MUNICIPALITY OF BROOKE-ALVINSTON

ASSET MANAGEMENT PLAN

DECEMBER 4, 2014





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Planning for growth

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EXECUTIVE SUMMARY

EXECUTIVE SUMMARY

This report contains the Asset Management Plan for the Municipality of Brooke-Alvinston (Municipality) and has been organized as follows:

Chapter 1: Introduction; Chapter 2: State of Local Infrastructure; Chapter 3: Expected Levels of Service; Chapter 4: Asset Management Strategy; Chapter 5: Financing Strategy; and Chapter 6: Recommendations.

The "state of local infrastructure" chapter provides an overview of the capital assets owned by the Municipality. This includes detailed information on the Municipality's asset inventory, including asset attributes, accounting valuations, replacement costs, useful life, age and asset condition. This information provides the foundation for other sections of the asset management plan.

"Expected levels of service" compares the current level of service provided by the Municipality to the level of service determined to be expected in each area. This analysis combines both descriptions/comments as well as performance measures in establishing service levels.

The "asset management strategy" provides a long term operating and capital forecast for asset related costs, indicating the requirements for maintaining, rehabilitating, replacing/disposing and expanding the Municipality's assets, while moving towards the specified expected levels of service identified above. The goal of the asset management strategy is to have the Municipality in (or moving towards) a sustainable asset management position over the forecast period.

The "financing strategy" identifies a funding plan for the asset management strategy, including a review of historical results and recommendations with respect to the required amounts and types of funding (revenue) annually. Also, any infrastructure funding deficits/shortfalls are identified and recommendations are made regarding potential approaches to reduce and mitigate the shortfall over the forecast period.

Overall, this asset management plan is a tool to be used by Municipal staff for capital and financial decision making. It can be tied to various existing reports (such as the Municipality's budget, official plan and strategic planning reports) to ensure the asset management plan can be updated to reflect any changes in Municipality priorities.

1. INTRODUCTION

1. INTRODUCTION

1.1 <u>Overview</u>

The main objective of an asset management plan is to use a municipality's best available information to develop a comprehensive long term plan for capital assets. In addition, the plan should provide sound methodologies and support in order to improve the accuracy of the plan on a go forward basis.

Watson & Associates Economists Ltd. (Watson) was retained by the Municipality to prepare an asset management plan. This plan is intended to be a tool for Municipal staff to use during various decision making processes, including the annual budgeting process and capital grant application processes. This plan will serve as a road map for sustainable infrastructure planning going forward.

The following assets are included in this asset management plan:

- Road related (roads, bridges, street lights, and sidewalks);
- Stormwater mains;
- Facilities;
- Land Improvements;
- Vehicles;
- Machinery and Equipment;
- Water related (mains, facilities and equipment); and
- Wastewater (mains, facilities, vehicles and equipment).

The Municipality's goals and objectives with respect to their capital assets relate to the level of service being provided to Municipality residents. Services should be provided at expected levels, as defined within this asset management plan. Municipality infrastructure and other capital assets should be maintained at condition levels that provides a safe and functional environment for its residents. Therefore, the asset management plan and its implementation will be evaluated based on the Municipality's ability to meet these goals and objectives.

1.2 Plan Development

The asset management plan was developed using a program that leverages the Municipality's asset database information, staff input and asset management principles.

The development of the Municipality's asset management plan was based on the steps summarized below:

- Develop a complete listing of capital assets to be included in the plan, including attributes such as size/material type, useful life, age, accounting valuation and current valuation. Update current valuation, where required, using applicable inflationary indices.
- 2) Assess current condition of the assets, based on a combination of existing Municipality reports and an asset age analysis.
- 3) Assess the risk of asset failure for each asset, based on determining the probability of each asset failing, as well as the consequence of the asset failing. This risk analysis identifies priority projects for inclusion in the Municipality's capital forecast, as well as high risk assets that require mitigation.
- 4) Determine and document current levels of service, as well as expected levels of service, based on discussions with Municipal staff.
- 5) Prepare an asset management strategy (i.e. operating and capital forecast) based on the asset inventory, identified priorities, forecast scenarios, and level of service analysis discussed above.
- 6) Determine a financing strategy to support asset management strategy, thus determining how the operating and capital related expenditure forecast will be funded over the period.
- 7) Prepare a comprehensive Asset Management Plan final report.

1.3 <u>Maintaining the Asset Management Plan</u>

The asset management plan should be updated as the capital needs and priorities of the Municipality change. This can be accomplished in conjunction with specific asset legislative requirements as well as the Municipality's budget process. Municipal staff will have the tools available to perform updates to the plan when needed.

When updating the asset management plan, note that the state of local infrastructure, expected levels of service, asset management strategy and financing strategy are integrated and impact each other. Looking at these components in reverse order, the financing strategy outlines how the asset management strategy will be funded. The asset management strategy illustrates the costs required to maintain expected levels of service at a sustainable level. The expected levels of service component summarizes and links each service area to specific assets contained in the state of local infrastructure section and thus determines how these assets will be used to provide expected service levels.

While this report covers a forecast period of 20 years, the full lifecycle of the Municipality's assets was considered in the calculations. It is suggested that more focus and attention be put

on the first 5 years of the asset management plan, to ensure accurate capital planning in the short term.

1.4 Plan Integration

The municipal environment is a continually changing and demanding environment when it comes to legislation and other responsibilities. Integrating the asset management plan with the Municipality's budget process as well as Public Sector Accounting Board Section 3150 (PSAB 3150) requirements can make updates in all three areas more efficient.

With respect to integrating the Municipality's budget process with asset management planning, both require a projection of capital and operating costs of a future period. The budget outlines total operating and capital requirements of the Municipality, while the asset management plan focuses in on specific asset related requirements. With this link to the annual budget, the budget update process can become an asset management plan update process.

Both asset management and PSAB 3150 require a complete and accurate asset inventory. The significant difference between the two lies in valuation approaches; PSAB 3150 requires historical cost valuation, while asset management requires future replacement cost valuation. Using a single asset inventory containing both valuation methods is an effective approach to maintaining the Municipality's asset data.

Further integration into other Municipality financial/planning documents would assist in ensuring the ongoing accuracy of the asset management plan, as well as the integrated financial/planning documents. The asset management plan has been developed to allow linkages to documents such as:

- Official Plan;
- Water and Wastewater Rate Study;
- Strategic Planning Reports;
- Fiscal Impact/Operating Studies; and
- Insurance valuations and records.

2. STATE OF LOCAL INFRASTRUCTURE

2. STATE OF LOCAL INFRASTRUCTURE

2.1 Scope and Process

This section of the plan provides an opportunity to develop a greater understanding of the capital assets owned by the Municipality. The state of local infrastructure analysis includes:

- An asset database documenting asset types, sub-types including quantities, materials and other similar asset attributes;
- Financial accounting valuation (where available);
- Replacement cost valuation;
- Asset age distribution analysis and asset age as a proportion of expected useful life;
- Asset condition information;
- Data Verification and Asset Condition policies; and
- Documentation of assumptions made in creating the asset inventory.

The Municipality has a detailed inventory listing, created for PSAB 3150 purposes. This asset inventory is updated annually and was used as a starting point in fulfilling the requirements of this report. This inventory provides current financial account valuations (i.e. historical cost, accumulated amortization and net book value) as well as attributes such as useful life and age. The financial accounting valuations were inflated, using applicable inflationary indices to estimate current replacement cost. Appendix B contains the assumptions made while completing the asset management plan.

The following data and reports were used to supplement the Municipality's asset inventory during the initial process:

- a) 2009 Road Needs Study;
- b) 2013 Bridge Assessment Report;
- c) 2013 Water Financial Plan; and
- d) Discussions with Municipal staff.

A great short-term goal includes the ability to link these reports to the PSAB 3150 asset inventory in order to create a consolidated asset inventory for all purposes, including asset management. In addition, other supplemental reports will be needed to provide more accurate information in some areas, such as buildings and overall current asset valuation.

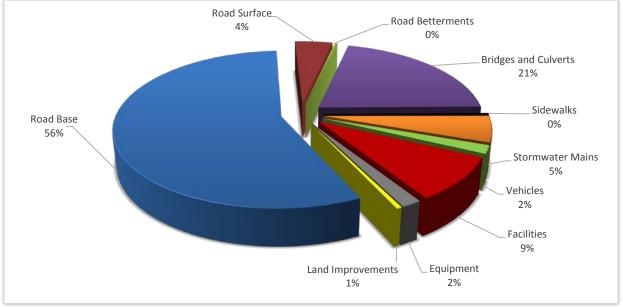
2.2 Capital Asset Overview

The Municipality presently owns and manages tax supported capital assets with a 2014 replacement value of approximately \$129.2 million (excluding land assets as they are not included in this plan). Table 2-1 outlines the breakdown of these totals and Figure 2-1 illustrates the breakdown.

Asset Type	Historical Cost 12/31/2013	Accumulated Amortization 12/31/2013	Net Book Value 12/31/2013	Replacement Cost 2014\$
Transportation (Public Works)				
Road Base	4,397,200	2,457,500	1,939,700	72,505,457
Road Surface	3,335,014	2,630,397	704,617	5,544,971
Road Betterments	286,399	178,999	107,400	309,662
Bridges and Culverts	4,533,797	2,496,082	2,037,714	27,235,128
Sidewalks	221,355	20,488	200,867	246,653
Stormwater Mains	1,637,942	535,612	1,102,330	6,986,192
Vehicles	1,532,089	765,915	766,175	2,189,003
Facilities	3,268,656	1,135,389	2,133,267	11,470,916
Equipment	1,662,420	1,110,671	551,749	2,135,817
Land Improvements	375,589	213,854	161,736	589,624
Total Tax Supported Capital Assets	\$ 21,250,462	\$ 11,544,907	\$ 9,705,555	\$ 129,213,423

Table 2-12014 Tax Supported Assets





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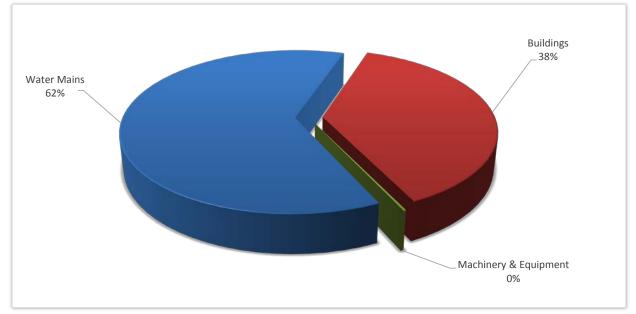
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The Municipality presently owns and manages water capital assets with a 2014 replacement value of approximately \$15.9 million (excluding land assets as they are not included in this plan). Table 2-2 outlines the breakdown of these totals and Figure 2-2 illustrates the breakdown.

Asset Type	Historical Cost 12/31/2013	Accumulated Amortization 12/31/2013	Net Book Value 12/31/2013	Replacement Cost 2014\$
Water Mains	3,922,861	887,897	3,034,964	9,870,693
Buildings	1,112,434	571,924	540,510	6,003,498
Machinery & Equipment	29,899	18,137	11,762	34,854
Total Water Assets	\$ 5,065,194	\$ 1,477,958	\$ 3,587,236	\$ 15,909,045

Table 2-2 2014 Water Assets

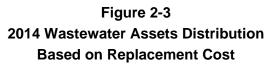


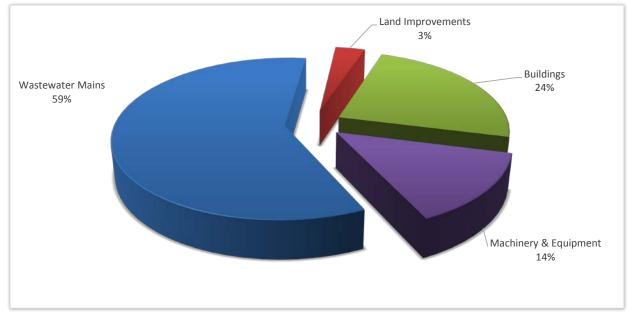


The Municipality presently owns and manages wastewater capital assets with a 2014 replacement value of approximately \$13.1 million (excluding land assets as they are not included in this plan). Table 2-3 outlines the breakdown of these totals and Figure 2-3 illustrates the breakdown.

Asset Type	Historical Cost 12/31/2013	Accumulated Amortization 12/31/2013	Net Book Value 12/31/2013	Replacement Cost 2014\$
Wastewater Mains	3,736,141	912,080	2,824,061	7,709,337
Land Improvements	397,355	28,229	369,126	429,630
Buildings	1,039,741	443,623	596,118	3,126,884
Machinery & Equipment	1,342,869	628,238	714,631	1,844,506
Total Wastewater Assets	\$ 6,516,106	\$ 2,012,169	\$ 4,503,937	\$ 13,110,357

Table 2-32014 Wastewater Assets





Tables 2-1, 2-2 and 2-3 also shows the Muncipality's financial accounting valuation summary by asset type. Since 2009, the Muncipality has been required under PSAB 3150 to maintain asset listings complete with historical cost (i.e. the original cost to purchase or construct an asset), accumulated amotization and net book value. These values are reported on the Muncipality's audited financial statements each year.

