the annual payment would be:
 - 15 yr municipal loan at 3.25% \$2,361
 - 20 yr municipal loan at 3.50% \$1,948
 - 25 yr mortgage at 3.1% \$1,607
- Note should grants be available, the above payments would reduce by the % of the grant

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Municipal Loans to Residents - Water

- Based on the total per lot charge for <u>water</u> of approx. \$4,500, the annual payment would be:
 - 15 yr municipal loan at 3.25% \$380
 - 20 yr municipal loan at 3.50% \$313
 - 25 yr mortgage at 3.1% \$258
- Note should grants be available, the above payments would reduce by the % of the grant

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Debt Capacity for Erin

- MMAH regulations allow municipalities to issue debt to the limit of where annual debt payments equal 25% of total own revenues
- Erin's debt capacity would allow between \$15 million (10 year debt) \$25 million (20 year debt)
- Based on the "No Grant Scenario", borrowing for existing properties could require approx. \$50 million for wasteawter and \$3 million for water (note – it is assumed that the \$9 million (wastewater) and \$3 million (water) needed for growth are paid upfront by developers)
- To undertake the full project, grant funding will be needed the following identifies the benefit of different levels of grant funding

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Debt Capacity for Erin

	Debt Fu	nding Needed Aft	er Grant	Debt Limit		
Assumed Level of Grant Funding	Wastewater	Water	Total	(Based on 20 Yr debt)	Amount Over Limit	
0%	50,000,000	2,800,000	52,800,000	25,000,000	27,800,000	
10%	45,000,000	2,520,000	47,520,000	25,000,000	22,520,000	
20%	40,000,000	2,240,000	42,240,000	25,000,000	17,240,000	
30%	35,000,000	1,960,000	36,960,000	25,000,000	11,960,000	
40%	30,000,000	1,680,000	31,680,000	25,000,000	6,680,000	
50%	25,000,000	1,400,000	26,400,000	25,000,000	1,400,000	
60%	20,000,000	1,120,000	21,120,000	25,000,000	(3,880,000)	
66%	17,000,000	952,000	17,952,000	25,000,000	(7,048,000)	

Above debt amounts assume no full upfront payment by property owners

 Town would also need to preserve some debt capacity for other capital needs (e.g. cost road improvements related to above)

Ø Watson

Debt Capacity

- It would appear that the Town has the ability to finance the Existing Benefit for water and wastewater only if grants in the 60%-66% range are obtained
- However, this observation is premised on the Town negotiating with developers to cashflow the growth related charges
- If lesser levels of grants can be obtained, the servicing may be able to go ahead but on a staged basis (however need to consider if Treatment facility may be staged also)

Operating Costs

- The full system operating cost have been estimated at an annual amount of \$900,000 (in 2014 \$)
- Based on full buildout of the system, this would represent an average per home cost of \$400 per year

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Observations

Based on the foregoing:

- Town needs to pursue grants to reduce the overall impact onto property owners
- Grants are also needed to be able to remain within the Town's debt capacity limits
- Municipal Act (Part 12) charges for existing properties would be the primary basis for recovery
- For growth related costs, developing landowners would need to prepay their charges to offset the cost of borrowing
- Staging of the works may be considered if the treatment plant could be done in stages

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TOWN OF ERIN SERVICING & SETTLEMENT MASTER PLAN

COMMUNITY FORM & FUNCTION WORKSHOP MAY 4, 2009

Attendance List Name Address 1000. FERRIS ESYMPATICO . CA. 1000 FERRIS &KENNETTH AVA BARB TOCHER COUNCILLOR JOAN MURRAY ERIN ADVOCATE MAURSEN + RAY HAYES ERIN BOB GARDNAR F.R.N. - Fendrag 470 yaluu.ca CHRIS ZIPPAN Kathrynee sympati 9121 Erin (Liaison Q Zeanna Mack HIELDS ERIN inhoops, a SUESSMUTH pel helps @evinhoops.co?

TOWN OF ERIN SERVICING & SETTLEMENT MASTER PLAN

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COMMUNITY FORM & FUNCTION WORKSHOP MAY 4, 2009

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TOWN OF ERIN SERVICING & SETTLEMENT MASTER PLAN

COMMUNITY FORM & FUNCTION WORKSHOP MAY 4, 2009

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B. M. ROSS AND ASSOCIATES LIMITED Consulting Engineers 62 North Street, Goderich, ON N7A 2T4 p. (519) 524-2641 • f. (519) 524-4403 www.bmross.net

TOWN OF ERIN SETTLEMENT AND SERVICING MASTER PLAN

NOTES FROM COMMUNITY FORM AND FUNCTION WORKSHOP

Details:	May 4, 2009			
	Erin Centre 2000 Arena (Shamrock Room)			
	Project Presentation	7:00 ó 8:00 p.m.		
	Brainstorming Exercise	8:15 ó 9:30 p.m.		

In Attendance:	Rod Finnie, Mayor John Brennan, Councilor Barb Tocher, Councilor Lisa Hass, Town Manager Sally Stull, Planner Dale Murray, Project Manag	Town of Erin er - Triton
	Bob Gardner Deanna McKay John Sutherland Chris Zuppan	Liaison Committee
	Matt Pearson Rick Steele Andrew McGarvey	BMROSS
	Jay McGuffin Jamie Gibson	Monteith Brown
	Members of the public: 25±	

7:00 p.m. – Project Presentation

• **Project Introduction**

- o Mayor Finnie welcomed attendees and introduced the study
- o Matt Pearson introduced the study team
- o Matt explained the Master Plan process using flow charts and mind maps
- Matt explained the role of public communication in this process

• 'Tonight'

- Matt provided an introduction to the project and how it is important for the study team to understand the form and function of the community. This will be used to define existing and future needs. This workshop is designed to elicit input from a general community/personal perspective.
- Matt went over the process and rules for the workshop.