2-4

The detailed capital asset inventory is contained in Appendix A. Assumptions pertaining to the asset inventory were documented as part of the asset management process are shown in Appendix B.

2.3 Asset Age Analysis

Each asset is tracked based on estimated total useful life and remaining service life. Using this information, an age analysis of the Municipality's assets can assist in identifying potential areas of focus for the asset management plan.

Table 2-4 provides an age analysis summary, including the weighted (based on replacement cost) average useful life and weighted average remaining useful life for all of the assets included in this plan. This analysis can assist in identifying potential short-term priorities within specific asset areas.

	Weighted Average (rounded)			
Asset Type	Useful Life		% Remaining Useful Life	
Transportation (Public Works)				
Road Base	100	5	5.0%	
Road Surface	17	3	17.6%	
Road Betterments	8	3	37.5%	
Bridges and Culverts	55	14	25.5%	
Sidewalks	50	45	90.0%	
Stormwater Mains	75	26	34.7%	
Vehicles	20	9	45.0%	
Facilities	66	31	47.0%	
Equipment	14	5	35.7%	
Land Improvements	22	7	31.8%	

Table 2-4 Asset Age Analysis

Water Assets

Tax Supported

	Weighted Average (rounded)			
Asset Type	Useful Life	Remaining Useful Life	% Remaining Useful Life	
Water Mains	75	47	63%	
Buildings	83	32	39%	
Machinery & Equipment	14	6	43%	

Wastewater Assets

	Weighted Average (rounded)			
Asset Type	Useful Life	-	% Remaining Useful Life	
Wastewater Mains	75	50	67%	
Land Improvements	74	69	93%	
Buildings	75	43	57%	
Machinery & Equipment	37	22	59%	

Total useful life and remaining service life for each capital asset is documented in Appendix A.

While this analysis can be useful in looking at the overall age characteristics of specific asset areas, asset condition (see below) will assist in providing a more accurate assessment of assets reaching the end of their useful life.

2.4 Asset Condition

Including condition assessments in the asset management plan provides for a higher level of accuracy than simply relying on useful life assumptions, especially when it comes to older, highly used or more financially significant assets. Condition assessments can provide more realistic estimates of remaining service life, which can then be used to establish rehabilitation or replacement schedules.

For the purposes of this plan, condition ratings were derived from applicable external reports (i.e. road needs study, bridge assessment reports) and staff discussions. When condition information was not available it was estimated by looking at the asset's age in relation to useful life (i.e. an asset age analysis). These ratings are based on a numerical rating of between 0 and 5, where 5 indicates an asset with most of its useful life remaining. An exception to this 0 to 5 condition rating is bridge and culverts, where a 0 and 4 rating was used. A high level summary of the weighted average condition in each asset category is as follows:

Weighted Average Condition by Asset Category

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Тал	Ju	μης	nieu

Asset Type	Weighted Condition (*indicates age based analysis)
Transportation (Public Works)	
Road Base*	0
Road Surface	6
Road Betterments	4
Bridges and Culverts (see note)	3
Sidewalks*	5
Stormwater Mains*	2
Vehicles*	2
Facilities*	2
Equipment*	2
Land Improvements*	2

Note: Bridges and Culverts have a conditon rating out of 4.

Water Assets

Asset Type	Weighted Condition (*indicates age based analysis)
Water Mains*	3
Buildings*	2
Machinery & Equipment*	2

Wastewater Assets

Asset Type	Weighted Condition (*indicates age based analysis)		
Wastewater Mains*	4		
Land Improvements*	5		
Buildings*	3		
Machinery & Equipment*	3		

Further discussion of condition assessments will take place in Chapter 4 when assessing asset risk and identifying asset priorities. Furthermore, detailed asset conditions are documented in Appendix A to this report. As some condition assessments are currently based on the age of the assets, it is recommended that these condition assessments be updated as new information becomes available. Please see section 2.5 for further details.

2.5 Data Accuracy and Completeness

An important element of this asset management plan is ensuring that tools and procedures are in place to maintain accuracy and completeness of the asset data and calculations moving forward. As time passes, assets are used, maintained, improved, disposed of, and replaced. All of these lifecycle events can trigger changes to the asset database used within the asset management plan. Therefore, tools and procedures are essential to ensure the asset data remains accurate and complete. Please refer to Appendix C to this report for the "Data Verification and Condition Assessment Guideline" for the Municipality. This guideline illustrates how the asset data could be updated and verified going forward. This includes the timing of condition assessments for each asset area, as well as what should be included within the condition assessment procedures.

3. EXPECTED LEVELS OF SERVICE

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3.1 Scope and Process

A level of service (LOS) analysis gives the Municipality an opportunity to document the level of service that is currently being provided and compare it to the level of service that is expected. This can be done through a review of current practices and procedures, an examination of trends or issues facing the Municipality, or through an analysis of performance measures and targets that staff can use to measure performance.

Expected LOS can be impacted by a number of factors, including:

- Legislative requirements;
- Strategic planning goals and objectives;
- Resident expectations;
- Council or Municipal staff expectations; and
- Financial or resource constraints.

The previous task of determining the state of the Municipality's local infrastructure establishes the asset inventory and condition, as well as asset management policies and principles to guide the refinement and upkeep of asset infrastructure. The LOS analysis will utilize this information and factors in the impact of asset service level targets. It is important to document an expected LOS that is realistic to the Municipality. It is common to strive for the highest LOS, however these service levels usually come at a cost. It is also helpful to consider the risk associated with a certain LOS. Therefore, expected LOS should be determined in a way that balances both level of investment and associated risk to the Municipality.

3.2 <u>Current Levels of Service versus Expected Levels of Service</u>

The Municipality's current LOS has resulted in the current state of infrastructure discussed in chapter 2. The current LOS also relates to the risk assessment discussed in later report sections. Regarding the cost of LOS, the Municipality has established an operating and capital budget for the current year that includes the cost of providing this LOS to residents.

Therefore in moving from the current LOS to an expected LOS, consideration has to be made for the associated cost (or impact on the Municipality's current budget). The table below outlines broad LOS descriptions (both current and expected LOS). This analysis was documented through discussions with Municipal staff. It is anticipated that Municipal staff will further refine this analysis in future updates to the asset management plan. As this analysis relates to services that are guided by legislative requirements and standards (i.e. roads, parks, water and wastewater), the current and expected LOS are similar.

Table 3-1Level of Service Analysis

Roads Related Level of Service Description									
Department	Current	Expected							
Public Works	Exceed "Minimum Maintenance Standards" as defined by Ontario Regulation 239/02.	Exceed "Minimum Maintenance Standards" as defined by Ontario Regulation 239/02.							
Public Works	Annual gravel maintenance program.	Resurface every gravel road every 2 years.							
Public Works	Proactive capital program.	Proactive capital program.							

Bridges & Culverts

Department	Level of Service Description						
Department	Current	Expected					
Public Works	Maintain adequate condition and load limits.	Maintain adequate condition and load limits.					
Public Works		Proactive Bridge and Culvert maintenance (incl. bridge washing, brush cutting and drain clearing).					
Public Works	IProactive Bridde and Culvert renabilitation	Proactive Bridge and Culvert rehabilitation (based on bridge report).					
Public Works	Bridge inspections as required.	Bridge inspections (i.e. using OSIM reports) required every 2 years.					

Water & Wastewater

Department	Level of Service Description						
Department	Current	Expected					
Water & Wastewater	Meet all legislative requirements.	Meet all legislative requirements.					
Water & Wastewater	Proactive maintenance procedures.	Proactive maintenance procedures. Main relining program.					
Water & Wastewater	Track complaints by segment.	Track complaints by segment.					
Vyater & vyastewater	Monitor and minimize water main breaks & wastewater main backups.	Monitor and minimize water main breaks & wastewater main backups.					

Buildings, Equipment & Vehicles

Department	Level of Service Description						
Department	Current	Expected					
		Meet legislative requirement (Building Code, Fire Code, Accessibility, Health & Safety, etc.)					
Various	Replace Equipment/Vehicles as required. Track and monitor machine hours by vehicle.	Replace Equipment/Vehicles as required. Track and monitor machine hours by vehicle.					

Please refer to Appendix D of this report for a table summarizing the estimated budget impacts associated with implementing the expected LOS over the 20 year forecast period. This impact analysis will be factored into the asset management strategy discussed in chapter 4 of this report.

3.3 <u>Level of Service Performance Measures</u>

As mentioned above, using performance measures in the LOS review can also be helpful in measuring the Municipality's goals and objectives when it comes to asset management. The Municipality currently tracks specific performance measures as part of the Municipal Performance Measurement Program (MPMP) which the province has in place as part of the annual Financial Information Return (FIR) submission. The FIR provides the annual financial results of the Municipality, while the MPMP provides an evaluation of the Municipality's "performance". The following table provides a summary of the specific MPMPs relating to capital asset effectiveness, which will be tracked by Municipal staff on a go-forward basis.

			His			
Department	Assets	Performance Measure Description	2014	2015	2016	Goal
Fire	Buildings, Equipment, Vehicles	Residential fire civilian injuries per 1,000 persons				Minimize
Fire	Buildings, Equipment, Vehicles	Residential fire civilian fatalities per 1,000 persons				Minimize
Fire	Buildings, Equipment, Vehicles	Number of residential structural fires per 1,000 households				Minimize
Police	Buildings, Equipment, Vehicles	Total crime rate per 1,000 persons				Minimize
Transportation	Roads	Percentage of paved lane Km where condition is rated as good to very good				Maximize
Transportation	Bridges & Culverts	Percentage of bridges & culverts where condition is rated as good to very good				Maximize
Transportation	Roads	Percentage of winter events where response met or exceeded local service levels				Maximize
Wastewater	Wastewater Mains	Number of wastewater main backups per 100 KM of mains				Minimize
Wastewater	Buildings	Percentage of wastewater estimated to have by-passed treatment				Minimize
Water	Water mains	Weighted # days when a boil water advisory was issued				Minimize
Water	Water mains	Number of water main breaks per 100 KM of pipe				Minimize
Solid Waste	Buildings, Vehicles	Number of complaints received concerning garbage & recycling collection				Minimize
Recreation & Culture	Buildings	Participant hours for recreation programs per 1,000 persons				Maintain or Increase
Library	Buildings	Total library uses per person				Maintain or Increase

Table 3-2Performance Measures Analysis

The Municipality will calculate and monitor these performance measures, both for MPMP and asset management purposes moving forward. As the Municipality's asset management plan evolves over time, new performance measures can be introduced to further measure the LOS being provided in each service area.

4. ASSET MANAGEMENT STRATEGY

4. ASSET MANAGEMENT STRATEGY

4.1 Scope and Process

The asset management strategy provides the recommended course of actions required to maintain (or move towards) a sustainable asset funding position while delivering the expected levels of service discussed in the previous chapter. The course of actions, when combined together, form a long-term operating and capital forecast that includes:

- a) Non-infrastructure solutions: reduce costs and/or extend expected useful life estimates;
- b) Maintenance activities: regularly scheduled activities to maintain existing useful life levels, or repairs needed due to unplanned events;
- c) Renewal/Rehabilitation: significant repairs or maintenance planned to increase the useful life of assets;
- d) Replacement/Disposal: complete disposal and replacement of assets, when renewal or rehabilitation is no longer an option; and
- e) Expansion: given planned growth or other expansion or due to the introduction of new services.

Priority identification becomes a critical process during the asset management strategy development. Priorities have been determined based on assessment of the overall risk of asset failure, which is determined by looking at both the probability of an asset failing, as well as the consequences of failure. The consequences of the Municipality not meeting desired levels of service must also be considered in determining risk. As discussed in chapter 3, moving to expected levels of service results in both operating and capital budget impacts over the 20 year forecast period. This has to be taken into consideration, with the overall objective of reaching sustainable levels while mitigating risk.

4.2 Risk Assessment

The risk of an asset failing is defined by the following calculation:

Risk of Asset Failure = Probability of Failure X Consequence of Failure

Probability of failure has been linked to the condition assessment for each of the assets, assuming that an asset with a condition rating of 1 would have a high probability of failure. For some assets (i.e. stormwater mains) other factors, such as material rating, were also used to assess probability of failure.

Watson & Associates Economists Ltd.

Consequence of failure has been determined by examining each asset type separately. Consequence refers to the impact on the Municipality if a particular asset were to fail. Types of impacts include the following:

- **Cost Impacts:** the cost of failure to the Municipality (i.e. capital replacement, rehabilitation, fines & penalties, damages, etc.);
- Social impacts: potential injury to residents or Municipal staff;
- Environmental impacts: the impact of the asset failure on the environment;
- Service delivery impacts: the impact of the asset failure on the Municipality's ability to provide services at desired levels; and
- Location impacts: the varying impact of asset failure based on the asset's location within the Municipality.

Each type of impact was discussed with Municipal staff. Consequence of failure was determined by using the information contained in Table 4-2 for each asset type with the exception of the following, where the consequence of failure considerations are as follows:

- a) Roads (Base and Surface): based on roadside environment and traffic rating;
- b) Water and Stormwater Mains: based on pipe diameter; and
- c) Wastewater Mains: based on pipe diameter and type (gravity vs. force main).

Consequence of Failure	Cost	Social	Environmental	Service Delivery	
5 - Significant	Significant Cost - Difficult to Recover	Serious Injury	Long-term Impact - Permanent	Major Interruptions	
4 - Major	Substantial Cost - Multi-year Budget Impacts	Major Injury	Long-term Impact - Fixable	Significant Interruptions	
3 - Moderate	Considerable Cost - Requires Revisions to	Moderate Injury	Medium-term Impact - Fixable	Moderate Interruptions	
2 - Minor	Small/Minor Cost - within Budget Allocations.	Minor Injury	Short-term/Minor Impact - Fixable	Minor Interruptions	
1 - Insignificant	Negligible or Insignificant Cost	No injury	No Impact	No Interruptions	

Table 4-2Consequence of Failure Matrix

With both probability of failure and consequence of failure documented, total risk of asset failure was determined using the matrixes contained in Table 4-3. Total risk has been classified under the following categories:

- Extreme Risk (E): risk well beyond acceptable levels (red);
- High Risk (H): risk beyond acceptable levels (orange);
- Medium Risk (M): risk at acceptable levels, monitoring required to ensure risk does not become high (yellow); and
- Low Risk (L): risk at or below acceptable levels (green).

Table 4-3Total Risk of Asset Failure Matrix

Blidges									
Probability of	Consequence of Failure								
Failure	1	1 2 3 4							
1	1	2	3	4					
2	2	4	6	8					
3	3	6	9	12					
4	4	8	12	16					

Land Improvements, Facilities, Machinery and Equipment, Vehicles and Sidewalks

Probability of	Consequence of Failure								
Failure	1	2 3 4 5							
1	1	2	3	4	5				
2	2	4	6	8	10				
3	3	6	9	12	15				
4	4	8	12	16	20				
5	5	10	15	20	25				

Water and Wastewater Mains

Bridges

Probability of		Consequence of Failure								
Failure	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50

Stormwater Mains and Roads

Probability of		Consequence of Failure								
Failure	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
4	4	8	12	16	20	24	28	32	36	40
5	5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

Risk levels can be reduced or mitigated through planned maintenance, rehabilitation and/or replacement. An objective of this asset management plan is to reduce risk levels where they are deemed to be too high, as well as ensure assets are maintained in a way that maintains risk at acceptable levels.

Please refer to Appendix A for the detailed risk assessment for each of the Municipality's capital assets. It is recommended that this risk assessment be refined further by Municipal staff in the future.

4.3 **Priority Identification**

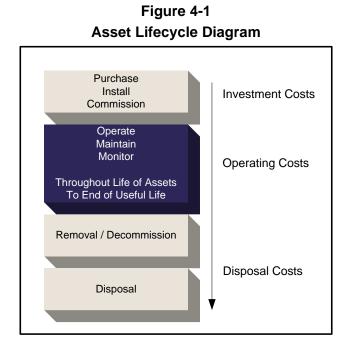
Through discussions with Municipal staff and review of the asset risk of failure assessment, the following assets/categories were identified as being priorities of the Municipality:

Area / Category	Description	Total Risk	Planned Action
Roads	River Street - Various Sections	High	Replacement in short-term capital
Roads	Centre Street - Various Sections	High	Replacement in short-term capital
Roads	Weidman Line - Various Sections	High	Replacement in short-term capital
Storm	Elgin Street - Various Sections	High	Replacement in short-term capital
Storm	Mill Street - Various Sections	High	Replacement in short-term capital
Storm	Morrell Street - Various Sections	High	Replacement in short-term capital
Water	Water Tower Rehabilitation	High	Replacement in short-term capital
Wastewater	Treatment Plant - Instrumentation/HVAC, Blower	High	Replacement in short-term capital
Wastewater	Pumping Station River South Rehabilitation	High	Replacement in short-term capital
Facilities	Alvinston Fire Hall Mechanical	High	Replacement in short-term capital

Table 4-4Priorities Based on Asset Risk

4.4 Long-term Forecast

For many years, lifecycle costing has been used in the field of maintenance engineering and to evaluate the advantages of using alternative materials in construction or production design. The method has gained wider acceptance and has been used recently in the management of capital assets. By definition, lifecycle costs are all the costs which are incurred during the lifecycle of a capital asset, from the time it is purchased or constructed, to the time it is taken out of service for disposal. The stages which an asset goes through in its lifecycle are as follows:



In defining the long-term forecast for the Municipality's asset management strategy, costs incurred through an asset's lifecycle were considered and documented.

Asset Replacement Analysis

In forecasting the Municipality's asset replacement needs, comparisons were made between the following scenarios:

- Scenario 1: Replacement forecast based on "PSAB 3150 Asset Data"
 - Utilizing the PSAB 3150 inventory, year of installation and estimated service life, the replacement of each asset was projected.
- Scenario 2: Replacement forecast based on "Phased-in Approach";
 - In addition to using the installation date, estimated useful life, the LOS, condition information and staff identified priorities were used, where applicable to better predict the timing of replacement. Results were smoothed over the forecast period.

Scenario 1: Replacement forecast based on "PSAB 3150 Asset Data"

The replacement forecast based on the PSAB 3150 asset data provides a snapshot of assets at or nearing the end of their useful lives from a purely financial accounting perspective.

Figures 4-2 to 4-4 below show the forecasts over a 10 year period, where approximately \$84.99 million (replacement cost) in tax supported capital assets, \$0 million in water capital assets and \$1.9 million in wastewater capital assets are showing as "immediate needs". For this scenario, this simply means that these assets have reached the end of their accounting useful lives. Please refer to Appendix E for charts and graphs depicting the entire 20 year forecast for this scenario.

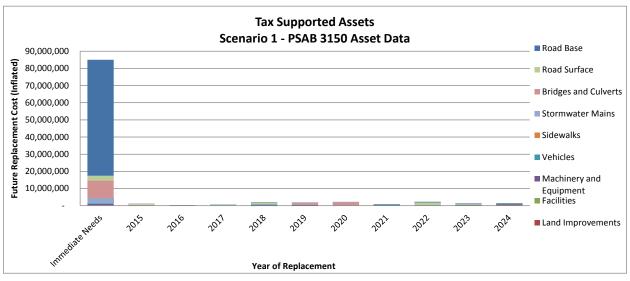


Figure 4-2 10 Year Forecast

Figure 4-3 10 Year Forecast

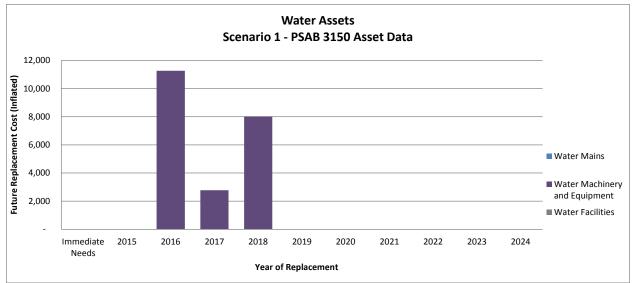
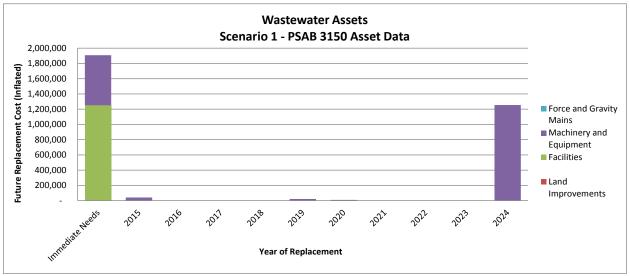


Figure 4-4 10 Year Forecast



Scenario 2: Replacement forecast based on "Phased-In Approach"

Within this scenario, adjustments were made based on discussions with staff and items that had been identified under the previous scenario have been distributed within the forecast period. The result of these adjustments is, \$0 of tax supported capital assets, water capital assets and wastewater capital assets are identified as "immediate needs". Figures 4-8 to 4-10 show the 10 year forecasts under this scenario.

This is the recommended scenario for the Municipality, and should be reviewed and revised as necessary by Municipal staff as part of annual budget deliberations. This scenario allows for a

4-7

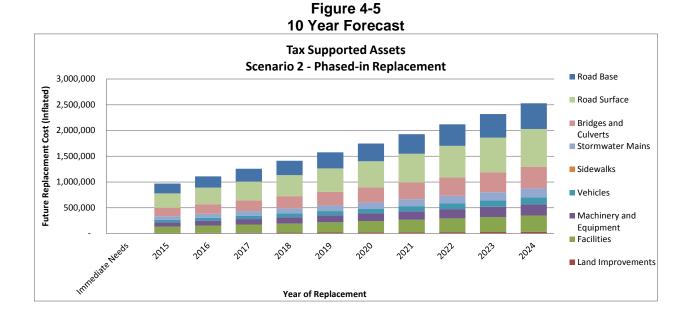
gradual increase in capital investments over the forecast period, with Municipal staff using the risk/priority rankings described in this chapter as a basis for selecting specific project timing.

Please refer to Appendix E for charts and graphs depicting the entire 20 year forecast for this scenario. A total of \$56.35 million in tax supported, \$2.7 million in water capital and \$3.9 million in wastewater capital replacement needs are identified over the 20 year forecast period (\$16.96 million, \$22,100 and \$2.3 million respectively in the first 10 years).

Maintenance, Non-Infrastructure Solutions, Renewal & Rehabilitation

For the recommended scenario to be feasible, the level of service adjustments discussed in Chapter 3 and Appendix D are required in conjunction with current level of service amounts in order to effectively maintain and rehabilitate the assets as needed. Appendix D provides additional rehabilitation and maintenance requirements over the forecast period.

The financing strategy discussed in the next Chapter will incorporate the level of service adjustments outlined in Appendix D into the recommended financing analysis. In addition, expansion related needs will be layered into the forecast to determine total capital needs for each year.





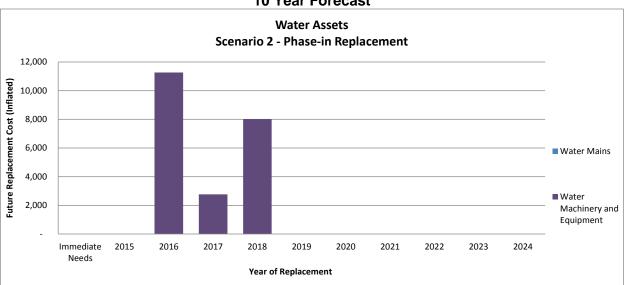
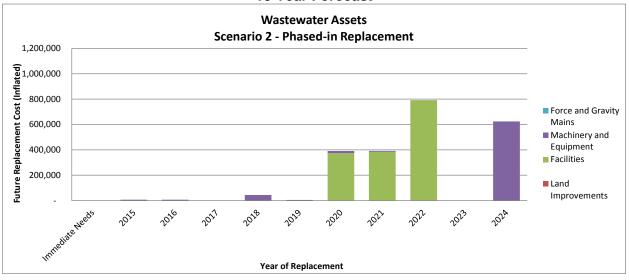


Figure 4-6 10 Year Forecast

Figure 4-7 10 Year Forecast



4.5 Procurement Methods

Section 270(1) of the Municipal Act, S.O. 2001, provides that municipalities (and local boards) shall adopt and maintain policies with respect to its procurement of goods and services. Procurement policies are developed to provide a framework to support open, fair, transparent and accountable purchasing processes, and to ensure procurement processes are consistently managed. Moreover, the establishment of a by-law adopting the procurement policy provides a document which has the approval of Council, which allows an opportunity for public debate.

An effective procurement policy assists municipalities in identifying cost-effective options for providing services, while at the same time reducing risk. Innovative project management

models, such as public-private partnerships (P3's) or co-operative purchasing, can help bring together expertise, resources and funding opportunities. Where appropriate, bidders can be required to provide lifecycle costing for the products and/or services being tendered. Lifecycle costs can include initial construction/purchase price, plus operating costs for a contracted period of time. Incorporating a lifecycle perspective in the procurement process can encourage effective asset management in the time period following the initial capital investment.