• Planning 101

• Sally Stull, Town Planner talked briefly about planning issues and constraints to growth

• Pictures

- Pictures are worth 1000 words; Matt used examples to describe how people could use pictures as part of the community form and function process.
- A couple of people offered examples of pictures in their heads of what Erin means to them
- Matt asked the attendees to email pictures to him of what Erin represents and means to them

8:15 p.m. – Brainstorming Exercise

• Question and Answer Period

- Everyone was divided into three groups of roughly ten people, with each group being asked to respond to six questions by a team member
- The questions and group answers are listed in Appendix A

• Debrief

- Matt pointed the similarities and contradictions of the different group responses to the questions
- o Matt also answered further questions regarding the process and the study
- Attendees were asked to leave email addresses so that notes from the meeting can be forwarded, as well as future information.

Appendix A Responses to Questions

Group 1

What is the community's greatest asset?

-Credit River -The people; knowing residents -Good tasting drinking water -Small town atmosphere -Topography -Rural flavour -Wildlife -High taxation (assessment) -Commuting to multiple large centers -Centre 2000 -Great high school -Shopping -Proposed SSMP -Trails -Urban trails; need to be better developed -Rural-linkage trails -Historic buildings -French immersion -History of town -Name of town -Heritage sites -natural and historic -Good design style - housing -Access to sports -Large volunteer base -Erin fall fair - prelude to Royal -Rodeo -Agriculture base -Conservation authority -Erin radio -Tree base -Clean air -Fishing opportunities - wild trout -Amphibian population -Children friendly -Talented students - artistic -Dedicated mentors to children -Intellectual capital -Good community spirit

-Ed Stewartøs equipment -Dairy and bakery -Green community

One reason you like to live here?

-Access to amenities -Small town atmosphere -Away from hustle and bustle of city - noise, pollution -Low density housing -Friendly -Birds -Space and privacy -Quiet -Country smell -Oasis -Can live here -Hear the rooster

What do you like least about Erin?

-No public sewer system -Main Street traffic -Growth that has happened in the last 30 years -Lack of public parkland -No public transportation -Inaccessible water resources -Erin-Hillsburgh rivalry -No opportunities for young adults -Expensive for young adults and seniors -Lack of affordable housing -Lack of job opportunities -Lack of industrial/commercial tax base -Too many gravel pits below water table -Too much water taking -Lack of senior housing -No curling club -No public swimming pool -Lack doctors \rightarrow no building for health team -Intolerance of diversity -Limited adult recreation activities -No night life

Is there a place here for your children when they grow up?

-No

-Maybe, depending on desire

-Have to leave for education and dongt come back

-No place to live \rightarrow affordable housing

-No community service opportunities

What would make you leave Erin?

Win lottery
Death
No place to work
Business opportunities elsewhere
Taxation
Need long-term care
Housing like Brampton
Realize equity in property
If USA takes over Canada
GTA West through property
Have to go to the city for things to do
Move closer to children
Boredom
Development - industrial/residential

What would make Erin a better place to live in?

-Public sewer system -Emphasize recreational industry -Control downtown traffic -Countryside more accessible -Better roads -Affordable and senior housing -More parkland and safe bike paths -Parking -Family health team building -Housing design with small town feel -McDonalds -Swimming pool -Public washroom on Main Street -Urban walking trails finished and enhanced -More integration of residential/commercial/light industrial -Lower user fees for community groups

Town of Erin ó Notes from May 4, 2009 Workshop

Eliminate development
Buy-up available property and demolish residences
Lower taxes/more industrial to allow for lower taxes
Support for local businesses→chamber of commerce
Public transit links outside Erin
Enhance heritage parkland
Dams and fish barriers
Clean-up behind Main Street stores
Boardwalk on river
An advocating advocate
New subdivision development having at least two trees per lot
Developer responsibility
Truck bypass

Group 2

What is the community's greatest asset?

-Great downtown - unique, pleasant old style, nice feeling

- -Excellent recreation opportunities golf course, rail trail, Centre 2000
- -Location convenient to countryside
- -Clean air
- -Clean water
- -Central location
- -Access to GO Train
- -Equestrian
- -Safe
- -Good services
- -Walkable

-Culture

-Quality of life

One reason you like to live here?

-Itøs comfortable -Clean living, accessibility -Location - best of both worlds -Quality of life -Small town feeling -Sense of community -Surrounded by nature -Heritage -Unique village

What do you like least about Erin?

-Taxes are expensive -Low industrial/commercial base→don¢t want it to mushroom, but would prefer light manufacturing -Most of Erin down-wind from industrial land -Main Street is main truck route -Lack of pedestrian crossings -Area behind high school used for dirt bikes -High-density housing -Gravel pits

Is there a place here for your children when they grow up?

-No -Costs of homes are out of reach -Taxes are out of reach

What would make you leave Erin?

-Increasing taxes -Burden of sewage treatment plant costs -Disruption of construction -Loss of water due to aggregate -Lack of EMS -Not having a plan for the future

What would make Erin a better place to live in?

-Skateboard Park -Improve trail network -More health care opportunities in town -Medical Centre -Lower taxes -By-pass for trucks -Pedestrian friendly downtown -Green up the downtown -Downtown parking

Group 3

What is the community's greatest asset?

Students/young people/schools - should be engaged
Natural open spaces/Credit River - outdoor activities
Safe - low crime rate
Small town character/charm -mtight knit community
Community looks after each other and gives support
Small community is key
Proximity to bigger communities
Historic downtown
Recreation facilities are good
Lots of space/low density
Engaged churches
Low taxes
Hands-on government

One reason you like to live here?

-Quiet

It is close to the GTA but is still a small town
No light pollution
Stores and shops
Clean air and water/environment
Less traffic
School system is small, and has the same kids from start to finish
Itøs exciting in a small town way
Natural resources, rivers, trails
Diverse/complete community
Like the snow
Advocate - small town newspaper
People stop to see the nature

Is there a place here for your children when they grow up?

-No job opportunities
-Expensive to start out
-Nothing to do/no activities
-Lack of transportation
-The natural environment is valued and will bring kids back
-Familiarity/family

What would make you leave Erin?

-Disrespectful neighbours
-Incompatible uses
-Development that does not respect the townø assets
-Poor quality of air and water at unsafe levels
-Commercial polluters
-Unclean industrial
-High density
-Significant changes to what we have
-Disruption of construction and cost
-Wind turbines - economically donø work
-If the community became too busy

What would make Erin a better place to live in?