In order to have an effective and efficient procurement program, especially related to the purchase/construction of large capital assets, the procurement policy can include clauses to protect the Municipality, as well as assist in receiving competitive responses. Examples include:

- Identification of the criteria used to determine the type of competitive process to be followed (i.e. tender, RFP, RFQ);
- Identification of circumstances when Sole Sourcing, Negotiation, and/or In-House Bids can be used;
- Description of the methods to be used for advertising a competitive process;
- Providing direction for purchasing in cases of emergency;
- Providing direction for purchasing as part of a co-operative purchasing group;
- Outlining any requirements related to bid deposits or other financial security;
- Inclusion of a non-discrimination clause highlighting positions such as having a 'no local preference' policy;
- Notification that any bid can be rejected by the Municipality;
- Identification of reasons for terminating a contract with a supplier/contractor (i.e. poor performance, unethical behaviour);
- Identification of restrictions on the types and/or amounts of damages to which bidders may be entitled, arising from their responding to a competitive process; and
- Requirement for bidders to supply proof of insurance and WSIB.

As part of the continuous asset management update process, it is recommended that the Municipality's procurement policies and procedures be reviewed and compared against procurement best practices to ensure resources are being allocated in an efficient manner.

5. FINANCING STRATEGY

5. FINANCING STRATEGY

5.1 Scope and Process

The financing strategy outlines the suggested financial approach to funding the recommended asset management strategy outlined in Chapter 4, while utilizing the Municipality's existing budget structure. This section of the asset management plan includes:

- Annual expenditure forecasts broken down by:
 - o Maintenance/non-infrastructure solutions;
 - Renewal/rehabilitation activities;
 - Replacement/disposal activities; and
 - Expansion activities.
- Actual expenditures in the above named categories for 2012, 2013 and budget expenditures for 2014;
- A breakdown of annual funding/revenue by source;
- Identification of the funding shortfall, including how the impact will be managed; and
- All key assumptions are documented within Appendix B.

The long-term financing strategy forecast (including both expenditure and revenue sources) was prepared, consistent with the Municipality's departmental budget structure, so that it can be used in conjunction with the annual budget process. Various financing options, including taxation, reserves, reserve funds, debt, user fees and grants were considered and discussed with Municipal staff during the process. Figure 5-1 provides a visual representation of how various financing methods can be used for both initial asset purchases, as well as asset replacements.

For the recommended asset management strategy scenario, a detailed twenty (20) year plan was generated. The plan identifies specific maintenance & non-infrastructure solutions, renewal & rehabilitation, replacement & disposal, and expansion activities required for the 20 year forecast period as described in Chapter 4.

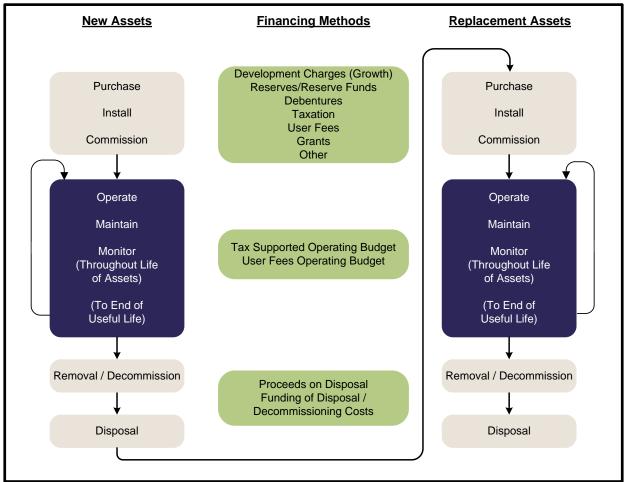


Figure 5-1 Financing Methods of Lifecycle Costs

5.2 <u>Historical Results</u>

Table 5-1 outlines the historical tax supported maintenance/non-infrastructure costs for 2012 and 2013, as well as 2014 budgeted results. All maintenance for assets was funded through taxation revenue for tax supported assets, water rates for water related assets and wastewater rates for wastewater related assets based on the Municipality's budget structure.

Table 5-1 Historical Results Maintenance & Non-Infrastructure Solutions

Tax Supported			
Description	Actual	Actual	Budget
	2012	2013	2014
Asset Maintenance	683,370	521,958	706,856
Taxation Funding	683,370	521,958	706,856
Net Unfunded	-	-	-
Water Services			
Description	Actual	Actual	Budget
Description	2012	2013	2014
Asset Maintenance	134,371	111,028	170,109
Water Rate Revenue	134,371	111,028	170,109
Net Unfunded	-	-	-
Wastewater Services			
Description	Actual	Actual	Budget
Description	2012	2013	2014
Asset Maintenance	92,099	103,113	120,327
Wastewater Rate Revenue	92,099	103,113	120,327
Net Unfunded	-	-	-

Tables 5-2 outlines the historical capital results for 2012, 2013 and budgeted results for 2014, including renewal/rehabilitation, replacement/disposal, and expansion. The capital funding includes the use of reserve/reserve funds, gas tax funds, grants, as well as contributions from the operating budget.

Table 5-2Tax Supported Historical ResultsRenewal/Rehabilitation, Replacement/Disposal & Expansion

Description	Actual 2012	Actual 2013	Budget 2014
<u>Capital Expenses</u>			
Administration	11,588	4,874	45,000
Protection	71,846	64,015	85,244
Transportation	352,147	579,765	557,000
Environmental	-	-	-
Health	-	-	-
Recreation and Cultural	97,092	218,169	121,790
Planning and Development	8,200	-	50,000
Other - Assist River St Project	-	60,000	-
Capital Expenditures	540,873	926,823	859,034
Capital Financing			
Provincial/Federal Grants	-	73,525	-
Debt	-	-	-
Fees and Charges	-	4,142	8,300
Alvinston Fire	10,332	11,301	12,132
Inwood Fire	6,377	3,449	7,893
Enniskellen Share Culvert	-	4,035	-
County Share of Culverts	17,978	-	-
Other	16,154	-	-
Current Fund	490,033	649,756	703,719
Reserves / Reserve Funds: General		-	50,000
Reserves / Reserve Funds: Gas Tax		150,615	-
Reserves / Reserve Funds: Inwood Drainage		30,000	-
Reserves / Reserve Funds: CC OyImpia		-	76,990
Total Capital Financing	540,873	926,823	859,034
Total Capital Expenditures less Capital Financing	-	-	-

5.3 Financing Strategy

Tax Supported

Table 5-3 shows the tax supported expenditure forecast for maintenance, renewal/rehabilitation, replacement/disposal and expansion for the first 10 years of the forecast. While this summary only shows high level cost classifications, further detail (including the full 20 year forecast) can be obtained from Appendix F.

Table 5-3Tax Supported Expenditure Forecast Summary

Asset Lifecycle Costs					Fore	cast				
Asset Ellecycle Costs	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Maintenance: Current Service Levels	720,993	735,413	750,121	765,124	780,426	796,034	811,955	828,194	844,758	861,653
Maintenance: LOS Adjustment	-	-	-	-	-	-	-	-	-	-
Total Asset Maintenance	720,993	735,413	750,121	765,124	780,426	796,034	811,955	828,194	844,758	861,653
Renewal/Rehabilitation/Replacement	968,982	1,108,946	1,256,436	1,411,777	1,575,308	1,747,380	1,928,358	2,118,623	2,318,568	2,528,603
Replacement/Disposal - LOS Adjustment	2,575	2,652	2,732	2,814	2,898	2,985	3,075	3,167	3,262	3,360
Total Replacement/Disposal	971,557	1,111,598	1,259,167	1,414,591	1,578,206	1,750,365	1,931,433	2,121,790	2,321,830	2,531,963
Total	1,692,550	1,847,011	2,009,289	2,179,714	2,358,632	2,546,399	2,743,388	2,949,984	3,166,588	3,393,616

Items in Table 5-3 labelled as "LOS Adjustment" refer to the level of service analysis discussed in Chapter 3 and Appendix D.

Table 5-4 summarizes the recommended strategy to finance the asset related costs identified in Table 5-3.

 Table 5-4

 Breakdown of Annual Tax Supported Funding (Revenue) by Source

Funding (Revenue) by Source					Fore	cast				
Funding (Revenue) by Source	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Taxation	720,993	735,413	750,121	765,124	780,426	796,034	811,955	828,194	844,758	861,653
Grants	-	-	-	-	-	-	-	-	-	-
Debentures	-	300,000	300,000	300,000	400,000	400,000	400,000	300,000	400,000	300,000
Gas Tax Reserve Funds	73,778	73,778	73,778	73,778	73,778	73,778	73,778	73,778	73,778	73,778
Capital Reserve Fund	897,778	737,820	885,389	1,040,812	1,104,427	1,276,586	1,457,655	1,748,012	1,848,052	2,158,184
Total	1,692,550	1,847,011	2,009,289	2,179,714	2,358,632	2,546,399	2,743,388	2,949,984	3,166,588	3,393,616

These lifecycle costs are being recovered through several methods:

- Taxation funding is suggested for all maintenance costs, as well as level of service adjustment related costs related to operations.
- Debt financing is shown as required in years where significant capital needs are identified.
- Gas Tax funding has been shown as a stable and long-term funding source for eligible capital projects.
- The Municipality will be dependent upon maintaining healthy capital reserves/reserve funds in order to provide the remainder of the required lifecycle funding over the forecast period. This will require the Municipality to proactively increase amounts being transferred to these capital reserves during the annual budget process.

While the annual funding requirement may fluctuate, it is important for the Municipality to implement a consistent, yet increasing annual investment in capital so that the excess annual funds can accrue in capital reserve funds.

In order to fund the recommended asset requirements over the forecast period using the Municipality's own available funding sources (i.e. using taxation, gas tax funding and debentures), an increase in the Municipality's taxation levy of 5.20% per year would be required for each year of the forecast period. This assumes that operating related accounts within the Municipality's budget will increase at 2% per year. However, if other funding sources become available (i.e. grant funding) or if maintenance and rehabilitation practices allow for the deferral of capital works, then the impact on the Municipality's taxation levy would decrease.

Water

Table 5-5 shows the water expenditure forecast for maintenance, renewal/rehabilitation, replacement/disposal and expansion for the first 10 years of the forecast. While this summary only shows high level cost classifications, further detail (including the full 20 year forecast) can be obtained from Appendix G.

Association and a Constant					Fore	cast				
Asset Lifecycle Costs	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Maintenance: Current Service Levels	173,511	176,982	180,521	184,132	187,814	191,571	195,402	199,310	203,296	207,362
Maintenance: LOS Adjustment	-	-	-	-	-	-	-	-	-	-
Total Asset Maintenance	173,511	176,982	180,521	184,132	187,814	191,571	195,402	199,310	203,296	207,362
Renewal/Rehabilitation/Replacement	-	11,263	2,773	8,021	-	-	-	-	-	-
Replacement/Disposal - LOS Adjustment	-	-	-	-	-	-	-	-	-	-
Total Replacement/Disposal	-	11,263	2,773	8,021	-	-	-	-	-	-
Total	173,511	188,244	183,294	192,153	187,814	191,571	195,402	199,310	203,296	207,362

Table 5-5Water Expenditure Forecast Summary

Items in Table 5-5 labelled as "LOS Adjustment" refer to the level of service analysis discussed in Chapter 3 and Appendix D

Table 5-6 summarizes the recommended strategy to finance the asset related costs identified in Table 5-5.

Table 5-6Breakdown of Annual Water Funding (Revenue) by Source

Funding (Bauanus) by Sauras					Fore	cast				
Funding (Revenue) by Source	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Water Rate Revenue	173,511	176,982	180,521	184,132	187,814	191,571	195,402	199,310	203,296	207,362
Grants	-	-	-	-	-	-	-	-	-	-
Debentures	-	-	-	-	-	-	-	-	-	-
Gas Tax Reserve Funds	-	-	-	-	-	-	-	-	-	-
Capital Reserve Fund	-	11,263	2,773	8,021	-	-	-	-	-	-
Total	173,511	188,244	183,294	192,153	187,814	191,571	195,402	199,310	203,296	207,362

These lifecycle costs are being recovered through several methods:

• Water rate revenue is suggested for all maintenance costs, as well as level of service adjustment related costs related to operations.

 The Municipality will be dependent upon maintaining healthy capital reserves/reserve funds in order to provide the remainder of the required lifecycle funding over the forecast period. This will require the Municipality to proactively increase amounts being transferred to these capital reserves during the annual budget process.

While the annual funding requirement may fluctuate, it is important for the Municipality to implement a consistent, yet increasing annual investment in capital so that the excess annual funds can accrue in capital reserve funds.