Truck bypass
Improve trail/bike system - something connecting landfill
Recoup money from Winston Churchill
Improvements in services
Clean up Stanley Park
Improve Langdon School
Improve shopping area
Boardwalk along the Credit River
Doctors and a medical centre
Better housing mix
Clean industry
More local employment
More kids programs/activities
High speed Internet

Defining Erin Our Ideas Our Vision Our Community

TOWN OF ERIN SERVICING AND SETTLEMENT MASTER PLAN **NOTICE OF PUBLIC MEETING**

A public meeting has been scheduled to **present the findings of the Servicing and Settlement Master Plan Background Report and introduce Phase 2 of the SSMP process**.

When: Tuesday, May 8, 2012 at 7 PM

Where: Shamrock Room Erin Community Centre/Centre 2000 14 Boland Drive, Erin ON

Copies of the Background Report can be viewed at the Town of Erin Municipal Office, Hillsburgh Library, Erin Library, as well as on the SSMP website: www.erin.ca/definingerin

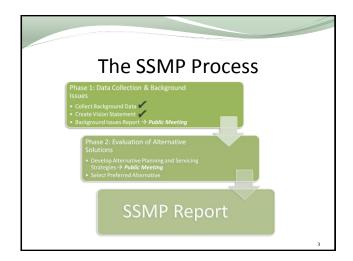
For more information about the Background Report or the SSMP, please contact:

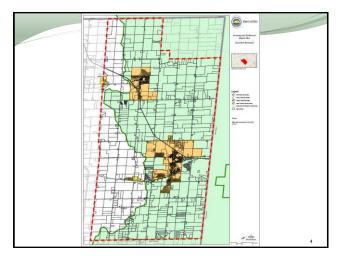
Matt Pearson, Senior Planner B.M. Ross and Associates Limited 1-888-524-2641 mpearson@bmross.net

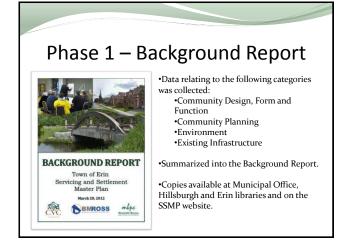


The Servicing and Settlement Master Plan A plan to encompass the community's visions and ideas, while approaching planning and servicing issues in a comprehensive, rational and environmentallyminded way.

• The SSMP will identify strategies for community planning and municipal servicing over the next 25 years, specific to the needs and wants of the residents of the Town.







Liaison Committee

• Provides input and direction on the SSMP process.

Meeting	Date	Topic	
1	April 8, 2009	Introduction to the SSMP	
2	June 9, 2009	Brainstorming – Community Role and Function	
3	October 19, 2009	Septic Systems 101	
4	November 18, 2009	Community Planning 101	
5	December 16, 2009	Introduction to Vision Statements	
6	July 25, 2010	Drafting a Vision Statement	
7	August 25, 2010	Finalizing the Vision Statement	
8	November 3, 2010	CVC Draft Existing Condition Report	



Community Design, Form and Function

Goals

- Develop a clear understanding of the existing design, form and function of the Town.
- Determine future role and function of the community (i.e., bedroom community, agricultural service centre, tourism centre).
- Develop a vision statement to provide direction for the future of the Town.

Community Form and Function Workshops

- Workshops with:
 - Council and Staff
 - The Public
 - Erin Village BIA
 - Brampton Real Estate Board
- Completed Strength, Weakness, Opportunity and Threat exercises.

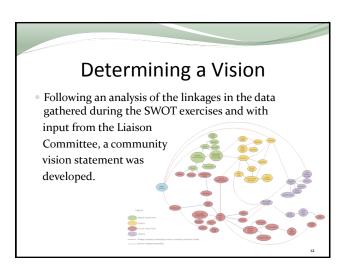


Community Form and Function Workshops

Themes and key characteristics from the SWOT exercises:

Natural Environment	"Small Town"	Housing	Industry
 Credit River Recreation Scenic Tourism Pollution Aggregates 	 Atmosphere Charm Heritage Safety Friendly Rural 	 Senior Heritage Starter High Cost High Taxes Aggressive Development 	 Small Tax Base Sewers Tourism and Recreation Transportation Aggregates Development



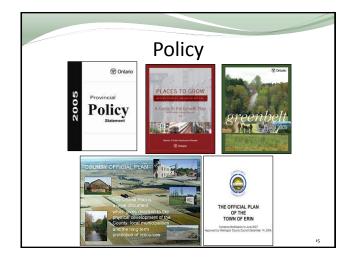


Community Vision Statement

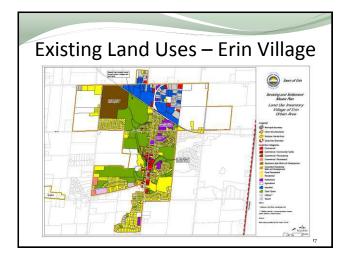
The Town of Erin will remain a vibrant, safe and sustainable community, located at the headwaters of the Credit and Grand Rivers. The Town will continue to capitalize on its proximity to large urban centres, while maintaining its excellent community spirit. With a strong employment base, and a range and mix of housing, a high percentage of residents will work and continue to live within the Town of Erin. Visitors will enjoy the small-town atmosphere, unique shops and surrounding rural charm. Through responsible development and servicing, the Town's rich natural environment will be protected and preserved.

Community Planning

- Background information collected relating to community planning, including:
 - Policy Directives
 - Existing Land Uses
 - Community Character
 - Cultural Heritage Resources
 - Analysis and Forecasting of Population and Housing
 - Viability of Commercial Cores
 - Future Development

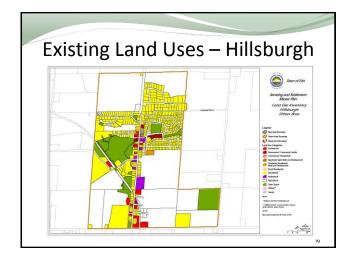


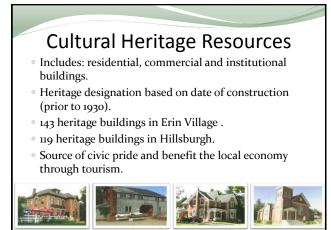




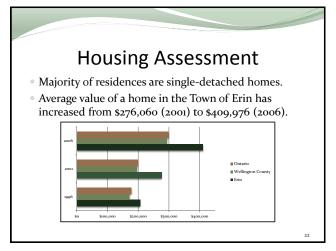
Existing Land Uses – Hillsburgh

- Residential
 - 513 residential dwelling units (2007).
 - 95% are single-detached dwellings .
 - 1 2-storey apartment buildings and no townhouses.
- Commercial
 - Most commercial use concentrated along Main Street.
 - Includes: furniture store, bakery, grocery store, hair salon,
 - bank, offices and more.
 - Some vacant commercial spaces on Main Street.
- Industrial
- No industrial land uses within the urban boundary.

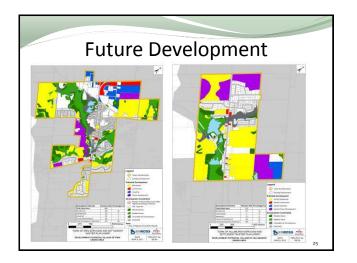


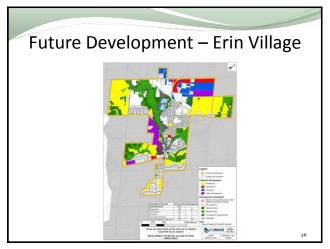


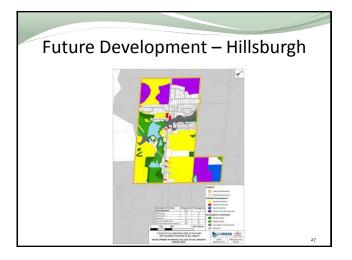


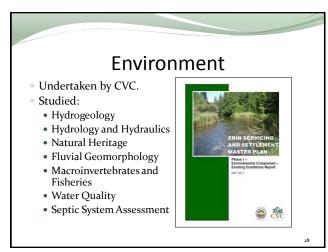


Po	pula	atio	n Gr	°OW [®]	th	
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Town of Erin	2006	2011	2016	2021	2026	2031
Total Population	11,380	11,930	12,490	13,510	14,530	15,530
Households	3,810	3,960	4,160	4,510	4,850	5,180
Fotal Employment	5,550	3,590	3,780	4,600	5,020	5,460
	2006	2011	2016	2021	2026	2031
ERIN VILLAGE						
Total Population	3,020	3,000	3,100	3,540	3,980	4,400
Households	1,030	1,050	1,090	1,240	1,390	1,530
HILLSBURGH						
Total Population	1,240	1,280	1,380	1,610	1,850	2,080
Households	410	430	460	540	610	690

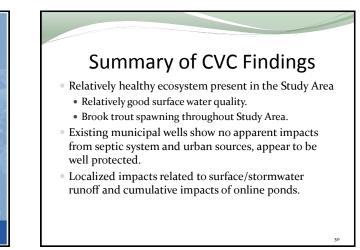


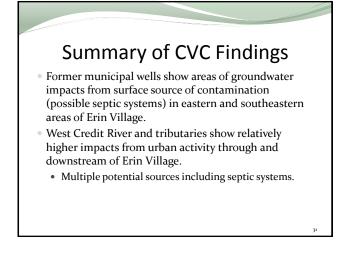


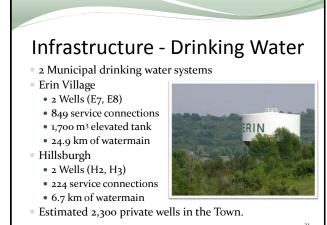


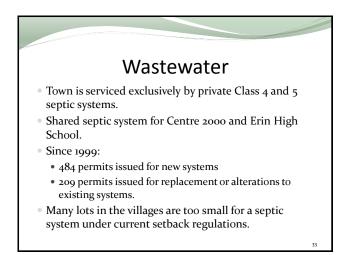


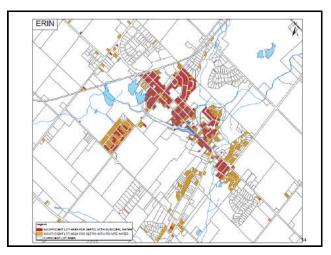


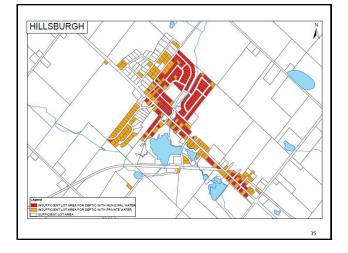


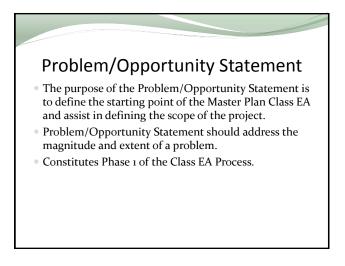












Problem/Opportunity Statement

The Town of Erin Official Plan outlines a community-based process for completing a Servicing and Settlement Master Plan (SSMP) to address servicing, planning and environmental issues within the Town. The SSMP study area includes Erin Village and Hillsburgh, as well as the lands between and surrounding the villages. Under the Master Plan approach, infrastructure requirements are assessed in conjunction with existing and future land uses using environmental planning principles over extended time-periods and geographic areas. Servicing scenarios are evaluated using environmental, technical and financial sustainability losses to define a preferred strategy. From community input and feedback, a Vision Statement outlining the community is ideas for the future of the Town, has been developed. The Vision Statement will serve as a guide throughout the SSMP process, assuring the development of the SSMP is consistent with the community's goals for the future.

The first phase of the Master Plan process is the definition of a Problem/Opportunity statement. This statement serves to provide guidance and direction during the development of alternative community planning and servicing strategies during the second phase of the SSMP process.