In order to fund the recommended asset requirements over the forecast period using the Municipality's own available funding sources (i.e. using water rate revenue and debentures), an increase in revenue (i.e. combination of growth and rate increases) of 25.0% per year would be required for each of the first two years of the forecast period, declining to 5.38% per year thereafter. The significant increases noted for the first two years are required for the water system to become self-sustaining over a two-year period, as currently the water system is being subsidized by taxation.

However, if other funding sources become available (i.e. grant funding) or if maintenance and rehabilitation practices allow for the deferral of capital works, then the impact on Municipality water rate revenue would decrease. In order to assess the impacts of the water rates specifically, a water rate study update would be required.

<u>Wastewater</u>

Table 5-7 shows the water expenditure forecast for maintenance, renewal/rehabilitation, replacement/disposal and expansion for the first 10 years of the forecast. While this summary only shows high level cost classifications, further detail (including the full 20 year forecast) can be obtained from Appendix H.

Asset Lifecycle Costs					Fore	cast				
Asset Ellecycle Cosis	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Maintenance: Current Service Levels	122,733	125,188	127,692	130,245	132,850	135,507	138,217	140,982	143,801	146,677
Maintenance: LOS Adjustment	-	-	-	-	-	-	-	-	-	-
Total Asset Maintenance	122,733	125,188	127,692	130,245	132,850	135,507	138,217	140,982	143,801	146,677
Renewal/Rehabilitation/Replacement	7,505	6,670	-	44,323	5,098	391,445	392,300	792,208	-	624,385
Replacement/Disposal - LOS Adjustment	-	-	-	-	-	-	-	-	-	-
Total Replacement/Disposal	7,505	6,670	-	44,323	5,098	391,445	392,300	792,208	-	624,385
Total	130,239	131,858	127,692	174,568	137,948	526,953	530,517	933,190	143,801	771,063

Table 5-7 Wastewater Expenditure Forecast Summary

Items in Table 5-7 labelled as "LOS Adjustment" refer to the level of service analysis discussed in Chapter 3 and Appendix D.

Table 5-8 summarizes the recommended strategy to finance the asset related costs identified in Table 5-7.

Funding (Revenue) by Source					Fore	cast				
Funding (Revenue) by Source	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Wastewater Rate Revenue	122,733	125,188	127,692	130,245	132,850	135,507	138,217	140,982	143,801	146,677
Grants		-	-	-	-	-	-	-	-	-
Debentures		-	-	-	-	100,000	300,000	650,000	-	400,000
Gas Tax Reserve Funds		-	-	-	-	-	-	-	-	-
Capital Reserve Fund	7,505	6,670	-	44,323	5,098	291,445	92,300	142,208	-	224,385
Total	130,239	131,858	127,692	174,568	137,948	526,953	530,517	933,190	143,801	771,063

Table 5-8Breakdown of Annual Wastewater Funding (Revenue) by Source

These lifecycle costs are being recovered through several methods:

- Wastewater rate revenue is suggested for all maintenance costs, as well as level of service adjustment related costs related to operations.
- Debt financing is shown as required in years where significant capital needs are identified.
- The Municipality will be dependent upon maintaining healthy capital reserves/reserve funds in order to provide the remainder of the required lifecycle funding over the forecast period. This will require the Municipality to proactively increase amounts being transferred to these capital reserves during the annual budget process.

While the annual funding requirement may fluctuate, it is important for the Municipality to implement a consistent, yet increasing annual investment in capital so that the excess annual funds can accrue in capital reserve funds.

In order to fund the recommended asset requirements over the forecast period using the Municipality's own available funding sources (i.e. using wastewater rate revenue and debentures), an increase in revenue (i.e. combination of growth and rate increases) of 30% per year would be required for each of the first two years of the forecast period, declining to 7.26% thereafter. The significant increases noted for the first two years are required for the wastewater system to become self-sustaining over a two-year period, as currently the wastewater system is being subsidized by taxation.

However, if other funding sources become available (i.e. grant funding) or if maintenance and rehabilitation practices allow for the deferral of capital works, then the impact on Municipality wastewater rate revenue would decrease. In order to assess the impacts of the wastewater rates specifically, a wastewater rate study update would be required.

5.4 Funding Shortfall

Assuming the Municipality maintains adequate capital reserve funds, the recommended asset management strategy discussed in Chapter 4 will be fully funded. It is believed this can be accomplished through each annual budget process. However, the recommended asset management strategy does defer significant capital replacements, in comparison to recommendations stated in various Municipality asset related reports. In the event that certain deferred replacements result in increased risks and/or projected asset failures, further funding may be required to address the costs associated with accelerating replacement timelines. In addition, in the event that the Municipality is not successful in recent grant applications, additional funding would be required in the short-term.

A fundamental approach to calculating the cost of using a capital asset and for the provision of the revenue required when the time comes to retire and replace it is the "sinking fund method". This method first estimates the future value of the asset at the time of replacement, by inflating the current value of the asset at an assumed annual capital inflation rate. A calculation is then performed to determine annual contributions which, when invested in a reserve fund, will grow with interest to a balance equal to the future replacement cost. The contributions are calculated such that they also increase annually with inflation. Under this approach, an annual capital investment amount is calculated where funds are available for short-term needs while establishing a funding plan for long-term needs. Annual contributions in excess of capital costs in a given year would be transferred to a "capital replacement reserve fund" for future capital replacement needs. This approach provides for a stable funding base, eliminating variances in annual funding requirements, particularly in years when capital replacement needs exceed typical capital levy funding. Please refer to Figure 5-2 for an illustration of this method.

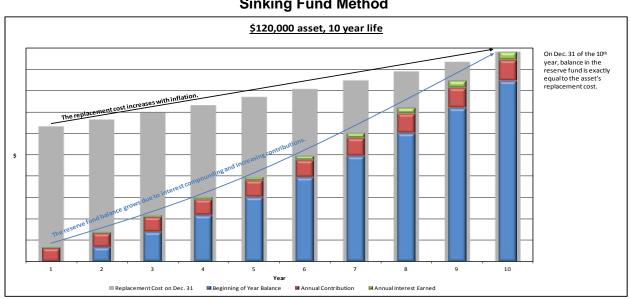


Figure 5-2 Sinking Fund Method

Watson & Associates Economists Ltd.

Tax Supported

From a tax supported asset base perspective, the estimated annual sinking fund requirement, based on using the calculations discussed above, is approximately \$3.62 million (in 2014 dollars). Based on the Municipality's 2014 budget, current annual capital investment is approximately \$1.02. This would provide a high level estimate of the Municipality's annual tax supported infrastructure funding deficit at \$2.59 million (in 2013 dollars).

<u>Water</u>

From a water asset base perspective, the estimated annual sinking fund requirement, based on using the calculations discussed above, is approximately \$370,000 (in 2014 dollars). Based on the Municipality's 2014 budget, current annual capital investment is approximately \$0. This would provide a high level estimate of the Municipality's annual water infrastructure funding deficit at \$370,000 (in 2014 dollars).

<u>Wastewater</u>

From a wastewater asset base perspective, the estimated annual sinking fund requirement, based on using the calculations discussed above, is approximately \$393,000 (in 2014 dollars). Based on the Municipality's 2014 budget, current annual capital investment is approximately \$0. This would provide a high level estimate of the Municipality's annual wastewater infrastructure funding deficit at \$393,000 (in 2014 dollars).

Under the recommended financing strategy, the Municipality would be making proactive attempts to mitigate these funding gaps over the forecast period. Please see Figures 5-3 to 5-5 below for a 10 year forecast of implementing this strategy for tax supported, water and wastewater assets respectively. The blue portion of the graph outlines the current capital investment amounts, increasing at inflation over the forecast period. The red portion indicates the result of implementing recommended increases in available funding sources (resulting in increases in capital investment annually). The green represents optimal annual capital investment amounts (calculated as described above). Please note "optimal" capital investment funding can come from a number of additional sources, such as grants, donations, debt and other contributions. Please refer to Appendices F (tax supported), G (water) and H (wastewater) for 20 year versions of these graphs, indicating that if recommended annual funding levels are achieved, the annual infrastructure funding gap would be eliminated during the forecast period.

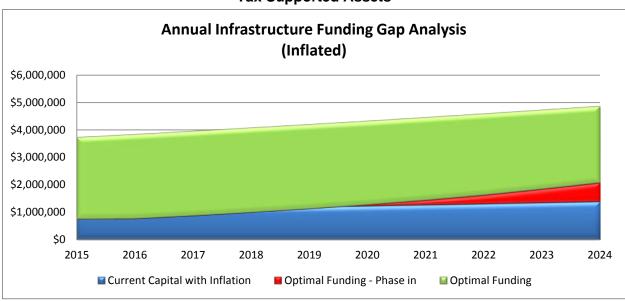


Figure 5-3 Tax Supported Assets

Figure 5-4 Water Assets

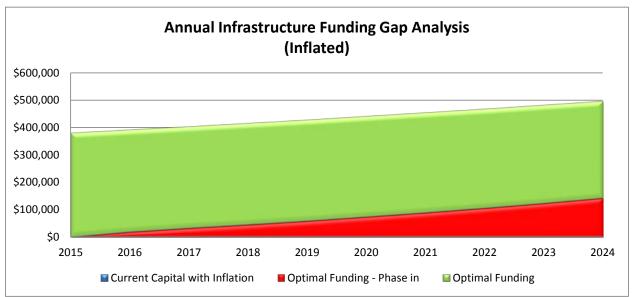
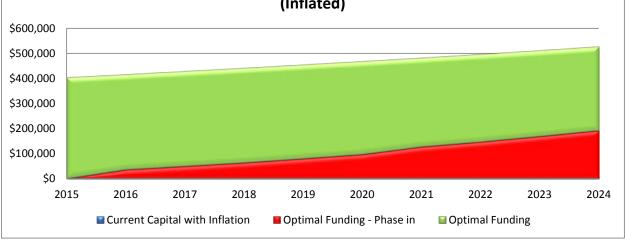


Figure 5-5 Wastewater Assets Annual Infrastructure Funding Gap Analysis (Inflated)



To further mitigate the potential infrastructure funding deficit, the Municipality could consider:

- Decreasing expected levels of service to make available capital funding;
- Issuing debt for significant and/or unforeseen capital projects, in addition to the debt recommended within this report, while staying within the Municipality's debt capacity limits (this would have the impact of spreading out the capital repayment over a defined term);
- Actively seeking out and applying for grants;
- Consider approaching the development community for funding assistance with respect to growth/expansion related projects;
- Rate increases, where needed (i.e. taxation, user fees); or
- Implementing operating efficiencies (i.e. reduced operating costs to allow more capital investment).

6. **RECOMMENDATIONS**

6. **RECOMMENDATIONS**

The following recommendations have been provided for consideration:

- That the Municipality of Brooke-Alvinston Asset Management Plan be received and approved by Council;
- That consideration of this Asset Management Plan be made as part of the annual budgeting process to ensure sufficient capital funds are available to fund capital requirements; and
- That this Asset Management plan be updated as needed over time to reflect the current priorities of the Municipality.

The current level of funding for asset replacement and renewal at the Municipality will not sufficiently fund capital needs or close the infrastructure funding gap. As such, it is recommended that the following additional recommendations be considered during the annual budget process:

- Initiation of "level of service" (LOS) strategies discussed in Chapters 3, 4 and Appendix D;
- An increase in taxation as part of upcoming budget deliberations, dedicated to capital, to be transferred to capital reserve(s);
- Water and wastewater revenue increases consistent with the calculations provided in this report and should be verified through a rate study/financial plan project in the future;
- Allocating a portion (i.e. at least 50%) of any annual operating surplus to applicable capital reserve funds;
- Consider the capital priorities identified within this report when applying for future grants;
- When annual budget savings are realized from fully paying debt obligations, these budget savings are to be invested in future capital needs; and
- Increase the accuracy of the asset data (i.e. valuation, condition, useful life, remaining service life, etc...) in order to increase the accuracy of the overall asset management plan.

Substantial investment in capital needs will be required over the forecast period. Through the recommendations provided above, proactive steps would be taken to increase capital investment, as well as reduce the annual infrastructure funding gap for these assets. Enhanced level of service will assist in maintaining adequate asset conditions, mitigate asset risk, as well as potentially defer capital needs within the forecast period. In addition, the Municipality should pursue available capital grants, wherever possible, to further reduce the infrastructure funding gap.

Through the creation of this plan, Municipal staff have been provided with a model in which amendments and revisions can be made as needed. It is anticipated that the final plan adopted by Council will be monitored and updated frequently by Municipal staff as part of the budget process, with refinements and specific recommendations being provided with respect to the priority of each individual project.

APPENDIX A DETAILED ASSET INVENTORY

TAX SUPPORTED CAPITAL ASSETS

A-1

A-2

		Asset Description				Asset Age an	d Useful Life				Financial Infor	mation		Condition Doting			Numerical	
Department	Asset ID	Asset Description	Location	In Service Date	Useful Life	Remaining Useful Life	AM Useful Life	AM Remaining Useful Life	Age	Historical Cost Dec. 31, 2013	Accumulated Amortization Dec. 31, 2013	Net Book Value Dec. 31, 2013	Replacement Cost (2014\$) Inflated	Condition Rating (Based on Age) 0 to 5	Probability of Failure	Consequence of Failure	Risk of Failure	Risk of Failure
															5	5	25	
										\$ 375,589	\$ 213,854	\$ 161,736	589,624					
Fire Services	G-2010-0411-0001	GROUNDS IMPROVEMENTS	ALVINSTON FIRE HALL	1992	20	0	20	0	22	5,646	5,646	-	8,616	0	5	2	10	M
Fire Services		LAND IMPROVEMENTS - Concrete Work (hydrant)	ALVINSTON FIRE HALL	2011	20	17	50	47	3	1,558	234	1,324	1,651	5	1	2	2	L
Fire Services		LAND IMPROVEMENTS - Concrete Work (rear pad)	ALVINSTON FIRE HALL	2012	20	18	50	48	2	3,762	376	3,385	3,947	5	1	2	2	L
Parks and Rec	G-2010-1635-0002	FENCING (FROM INS)	COMMUNITY CENTER GROUNDS	1980	20	0	20	0	34	40,515	40,515	-	121,490	0	5	2	10	M
Parks and Rec	G-2010-1635-0100	LIGHTING	COMMUNITY CENTER GROUNDS/INWOOD	1980	30	0	30	0	34	41,981	41,981	-	125,886	0	5	2	10	M
Parks and Rec	G-2010-1635-0003	BASEBALL DUGOUTS	COMMUNITY CENTER GROUNDS	1980	30	0	30	0	34	8,118	8,118	-	24,343	0	5	2	10	M
Parks and Rec	G-2010-1635-0200	PLAYGROUND EQUIPMENT	COMMUNITY CENTER GROUNDS	2006	10	2	10	2	8	20,349	16,279	4,070	23,774	1	4	2	8	М
Parks and Rec	G-2010-1635-0200	PLAYGROUND SOFT SURFACE	COMMUNITY CENTER GROUNDS	2006	10	2	10	2	8	24,666	19,733	4,933	28,818	1	4	2	8	M
Parks and Rec	G-2010-1635-0002	FENCING	BAI COMMUNITY CENTER	2006	20	12	20	12	8	2,896	1,158	1,738	3,383	3	2	2	4	L
Parks and Rec	G-2010-1635-0100	LIGHTING UPGRADES	BALL DIAMOND	2007	5	0	5	0	7	2,314	2,314	-	2,653	0	5	2	10	М
Parks and Rec	G-2010-1635-0210	SKATE BOARD PARK	COMMUNITY CENTER GROUNDS	2008	10	4	15	9	6	68,663	41,198	27,465	77,382	3	2	2	4	L
Parks and Rec		EXPANSION OF PLAYGROUND	COMMUNITY CENTER GROUNDS	2009	10	5	10	5	5	47,688	23,844	23,844	53,313	3	2	2	4	L
Parks and Rec		NEW LIGHTING BALL DIAMONDS	COMMUNITY CENTER GROUNDS	2012	30	28	30	28	2	57,656	3,844	53,813	60,493	5	1	2	2	L
Parks and Rec		FENCING	INWOOD	2009	20	15	20	15	5	11,572	2,893	8,679	12,937	4	1	2	2	L
Parks and Rec		NEW LIGHTING BALL DIAMOND	INWOOD	2010	30	26	30	26	4	24,976	3,330	21,646	27,036	4	1	2	2	L
Comm. Improv.		BENCHES	ALVINSTON	2011	20	17	20	17	3	2,035	305	1,730	2,156	4	1	2	2	L
Comm. Improv.		SWING	ALVINSTON	2012	10	8	10	8	2	8,245	1,649	6,596	8,651	4	1	2	2	L
Comm. Improv.		GAMES TABLE	ALVINSTON	2012	20	18	20	18	2	1,526	153	1,373	1,601	5	1	2	2	L
Comm. Improv.		BULLETIN BOARD	ALVINSTON	2012	10	8	10	8	2	1,425	285	1,140	1,495	4	1	2	2	L
																		1

		Asset Description						RSMeans All	location								Asset Age and	l Useful Life				Fin	ancial Information			1 /	1 /			
Department	Asset ID	Asset Description	Location	Building Type	Total Component Replacement Percentage	Windows and Doors	Roofing	Interiors	Conveying (Elevators)	Special Construction	Plumbing	HVAC	Fire Protection	Electrical	In Service Date	Useful Life	Remaining Useful Life	AM Useful Life	AM Remaining Useful Life	Age	Historical Cost Dec. 31, 2013	Accumulated Amortization Dec. 31, 2013	Net Book Value Dec. 31, 2013	Replacement Cost (2014\$) Inflated	Replacement Cost of Select Building Components	Condition Rating (Based on Age)	Probability of Failure	Consequence of Failure	of Numerical Risk of Failu	
																										_	5	5	25	
																					\$ 3,268,656	\$ 1,135,3	. , , .	. , ,,		4 . I	1 . '		12	
Administration	G-2020-0250-0001	MUNICIPAL OFFICES	MUNICIPAL OFFICE	Town Hall, Two Storey	25.0%	2.5%	0.0%	0.0%	0.0%		4.6%	0.0%	4.8%	13.1%	1953 2011	75	14 72	75	14	61	95,623	77,7		1,410,56		1	4	3	12	
Administration		BUILDING RENOVATIONS	MUNICIPAL OFFICE MUNICIPAL OFFICE	Town Hall, Two Storey	49.9%	2.5%	1.6%	23.3%	0.0%		4.6%	100.0%	4.8%	13.1%	2011 2011	75	17	75	72 17	3	353,033	14,12		366,96				3		
Administration Administration		HVAC SYSTEM ELEVATOR (NEW)	MUNICIPAL OFFICE	Town Hall, Two Storey Town Hall, Two Storey	100.0%				100.0%			100.0%			2011	20	12	20 15	17	3	38,402 46,960	5,70		39,91 48.81			1	3	3	
Fire Services	G-2020-0411-0001	,	ALVINSTON FIRE HALL	Fire Hall, One Storey	45.9%	5.0%	5.6%	11.1%	0.0%		11.8%	0.000%	4.7%	7.8%	1992	75	53	75	53	22	121.277	35,5		247,28		-	1	3	3	
Fire Services			ALVINSTON FIRE HALL	Fire Hall, One Storey	0.0%	5.0%	5.0%	11.170	0.0%		11.0%	0.000 %	4.7 %	7.0%	2004	75	65	75	65	10	2,347	30,5		3.27		4	<u> </u>	3		
Fire Services	0-2020-0411-0002	BUILDING IMPROVEMENTS - Interior Painting	ALVINGTON FIRE HALL	Fire Hall, One Storey	100.0%			100.0%							2004	20	18	20	18	2	3.859	3		3,27			1	3	3	
Fire Services		BUILDING IMPROVEMENTS - Heater Repairs	ALVINGTON FIRE HALL	Fire Hall, One Storey	100.0%			100.078				100.0%			2012	10	9	10	0	1	4,689		69 4,220	4.75			1	3	3	
Fire Services	G-2030-0411-0000		ALVINGTON FIRE HALL	Fire Hall, One Storey	100.0%							100.0%			1992	20	0	20	0	22	12,881	12,8	4,220	26.26			5	3	15	
Public Works		STORAGE, MILL STREET	ALVINSTON	Warehouse	28.9%	1.4%	7.5%	8.6%	0.0%		0.0%	0.0%	0.0%	11.4%	1984	75	45	75	45	30	14,581	5,8			., .		2	3	6	-
Public Works		OFFICE GARAGE BROOKE LINE	BROOKE LINE	Garage, Repair	54.8%	3.7%	7.3%	7.4%	0.0%		6.9%	10.6%	5.9%	13.0%	1980	75	41	75	41	34	240,666	109,1		903.71		3 3	- 2	3	6	
Public Works		SAND/SALT SHED	BROOKE LINE	Garage, rrepair	25.0%	5.170	25.0%	7.470	0.078		0.376	10.076	5.576	13.078	1990	75	51	75	51	24	103.321	33.0		200.44		2 3	2	3	6	
Public Works			ELGIN/LORNE ST	Garage, Repair	48.9%	3.7%	7.3%	7.4%	0.0%		6.9%	10.6%	0.0%	13.0%	1949	75	10	75	10	65	16,402	14,2				-	4	3	12	
Public Works	G-2020-0520-0001	IMPROVEMENT GARAGE	ELGIN/LORNE ST	Garage, Repair	0.0%	0.170	1.070		0.070		0.070	10.070	0.070	10.070	2013	20	19	20	19	1	6.359	14,2	18 6.041	6.44		5	1	3	3	
Public Works		MTO OFFICE AND GARAGE	NAUVOO ROAD	Garage, Repair	47.5%	3.7%	0.0%	7.4%	0.0%		6.9%	10.6%	5.9%	13.0%	1962	75	23	75	23	52	31,036	21,5		371,30		2	3	3	9	-
Public Works	G-2020-0520-0511	IMPROVEMENT MTO GARAGE	NAUVOO ROAD	Garage, Ropan	100.0%	0.170	100.0%	1.170	0.070		0.070	10.070	0.070	10.070	2006	30	22	30	22	8	10,187	2.7		12,63			1	3	3	
Public Works			NAUVOO ROAD		25.0%		25.0%								1962	75	23	75	23	52	6,205	4.3		74.23			3	3	9	
ublic Works	G-2020-0520-0516		NAUVOO ROAD		25.0%		25.0%								1962	75	23	75	23	52	6,205	4,3		74,23			3	3	9	
Public Works	G-2020-0501-0001	NEW ROOF SHED	WORKS DEPT		0.0%		0.0%								2003	20	9	20	9	11	12.813	7.0		19.03		2	3	3	9	
Parks and Rec		ARENA & COMMUNITY CENTER	ALVINSTON	Rink, Hockey/Community Cen		2.2%	0.0%	15.0%	0.0%	15.0%		5.0%	3.1%	5.0%	1977	75	38	75	38	37	1.241.389	612,4		6.099.24		1 3	2	3	6	-
Parks and Rec	G-2020-1635-0001	BUILDING IMPROVEMENT - NEW COMMUNITY HALL WAS			100.0%	2.2.70	0.070	10.070	0.070	10.070	100.0%	0.070	0.170	0.070	2004	48	38	48	38	10	137,959	28,7		192,25		ð 4	1	3	3	
Parks and Rec		BUILDING INPROVEMENTS	BAI COMMUNITY CENTER		100.0%			100.0%							2010	45	41	45	41	4	27.927	2.4		30.21			1	3	3	
Parks and Rec		NEW DOOR LOCKS	BAI COMMUNITY CENTER		100.0%										2011	20	17	20	17	3	11.791	1.7	· · · · · · · · · · · · · · · · · · ·	12,25			1	3	3	
Parks and Rec		NEW ROOF	BAI COMMUNITY CENTER		100.0%		100.0%								2011	20	17	20	17	3	127.114	19.0		132.13			1	3	3	
Parks and Rec	G-2030-1635-0501	ROOF TOP AIR CONDITIONERS	BIACC ROOF OVER HALL		100.0%		100.070					100.0%			2008	20	14	20	0	6	40.973	12,2		43.45			1	3	3	
Parks and Rec		VENTILATION	BAI COMMUNITY CENTER		100.0%							100.0%			2011	5	2	5	0	3	4,783	2,8		4,97		-	3	3	9	
Parks and Rec	G-2021-1635-0001	NEW LIGHTING	BAICC ALL		100.0%							100.070		100.0%	2009	10	-	10	0	5	35.718	21,2		38,61			2	3	6	•••••
Parks and Rec	0 2021 1000 0001	INTERIOR BEAM PAINTING	BAI COMMUNITY CENTER	R	100.0%			100.0%						100.070	2011	20	17	20	17	3	35,553	5.3		36,95				3	3	
Parks and Rec		IMPROVEMENT - AIR EXCHANGER	BAI COMMUNITY CENTER		100.0%							100.0%			2013	10	9	10	9	1	7.610	7	61 6.849	7.71			1	3	3	
Parks and Rec		HALL UPGRADES	BAI COMMUNITY CENTER		100.0%			100.0%							2009	43	38	43	38	5	10,126	1.1	· · · · · · · · · · · · · · · · · · ·	10.94		·	1	3	3	
Parks and Rec	G-2020-1637-0010	CONCESSION BOOTH RENOVATIONS	BAI COMMUNITY CENTER		31.2%	2.8%	6.5%	5.0%	0.0%	0.0%	6.9%	0.0%	0.0%	10.0%	2000	45	38	45	38	7	6,799	1.0		7.90			1	3	3	_
Parks and Rec		CONCESSION UPGRADES	BAI COMMUNITY CENTER		100.0%										2009	43	38	43	38	5	1.672	1		1.80			1	3	3	
Parks and Rec	G-1639-2020-0001	WASHROOMS & SNACK BAR	INWOOD		31.2%	2.8%	6.5%	5.0%	0.0%	0.0%	6.9%	0.0%	0.0%	10.0%	1955	75	16	75	16	59	6,019	4,7	35 1,284	86,47	0 26,958	8 1	4	3	12	-
Parks and Rec		PICNIC SHELTER	INWOOD		100.0%										1985	50	21	50	21	29	16,843	9.7		45.40			3	3	9	
Parks and Rec		STORAGE BUILDING	INWOOD	Warehouse	28.9%	1.4%	7.5%	8.6%	0.0%		0.0%	0.0%	0.0%	11.4%	1955	75	16	75	16	59	583	4	59 124	8.37	5 2,422	2 1	4	3	12	-
Parks and Rec		SEWER	INWOOD		0.0%										2009	20	15	20	15	5	10.315	2.5	79 7.736	11.15	·	4	1	3	3	
Library		ORIGINAL BUILDING	ALVINSON RIVER STREE	TLibrary	39.3%	2.8%		16.1%	0.0%		5.0%		3.3%	12.1%	1985	75	46	75	46	29	35,905	13.8		96.79	•	3 3	2	3	6	
Library		NEW ADDITION TO LIBRARY	ALVINSON RIVER STREE		41.5%	2.8%	2.2%	16.1%	0.0%		5.0%		3.3%	12.1%	2005	75	66	75	66	9	132,918	15,9		175.93			1	3	3	
Library		NEW ROOF OLD LIBRARY SECTION	ALVINSON RIVER STREE		100.0%		100.0%			1	1	1			2005	25	16	25	16	9	5.145	1.8		6.81			2	3	6	
Library		FURNACE REPLACEMENT	ALVINSON RIVER STREE		100.0%					1		100.0%			2005	20	11	20	11	9	6,980	3.1		9.23			2	3	6	
Library	G-2020-1642-0001		INWOOD LIBRARY	Library	0.0%	1			1	1					2003	22	11	22	11	11	14,315	7.1				3	2	3	6	
Library	G-2020-1642-0002		INWOOD LIBRARY	Library	100.0%		100.0%			1	1	1			2008	30	24	30	24	6	2,718	5	.,	2.88		2 4	1	3	3	
Library	G-2020-1642-0001	BUILDING - IMPROVEMENT	INWOOD LIBRARY	Library	39.3%	2.8%		16.1%	0.0%		5.0%		3.3%	12.1%	2013	50	49	50	49	1	205,317	4.1		208.01			1	3	3	
Library	G2030-1642-0001	NEW FURNACE	INWOOD LIBRARY	Library	100.0%							100.0%			2005	20	11	20	11	9	2,199	9		2.91			2	3	6	
Comm. Improv.	22000 . 542 0001	GAZEBO	ALVINSTON	,	100.0%										2010	30	26	30	26	4	11.315	1.5		1.			1	3	3	-
		ELECTRICAL TO GAZEBO	ALVINSTON		100.0%									100.0%	2010		20	30	20	-	1.826	1,51	83 1.643	1.89			i			