Problem/Opportunity Statement

Presently, the Town of Erin lacks a long term, comprehensive strategy for the provision of water and was in the villages of Erin and Hillsburgh. The following limitations are associated with the current statu within the Town's urban areas:

stewater Wastewater is treated exclusively by private, on-site wastewater treatment systems. Within the Built Boundary of the settlement areas (Hillsburgh and Erin Village), private property investment and redevelopment is restrained by increasingly stringent sethacks required for septic systems, small to tisses and the presence of private vells. Additionally, there are limited facilities in the area accepting septage from private systems for treatment. The settlement areas (Hillsburgh and Erin Village) have been identified as areas of modest growth under the Places to Grow Act and by Wellington County population projections. At present, the servicing infrastructure is inadequate to need future demand to asp: Lossized to include septi systems will not allow for projected future development to occur in a manner consistent with the need for smaller, less-expensive homes in the community as identified in the Vision Statement.

Partial water servicing in Erin Village and Hillsburgh limits the operational and cost efficiency of the systems and inhibits redevelopment and future development. The capacity of the existing system will need to be augmented to address current limitations and the needs of future development.

Stormwater Management/Transportation
The West Credit River currently shows impacts from urban stormwater drainage, resulting from limited stormwater management infrastructure. Given existing impacts and potential future impacts relating to development, there is a need to assess existing and future stormwater management and transportation infrastructure planning strategies.



- SSMP Report
- Notice of Completion

TOWN OF ERIN SERVICING AND SETTLEMENT MASTER PLAN (SSMP)

PUBLIC MEETING 2 May 8, 2012

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TOWN OF ERIN SERVICING AND SETTLEMENT MASTER PLAN (SSMP)

PUBLIC MEETING 2 May 8, 2012

ATTENDANCE LIST (PLEASE PRINT)

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TOWN OF ERIN SERVICING AND SETTLEMENT MASTER PLAN (SSMP)

PUBLIC MEETING 2 May 8, 2012

ATTENDANCE LIST (PLEASE PRINT)

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TOWN OF ERIN SERVICING AND SETTLEMENT MASTER PLAN (SSMP)

PUBLIC MEETING 2 May 8, 2012

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TOWN OF ERIN SERVICING AND SETTLEMENT MASTER PLAN (SSMP)

PUBLIC MEETING 2 May 8, 2012

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PUBLIC MEETING 2 May 8, 2012

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TOWN OF ERIN SERVICING AND SETTLEMENT MASTER PLAN (SSMP)

PUBLIC MEETING 2 May 8, 2012

Name Address 5 Davours Cres HIUSBURGH DAVE DOAN 1

TOWN OF ERIN SERVICING AND SETTLEMENT MASTER PLAN (SSMP)

PUBLIC MEETING 2 May 8, 2012

ATTENDANCE LIST (PLEASE PRINT)

Name 10de

Address 142 Hillsburgh 19 Deferin Cres Erin ON NOBITO R142

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Illusigned In.

TOWN OF ERIN

SERVICING AND SETTLEMENT MASTER PLAN (SSMP)

PUBLIC MEETING 2 May 8, 2012

COMMENTS

Name: Address: Fin PLEASE HAND IN, MAIL/EMAIL, OR FAX B. M. ROSS AND ASSOCIATES LIMITED WITH (T! Consulting Engineers 62 North Street Goderich, Ontario N7A 2T4 Phone: (519) 524-2641 Fax: (519) 524-4403 E-mail: mpearson@bmross.net

Attention: Matt Pearson, Senior Planner

Comments and Information collected by B.M. Ross & Associates Limited on behalf of the Town of Erin will assist in decision making pertaining to the SSMP. Comments and opinions will be kept on file but will not be included in study documentation made available for public review. Under the <u>Freedom of Information and Protection of</u> <u>Privacy Act</u> (1990) personal information provided to the Town of Erin will remain confidential unless prior consent is obtained.

TOWN OF ERIN

SERVICING AND SETTLEMENT MASTER PLAN (SSMP)

PUBLIC MEETING 2 May 8, 2012

COMMENTS Name: Address: reaus tin m MP D onl 7) no PURM Æ ~00m 100 τŋ on, J PLEASE HAND IN, MAIL, EMAIL, OR FAX TO: B. M. ROSS AND ASSOCIATES LIMITED **Consulting Engineers** 62 North Street Goderich, Ontario N7A 2T4 Phone: (519) 524-2641 Fax: (519) 524-4403

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Finally got interesting nour the end. Likely because we could hear speaker. Clarification, by audience members more interesting. Started to fillin the missing pieces of the town's background that many did not know. Question/Answer part more interesting.



Public Meeting No. 3 21-Feb- 2013

Presentation Themes

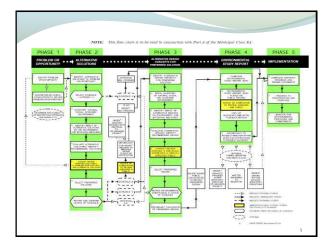
- •What is the goal of the SSMP
- •What has been done to date
- •What is new
- •Where is the process going

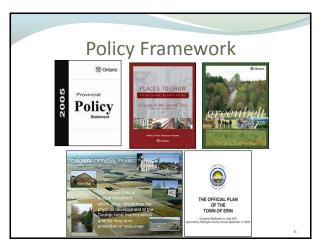
What is the goal of the SSMP ...

... and what it wasn't designed to do.

The Servicing and Settlement Master Plan

- A plan to encompass the community's visions and ideas, while approaching planning and servicing issues in a comprehensive, rational and environmentallyminded way.
- The SSMP will identify strategies for community planning and municipal servicing over the next 25 years, specific to the needs and wants of the residents of the Town.



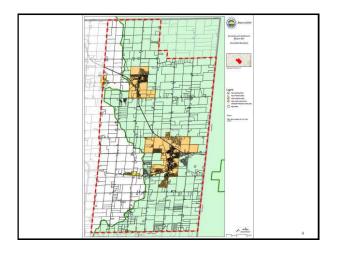


Places to Grow

- The Province has established a Growth Plan for the Greater Golden Horseshoe (aka Places to Grow) which includes Wellington County
 - Where and how to grow making better use of land and infrastructure by **directing growth to existing urban areas.**
 - There is a large supply of land already designated for future development.
 - The Plan emphasizes intensification, making better use of infrastructure and reducing sprawl.
 - The Plan provides **density targets** for development.

The Greenbelt Plan

- Establishes a broad band of **permanently protected** land
 - The Greenbelt Plan builds on the existing policy framework established in the Provincial Policy Statement and is to be implemented through municipal official plans and maps.
 - Will be reviewed every 10 years.



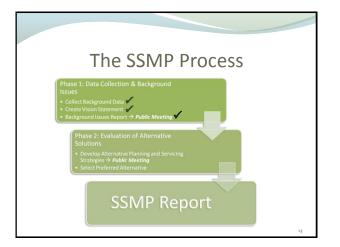
Provincial Policy Statement

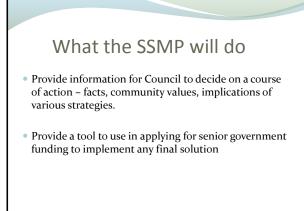
- Issued under the Planning Act, all planning authorities shall be consistent with the PPS when making decisions affecting planning matters.
- It is intended that Municipal Official Plans serve as the main vehicle for implementation of these policies.
- Based on 3 fundamental principles: building strong communities, the wise use and management of resources, and protecting health and safety.

Provincial Policy Statement

- Key policy direction:
 - Focus development to Settlement Areas
 - Provide efficient, orderly and cost effective development
 - Sufficient land is to be made available through intensification and redevelopment to accommodate an appropriate range and mix of employment and housing needs to meet projected needs for time horizons up to 20 years
 - · Promote economic development and competitiveness.

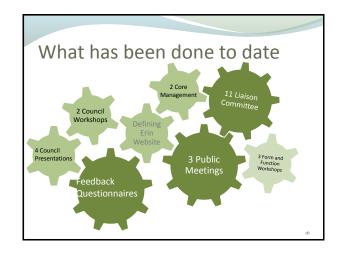
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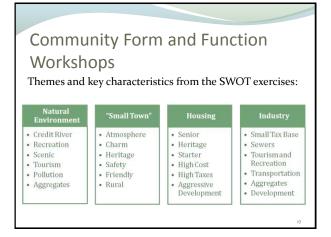


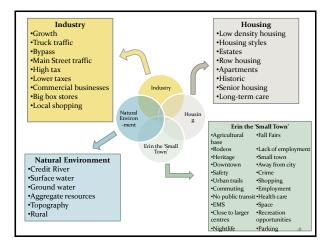


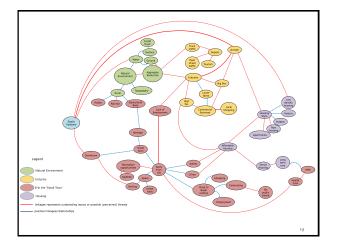
What the SSMP will not do

- It does not provide detailed information regarding technologies that will be reviewed and evaluated as part of a further Class EA process.
- It does not review the appropriateness of any particular site that may be part of a final solution. This review would be part of the next phase of a Class EA process.
- It does not comment on the appropriateness of any particular planning application. That is subject to a Planning Act process.





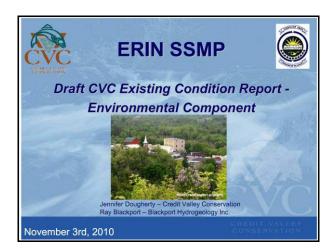






Community Vision Statement

The Town of Erin will remain a vibrant, safe and sustainable community, located at the headwaters of the Credit and Grand Rivers. The Town will continue to capitalize on its proximity to large urban centres, while maintaining its excellent community spirit. With a strong employment base, and a range and mix of housing, a higher percentage of the residents will work and continue to live within the Town of Erin. Visitors will enjoy the small-town atmosphere, unique shops and surrounding rural charm. Through responsible development and servicing, the Town's rich natural environment will be protected and preserved.



Summary of CVC Findings

- Relatively healthy ecosystem present in the Study Area
 - Relatively good surface water quality.
 - Brook trout spawning throughout Study Area.
- Existing municipal wells show no apparent impacts from septic system and urban sources, appear to be well protected.
- Localized impacts related to surface/stormwater runoff and cumulative impacts of online ponds.

Summary of CVC Findings

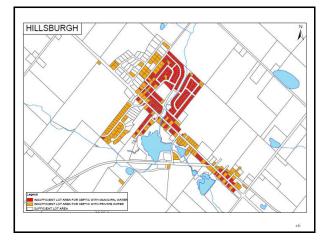
- Former municipal wells show areas of groundwater impacts from surface source of contamination (possible septic systems) in eastern and southeastern areas of Erin Village.
- West Credit River and tributaries show relatively higher impacts from urban activity through and downstream of Erin Village.
 - Multiple potential sources including septic systems.

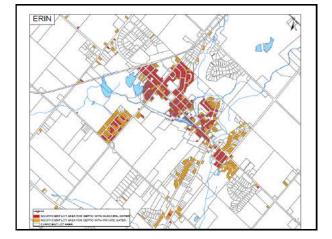
Town of Erin Septic Studies

- Wellington-Dufferin-Guelph Health Unit Village of Erin May 1995:
 9 4 lots inaccessible for equipment needed to remove & replace a deficient system (homes too close together or presence of trees)
 Numerous lots not large enough for replacement systems based on the current Ontario Building Code
 Soil meather and Armentaria and

 - Soils mostly sand & gravel difficult to find failed systems with water ponding
 Numerous systems in downtown core and south end of Main street close proximity of Credit
 River

- MOE Town of Erin Septic Investigation 2005:
 Due to soil type untreated sewage effluent from failed septic systems would be able to reach Credit River quickly
 - Indicated that septic systems are a contributor of nutrients to the west branch of the Credit River
 - Recommend an investigation be conducted on the integrity of the septic systems in the older section of the Town of Erin









Pumped every 3-5 years (depends on size and load) When scum & sludge equal >1/3 of total tank volume Removes built up sludge & prevents solids from exiting tank into leaching bed Be present for pumping as pumper will point out maintenance problems

Existing Conditions

- Location
 - Conveniently located
 - 30 km to Guelph
 - 70 km to Toronto
 - A world of employment, cultural, recreational, and institutional opportunities within a 45 minute drive.