		Asset Description					Asset Age an	nd Useful Life				Financial Infor	mation						
Department	Asset ID	Asset Description	Location	Financial Statements Category	In Service Date	Useful Life	Remaining Useful Life	AM Useful Life	AM Remaining Useful Life	Age	Historical Cost Dec. 31, 2013	Accumulated Amortization Dec. 31, 2013	Net Book Value Dec. 31, 2013	Replacement Cost (2014\$) Inflated	Condition Rating (Based on Age) 0 to 5	Probability of Failure	Consequence of Failure	Numerical Risk of Failure	Risk of Failure
																5	5	25	
Administration			MUNICIPAL OFFICE	FIXTURES	2001	20	7	20	7	13	\$ 1,662,420 17,128	\$ 1,110,671 11,133	\$ 551,749 5,995	\$ 2,135,817 22,139	2	3	2	6	1
Administration	G-2021-0250-0001	NEW LIGHTING	MUNICIPAL OFFICE	FIXTURES	2008	10	4	10	4	6	6,681	4,009	2,673	7,530	2	3	2	6	L
Administration		OFFICE CHAIRS	MUNICIPAL OFFICE	FIXTURES	2009	5	0	20	15	5	1,716	1,716	-	1,918	4	1	2	2	L
Administration Administration		COUNCIL CHAIRS NEW FILING SYSTEM CABINETS	MUNICIPAL OFFICE MUNICIPAL OFFICE	FIXTURES FIXTURES	2009 2012	5 10	0 8	20	15 18	5	1,180 3,806	1,180	- 3,045	1,319 3,993	4	1	2	2	L
Administration	G-2030-0250-0001	DIESEL GENERATOR	MUNICIPAL OFFICE	MACHINERY & EQUIPMENT	2005	20	11	20	10	9	17,720	5,724	11,996	21,038	3	2	2	4	L
Administration	G-2030-0250-0001	DIESEL GENERATOR	MUNICIPAL OFFICE	MACHINERY & EQUIPMENT	2006	20	12	20	12	8	5,900	2,360	3,540	6,893	3	2	2	4	L
Administration Administration	G-2031-0250-1100	EMERGENCY POWER SECURITY SYSTEM	MUNICIPAL OFFICE MUNICIPAL OFFICE	MACHINERY & EQUIPMENT IT, COMMUNICATIONS, SECURITY	2011 2005	10 10	7	10	7	3	4,830 2,489	1,449	3,381 249	5,116 2,955	4	4	2	2 8	L
Administration		KEYSTONE COMPLETE COMPUTER PROGRAMS ACC		IT, COMMUNICATIONS, SECURITY	2007	15	8	15	8	7	34,560	16,128	18,432	39,619	3	2	2	4	L
Administration		PHONE SYSTEM	MUNICIPAL OFFICE	IT, COMMUNICATIONS, SECURITY	2009	5	0	10	5	5	975	975	-	1,090	3	2	2	4	L
Administration Administration		AUDIO EQUIPMENT SECURITY SYSTEM	MUNICIPAL OFFICE MUNICIPAL OFFICE	IT, COMMUNICATIONS, SECURITY IT, COMMUNICATIONS, SECURITY	2011 2011	5	2	5	2	3	2,049 3,316	1,230	820 1,327	2,171 3,513	2 4	3	2	6	L
Administration		COMPUTERS & EQUIPMENT	MUNICIPAL OFFICE	IT, COMMUNICATIONS, SECURITY	2012	5	3	5	3	2	7,782	3,113	4,669	8,165	3	2	2	4	L
Administration	C 2020 0442 0040			IT, COMMUNICATIONS, SECURITY	2013	5	4	5	4	1	3,088	618	2,470	3,188	4	1	2	2	L
Fire Services Fire Services	G-2030-0413-0010	11 HP HONDA PORTABLE PUMP A/V SYSTEM	WATFORD FIRE HALL ALVINSTON FIRE HALL	MACHINERY & EQUIPMENT IT, COMMUNICATIONS, SECURITY	2006 2013	5 5	0 4	5	0 4	8	4,780 1,159	4,780	- 927	5,585 1,196	0 4	5	3	15 3	H L
Fire Services		AIR FILLER STATION	ALVINSTON FIRE HALL	MACHINERY & EQUIPMENT	2012	10	8	10	8	2	11,026	2,205	8,821	11,569	4	1	3	3	L
Fire Services			ALVINSTON FIRE HALL	MACHINERY & EQUIPMENT	2012	10	8	10	8	2	10,925	2,185	8,740	11,462	4	1	3	3	L
Fire Services Fire Services	G-2030-0411-0012	AIR FILLER SYSTEM BLITZFIRE COMBINATION (2.5 in nozzle)	INWOOD FIRE HALL ALVINSTON FIRE HALL	MACHINERY & EQUIPMENT MACHINERY & EQUIPMENT	2013 2007	10 5	9	10	9 5	1	7,777 2,369	778 2,369	6,999	8,028 2,716	5	1 3	3	3	L M
Fire Services	0 2000 0 111 0012	COMMUNICATIONS PORTABLES	INWOOD FIRE HALL	IT, COMMUNICATIONS, SECURITY	2010	5	1	5	1	4	3,097	2,477	619	3,352	1	4	3	12	M
Fire Services	G-2031-0411-0003	COMMUNICATIONS EQUIPMENT	ALVINSTON FIRE HALL	IT, COMMUNICATIONS, SECURITY	2005	5	0	5	0	9	2,957	2,957	-	3,510	0	5	3	15	Н
Fire Services Fire Services		COMMUNICATIONS EQUIPMENT COMMUNICATIONS EQUIPMENT	ALVINSTON FIRE HALL ALVINSTON FIRE HALL	IT, COMMUNICATIONS, SECURITY IT, COMMUNICATIONS, SECURITY	2011 2013	5	2 4	5	2	3	9,318 2,085	5,591	3,727 1,668	9,871 2,153	2	3	3	9	M
Fire Services	G-2031-0412-0000	COMMUNICATIONS TOWER & PORTABLES	INWOOD FIRE HALL	IT, COMMUNICATIONS, SECURITY	2002	5	0	5	0	12	1,397	1,397	-	1,769	0	5	3	15	Н
Fire Services	G-2030-0412-2003		INWOOD FIRE HALL	MACHINERY & EQUIPMENT	2004	10	0	10	0	10	791	791	-	956	0	5	3	15	Н
Fire Services Fire Services	G-2031-0412-0000		ALVINSTON FIRE HALL INWOOD FIRE HALL	MACHINERY & EQUIPMENT IT, COMMUNICATIONS, SECURITY	2010 2003	10	6 0	10	6	4	3,481 1,081	1,393 1,081	2,089	3,768 1,328	3	2	3	6 15	L
Fire Services	0-2031-0412-0000	COMPUTER	INWOOD FIRE HALL	IT, COMMUNICATIONS, SECURITY	2003	5	2	5	2	3	610	366	244	647	2	3	3	9	M
Fire Services		EQUIPMENT	INWOOD FIRE HALL	MACHINERY & EQUIPMENT	2007	5	0	5	0	7	11,120	11,120	-	12,748	0	5	3	15	Н
Fire Services Fire Services	G-2030-0412-0202	EQUIPMENT EQUIPMENT	INWOOD FIRE HALL	MACHINERY & EQUIPMENT MACHINERY & EQUIPMENT	2008 2009	5 10	0	5 10	0	6 5	4,161 423	4,161	- 212	4,690	0	5	3	15 6	H
Fire Services		EQUIPMENT GATE VALUE & OTHER SMALL EQUIP	INWOOD FIRE HALL	MACHINERY & EQUIPMENT	2009	10	5	10	5	5	2,215	1,108	1,108	2,477	3	2	3	6	L
Fire Services		EQUIPMENT JAWS OF LIFE	INWOOD FIRE HALL	MACHINERY & EQUIPMENT	2009	10	5	10	5	5	14,834	7,417	7,417	16,583	3	2	3	6	L
Fire Services Fire Services		EQUIPMENT TO FILL AIR TANKS 1/2 SHARE WITH ALV FURNITURE (TABLES AND CHAIRS)	ALVINSTON FIRE HALL	MACHINERY & EQUIPMENT FIXTURES	2009 2010	10 10	5	10	5	5 4	4,645	2,323	2,323 1,229	5,193 2,218	3	2	3	6	L
Fire Services		GAS POWER HONDA PUMP	INWOOD FIRE HALL	MACHINERY & EQUIPMENT	2010	5	1	5	1	4	687	550		744	1	4	3	12	M
Fire Services		GENERAL EQUIPMENT	ALVINSTON FIRE HALL	MACHINERY & EQUIPMENT	2012	5	3	5	3	2	5,852	2,341	3,511	6,140	3	2	3	6	L
Fire Services Fire Services	C 2020 0411 0000	GENERATOR GENERATOR (rescue truck)	ALVINSTON FIRE HALL ALVINSTON FIRE HALL	MACHINERY & EQUIPMENT MACHINERY & EQUIPMENT	2013 2003	10 10	9	10 15	9	1	4,335 2,320	433	3,901	4,474 2,851	5	1 4	3	3 12	L
Fire Services		HEARTSTART DEFIB	ALVINSTON FIRE HALL	MACHINERY & EQUIPMENT	2003	5	0	5	4	7	3,384	3,384	-	3,880	0	5	3	15	H
Fire Services		HI-VOL HOSE ETC	INWOOD FIRE HALL	MACHINERY & EQUIPMENT	2005	5	0	5	0	9	4,068	4,068	-	4,829	0	5	3	15	Н
Fire Services Fire Services	G-2030-0411-0003	HONDA ENGINE & FAN HOSES & VALVES	ALVINSTON FIRE HALL INWOOD FIRE HALL	MACHINERY & EQUIPMENT MACHINERY & EQUIPMENT	2001 2011	10 5	0	23	10	13 3	2,919 4,522	2,919 2,713	- 1,809	3,773	2	3	3	9	M
Fire Services	G-2030-0411-0013	MID-FORCE W/GRIP 1.5"	ALVINSTON FIRE HALL	MACHINERY & EQUIPMENT	2011	5	0	5	0	7	741	741		849	0	5	3	15	H
Fire Services		OFFICE EQUIPMENT	INWOOD FIRE HALL	IT, COMMUNICATIONS, SECURITY	2010	5	1	5	1	4	819	656	164	887	1	4	3	12	M
Fire Services Fire Services	G-2031-0412-0001	PAGERS PERSONNEL SAFETY EQUIP BUNKER GEAR	INWOOD FIRE INWOOD FIRE HALL	IT, COMMUNICATIONS, SECURITY MACHINERY & EQUIPMENT	2008 2012	5	0	5	0	6	4,097	4,097	- 4,145	4,618 7,248	0	5	3	15 6	Н
Fire Services	G-2030-0411-0101	PERSONNEL SAFETY EQUIPMENT	ALVINSTON FIRE HALL	MACHINERY & EQUIPMENT	2012	5	0	10	1	9	8,962	8,962		10,640	1	4	3	12	M
Fire Services		PERSONNEL SAFETY EQUIPMENT	ALVINSTON FIRE HALL	MACHINERY & EQUIPMENT	2005	5	0	10	1	9	2,051	2,051	-	2,435	1	4	3	12	М
Fire Services Fire Services		PERSONNEL SAFETY EQUIPMENT PERSONNEL SAFETY EQUIPMENT	ALVINSTON FIRE HALL INWOOD FIRE HALL	MACHINERY & EQUIPMENT MACHINERY & EQUIPMENT	2006 2001	5 5	0	10 5	2	8	3,314 3,977	3,314 3,977	-	3,871 5,140	1 0	4 5	3	12 15	M H
Fire Services		PERSONNEL SAFETY EQUIPMENT	INWOOD FIRE HALL	MACHINERY & EQUIPMENT	2001	5	0	5	0	13	1,330	1,330		1,684	0	5	3	15	H
Fire Services		PERSONNEL SAFETY EQUIPMENT	INWOOD FIRE HALL	MACHINERY & EQUIPMENT	2005	5	0	5	0	9	1,512	1,512		1,795	0	5	3	15	Н
Fire Services Fire Services		PERSONNEL SAFETY EQUIPMENT PERSONNEL SAFETY EQUIPMENT	INWOOD FIRE HALL INWOOD FIRE HALL	MACHINERY & EQUIPMENT MACHINERY & EQUIPMENT	2005 2006	5	0	5	0	9	824 7,828	824		979 9.146	0	5	3	15 15	H
Fire Services		PERSONNEL SAFETY EQUIPMENT	INWOOD FIRE HALL	MACHINERY & EQUIPMENT	2006	5	0	5	0	8	2,081	2,081	-	2,431	0	5	3	15	Н
Fire Services		PERSONNEL SAFETY EQUIPMENT	INWOOD FIRE HALL	MACHINERY & EQUIPMENT	2006	5	0	5	0	8	9,909	9,909	-	11,577	0	5	3	15	Н
Fire Services Fire Services	G-2030-0412-0100	PERSONNEL SAFETY EQUIPMENT PERSONNEL SAFETY EQUIPMENT BUNKER GEAR	INWOOD FIRE HALL ALVINSTON FIRE HALL	MACHINERY & EQUIPMENT MACHINERY & EQUIPMENT	2007 2013	5	0 4	5	0	7	8,830 3,919	8,830 784	- 3,135	10,123 4,045	0 4	5	3	15	H
Fire Services	G-2030-0411-0110	PERSONNEL SAFETY EQUIPMENT AIR PACKS	ALVINSTON FIRE HALL	MACHINERY & EQUIPMENT	2013	5	4	10	4	6	3,891	3,891	-	4,045	2	3	3	9	M
Fire Services	G-2030-0411-0111	PERSONNEL SAFETY EQUIPMENT AIR PACKS	ALVINSTON FIRE HALL	MACHINERY & EQUIPMENT	2009	5	0	10	5	5	6,536	6,536		7,307	3	2	3	6	L
Fire Services Fire Services		PERSONNEL SAFETY EQUIPMENT AIR PACKS PERSONNEL SAFETY EQUIPMENT AIR PACKS	ALVINSTON FIRE HALL ALVINSTON FIRE HALL	MACHINERY & EQUIPMENT MACHINERY & EQUIPMENT	2010 2011	5	1 2	10	6 2	4 3	361 8,472	288 5,083	72 3,389	390 8,975	3	2	3	<u>6</u> 9	L
Fire Services		PERSONNEL SAFETY EQUIPMENT AIR PACKS	ALVINSTON FIRE HALL	MACHINERY & EQUIPMENT	2011	5	3	5	3	2	5,472	2,188	3,389	5,740	3	2	3	6	L
Fire Services		PERSONNEL SAFETY EQUIPMENT AIR PACKS	ALVINSTON FIRE HALL	MACHINERY & EQUIPMENT	2013	5	4	5	4	1	16,781	3,356	13,425	17,322	4	1	3	3	L
Fire Services		PERSONNEL SAFETY EQUIPMENT BUNKER GEAR	ALVINSTON FIRE HALL		2008	5	0	10	4	6	12,382 12,553	12,382 12,553		13,954 14.033	2	3	3	9	M
Fire Services Fire Services	3-2030-0411-0005	PERSONNEL SAFETY EQUIPMENT BUNKER GEAR PERSONNEL SAFETY EQUIPMENT BUNKER GEAR	ALVINSTON FIRE HALL ALVINSTON FIRE HALL	MACHINERY & EQUIPMENT MACHINERY & EQUIPMENT	2009 2010	5	0	10 10	5	5 4	6,652	12,553	- 1,330	7,200	3	2	3	6	L
Fire Services		PERSONNEL SAFETY EQUIPMENT BUNKER GEAR	ALVINSTON FIRE HALL	MACHINERY & EQUIPMENT	2012	5	3	5	3	2	4,639	1,855	2,783	4,867	3	2	3	6	L
Fire Services	G-2030-0412-0105	PERSONNEL SAFETY EQUIPMENT BUNKER GEAR	INWOOD FIRE HALL	MACHINERY & EQUIPMENT	2007	5	0	10	3	7	10,012	10,012	-	11,477	2	3	3	9	М