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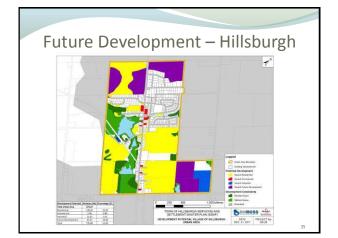
Policy Framework

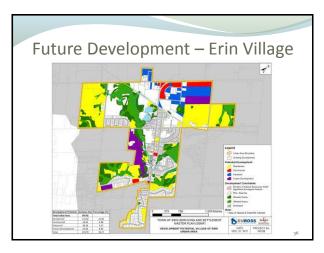
• Wellington County Official Plan

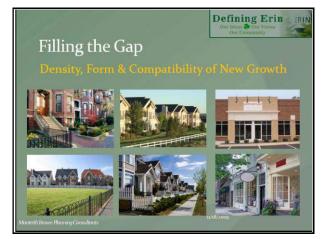
- Population and employment forecasts for next 25 years were done by CN Watson
- 82% of population growth in Wellington will occur in the 15 Urban Centres Erin and Hillsburgh are among these.
- Erin and Hillsburgh are projected to grow approximately 2,200 persons and 780 dwelling units by 2031.
- This represents 6.84% of the County's growth.
- Average of 89 people per year and 31 dwelling units per year.
- Beyond this the SSMP will examine projections out to 2035.
- This is not rapid growth.

Population Growth

	2006	2011	2016	2021	2026	2031
Total Population	11,380	11,930	12,490	13,510	14,530	15,530
Households	3,810	3,960	4,160	4,510	4,850	5,180
Fotal Employment	5,550	3,590	3,780	4,600	5,020	5,460
	2006	2011	2016	2021	2026	2031
ERIN VILLAGE						
Total Population	3,020	3,000	3,100	3,540	3,980	4,400
Households	1,030	1,050	1,090	1,240	1,390	1,530
HILLSBURGH						
Total Population	1,240	1,280	1,380	1,610	1,850	2,080
Households	410	430	460	540	610	690







Problem/Opportunity Statement

• Presently, the Town of Erin lacks a long term, comprehensive strategy for the provision of water and wastewater servicing in the villages of Erin and Hillsburgh. The following limitations are associated with the current status of servicing within the Town's urban areas:

Problem/Opportunity Statement

Wastewater

- Vastewater Wastewater is treated exclusively by private, on-site wastewater treatment systems. Within the Built Boundary of the settlement areas (Hillsburgh and Erin Village), private property investment and redevelopment is restrained by increasingly stringent setbacks required for septic systems, small lot sizes and the presence of private wells. Additionally, there are limited facilities in the area accepting septage from private systems for treatment.
- from private systems for treatment. The settlement areas (Hillsburgh and Erin Village) have been identified as areas of modest growth under the Places to Grow Act and by Wellington County population projections. At present, the servicing infrastructure is inadequate to meet future demand to 205. Lots sized to include septic systems will not allow for projected future development to occur in a manner consistent with the need for smaller, less-expensive homes in the community as identified in the Vision Statement.

Problem/Opportunity Statement

Water

- Partial water servicing in Erin Village and Hillsburgh limits the operational and cost efficiency of the systems and inhibits redevelopment and future development.
- The capacity of the existing system will need to be augmented to address current limitations and the needs of future development.



Stormwater Management

• The West Credit River currently shows impacts from urban stormwater drainage, resulting from limited stormwater management infrastructure. Given existing impacts and potential future impacts relating to development, there is a need to assess existing and future stormwater management infrastructure.

Transportation

• Current transportation infrastructure may need upgrades to accommodate future growth.





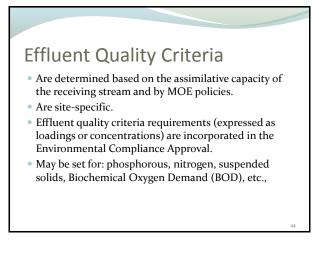


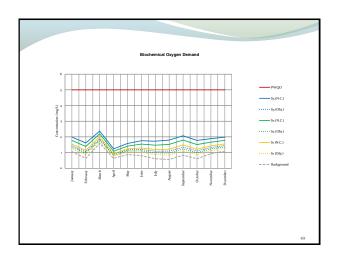
Table 3.0 Treatment Requirement	nts	
Parameter		
	Desig 1996 MOE	n Values Suggestion
	Treatment	Non
	Objective	Compliance
рН	8.2	7-8.6
Total Suspended Solids (mg/L)	3.0	10
Total Phosphorous (mg/L)	0.1	0.20 (0.15*)
Total Ammonia (mg/L)	0.4	2.0
Total Kjeldahl Nitrogen (mg/L)		3.0
Nitrate Nitrogen (mg/L)	7.6	10
E. Coli (org/100 mL)	100	200 (100*)
Dissolved Oxygen (mg/L)	5 (min)	4 (min)
BOD ^s (mg/L)	3.6	7.5
Temperature	17	8-19

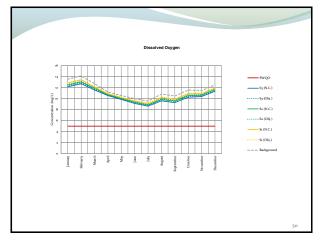
Assimilative Capacity

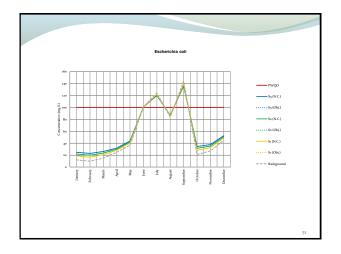
- is an assessment of the ability of a watercourse to resist the effects of a disturbance without impairing water quality.
- Assimilative Capacity Study (ACS) is a tool to determine the extent a potential receiving stream can be used as part of the sewage treatment process.
- ACS generally include:
 - Characterization of effluent quality and quantity.
 - Characterization of receiving stream water quality and quantity.
 - Modelling scenarios of effluent discharge and background conditions.

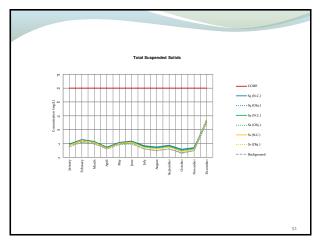


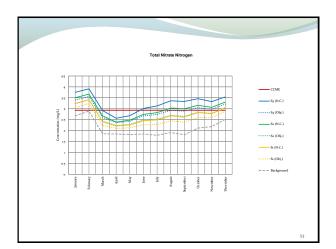
Table 2.4 Estimated Projected Population The following population scenarios have been athtranhy selected and are for comparison purposes only.	
The following percentation properties have been arbitrarily enjoyed and are for comparison purposes only	
the non-mig pipement accentics nere used accent and are no comparison populations.	
Development Scenario Pop. Density <u>Uban Development Assa Equivalent Population</u>	
Incremental Total Incremental Tot	tal
ppHa Ha Ha People Peo	ale
Existing 10 4/- 417 417 4280 421	80
Growth Scenario 1 40 55 472 2200 644	80
Growth Scenario 2 40 88 560 3520 100	000
Growth Scenario 3 40 88 648 3500 135	;00
Possible Ultimete 40 232 880 9300 228	300
Utimate Urban Area 880Ha	

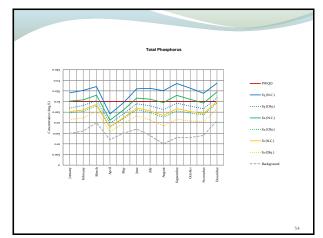












Dealing with Septage

- Septage is raw, untreated waste from septic systems and holding tanks.
- Generally, septage is 30-60x more concentrated (in terms of biochemical oxygen demand and suspended solids) than wastewater.
- Treatment facility requirements:
 - Unloading facilities
 - Extended aeration facilities
 - Sequencing Batch Reactor
 - Discharge into WWTP

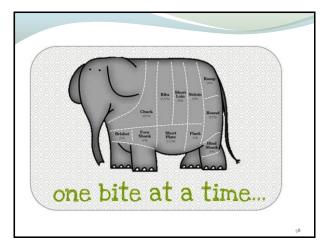


Conceptual Design Cost Estimate

	Erin	Hillsburgh	Total
Sewage collection	\$27,000,000	\$9,800,000	\$36,800,000
Sewage treatment:	design pop'n =	6,500	\$28,600,000
Total cost:			\$65,400,000

Conceptual Design Cost Allocation

	Erin/Hillsburgh Existing Lots	Future Lots	
Sewage collection	\$19,500	\$5,700	
Sewage treatment:	\$12,500	\$12,500	
Total cost:	\$32,000	\$18,200	



Planning & Servicing Strategies

- How do they relate to the Vision Statement
- How do they relate to the Problem Opportunity
 Statement
- Review compliance with overarching rules/policy
- Review environmental impacts and mitigations

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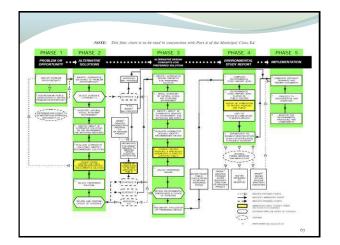
Fish or cut bait

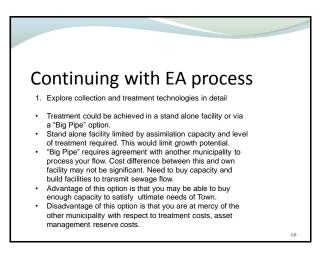
- 1. Stay with the status quo
- · Will stay small, not much growth
- Identified issues with septic systems need to be addressed. Does not address any of the issues regarding housing, •
- employment, quality of life. Costs are individually handled, no government funding for
- septic repairs/replacement on private property May lead to two tier serviced community.

Poop and get off the pot

- 2. Move on to the next phase of the Class EA process
- Opportunity to address existing issues in Problem
- Statement
- Ties into the Vision Statement
- Further defines technology, costs, phasing possibilities Further defines growth limits
- Opportunity to attract senior government funding Opportunity to take advantage of current demands for

- growth by leveraging costs Allows municipality to be the main driver in its future A significant financial investment to continue Still an opportunity to not move forward at end of EA process.





Continuing with EA process

- 2. A "Do nothing" option is always in play
- · If the environmental impacts are insurmountable or the costs deemed not reasible to implement a preferred alternative a municipality can always revert to a "Do nothing' option. This option would be similar to the "Status Quo"
- Presented earlier.
 Would lose investment of SSMP and EA process.

Next steps in SSMP process

- The ACS is reviewed by MOE and CVC and final population
- numbers are agreed to. A draft Final Report is prepared and reviewed with Liaison Committee and
- A draft Final Report is prepared and reviewed with Liaison Committee and Core Management Team.
 Council will review draft, provide comments. Report will be finalized and put into the Public Record for review and comments by the public.
 Following this review period and any revisions, Council then approves the Master Plan.
 Municipality implements course of action.



File: 08128

RECEIVED

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B.M. ROSS & ASSOC. LTD.

1-5198332674

Town of Erin Servicing and Settlement Master Plan

PUBLIC INFORMATION MEETING February 21, 2013

COMMENTS

Name: Darry LiverMare Erin RR2

9 Th Line Address: <u>5362</u>

high. nos ije,

PLEASE HAND IN, MAIL, OR FAX TO: B, M. ROSS AND ASSOCIATES LIMITED **Consulting Engineers** 62 North Street Goderich, Ontario N7A 2T4

Phone: (519) 524-2641 Fax: (519) 524-4403 Email: lcourtney@bmross.net Attention: Lisa Courtney, Environmental Planner

Comments and Information collected by B.M. Ross & Associates Limited on behalf of the Municipality of Kincardine will assist in decision making pertaining to the Environmental Assessment study. Comments and opinions will be kept on file but will not be included in study documentation made available for public review. Under the Freedom of Information and Protection Act (1987) personal information provided to the Municipality of Kincardine will remain confidential unless prior consent is obtained.