	Asset Description					Asset Age an	d Useful Life				Financial Infor	mation					Numerical	
Department	Asset ID Asset Description	Location	Financial Statements Category	In Service Date	Useful Life	Remaining Useful Life	AM Useful Life	AM Remaining Useful Life	Age	Historical Cost Dec. 31, 2013	Accumulated Amortization Dec. 31, 2013	Net Book Value Dec. 31, 2013	Replacement Cost (2014\$) Inflated	Condition Rating (Based on Age) 0 to 5	Probability of Failure	Consequence of Failure	Numerical Risk of Failure	Risk of Failure
Fire Services	G-2030-0412-0105 PERSONNEL SAFETY EQUIPMENT BUNKER GEAR	INWOOD FIRE HALL	MACHINERY & EQUIPMENT	2008	5	0	10	4	6	5,785	5,785	-	6,520	2	3	3	9	М
Fire Services	PERSONNEL SAFETY EQUIPMENT BUNKER GEAR	INWOOD FIRE HALL	MACHINERY & EQUIPMENT	2009	5	0	10	5	5	2,917	2,917	-	3,261	3	2	3	6	L
Fire Services	PERSONNEL SAFETY EQUIPMENT BUNKER GEAR	INWOOD FIRE HALL	MACHINERY & EQUIPMENT	2010	5	1	10	6	4	1,612	1,290	322	1,745	3	2	3	6	L
Fire Services	PERSONNEL SAFETY EQUIPMENT BUNKER GEAR			2011	5	2	10	7	3	6,225	3,735	2,490	6,595	4	1	3	3	L
Fire Services Fire Services	G-2031-0412-0002 PROJECTOR - TRAINING EQUIP G-2021-0411-0001 RACK FOR CLOTHING AND BOOTS	INWOOD FIRE HALL ALVINSTON FIRE HALL	IT, COMMUNICATIONS, SECURITY FIXTURES	2008 2006	5 75	0 67	10 75	4 67	6 8	461 3,703	461 395	- 3,308	520 4,327	2	3	3	9	
Fire Services	G-2031-0411-0001 RADIO TOWER & ANTENNA	ALVINSTON FIRE HALL	IT. COMMUNICATIONS. SECURITY	1992	15	0	15	0	22	2,726	2,726	-	4,160	0	5	3	15	Н
Fire Services	G-2031-0412-0000 RADIO UPGRADE	INWOOD FIRE HALL	IT, COMMUNICATIONS, SECURITY	2003	10	0	10	0	11	6,331	6,331	-	7,779	0	5	3	15	Н
Fire Services	G-2031-0411-0002 RADIOS AND PAGERS	ALVINSTON FIRE HALL	IT, COMMUNICATIONS, SECURITY	2002	5	0	5	0	12	2,194	2,194	-	2,778	0	5	3	15	Н
Fire Services	G-2031-0411-0004 RADIOS AND PAGERS	ALVINSTON FIRE HALL	IT, COMMUNICATIONS, SECURITY	2006	5	0	5	0	8	5,726	5,726	-	6,690	0	5	3	15	Н
Fire Services	G-2031-0412-0000 RADIOS AND PAGERS	INWOOD FIRE HALL	IT, COMMUNICATIONS, SECURITY	2002	5	0	5	0	12	1,438	1,438	-	1,821	0	5	3	15	н
Fire Services Fire Services	G-2031-0412-0001 RADIOS AND PAGERS RADIOS AND PAGERS	INWOOD FIRE HALL INWOOD FIRE HALL	IT, COMMUNICATIONS, SECURITY IT, COMMUNICATIONS, SECURITY	2007 2011	5	0	5	0	7	1,853 5,675	1,853 3,405	2,270	2,124 6,012	0	5	3	15 9	M
Fire Services	RADIOS AND PAGERS	INWOOD FIRE HALL	IT, COMMUNICATIONS, SECURITY	2011	5	3	5	3	2	1,106	443	664	1,161	3	2	3	6	L
Fire Services	RESCUE AIR BAG SYSTEM	INWOOD FIRE HALL	MACHINERY & EQUIPMENT	2011	5	2	5	2	3	4,113	2,468	1,645	4,357	2	3	3	9	M
Fire Services	RESCUE SAW	INWOOD FIRE HALL	MACHINERY & EQUIPMENT	2010	5	1	5	1	4	2,126	1,701	425	2,302	1	4	3	12	М
Fire Services	G-2030-0411-0008 ROOF SAW	ALVINSTON FIRE HALL	MACHINERY & EQUIPMENT	2003	5	0	16	5	11	1,949	1,949	-	2,395	2	3	3	9	M
Fire Services	G-2030-0411-0014 SIMO PUMP & RELATED CONNECTIONS	ALVINSTON FIRE HALL		2008	5	0	5	0	6	15,918	15,918	-	17,939	0	5	3	15	H
Fire Services Fire Services	G-2031-0412-0000 TOWER TRAINING TV SYSTEM	INWOOD FIRE HALL INWOOD FIRE HALL	IT, COMMUNICATIONS, SECURITY MACHINERY & EQUIPMENT	2002	15 5	3	15 5	3	12 2	5,406 1,590	4,325	1,081 954	6,845 1,668	1	4	3	12 6	M
Fire Services	G-2030-0411-0016 VARIOUS EQUIPMENT	ALVINSTON FIRE HALL	MACHINERY & EQUIPMENT	2012 2009	5	3	5 10	5	5	1,590	7,110	954 7,110	1,668	3	2	3	6	
Fire Services	VARIOUS EQUIPMENT	ALVINSTON FIRE HALL	MACHINERY & EQUIPMENT	2003	10	6	10	6	4	7,009	2,803	4,205	7,587	3	2	3	6	L
Fire Services	VARIOUS EQUIPMENT	ALVINSTON FIRE HALL	MACHINERY & EQUIPMENT	2011	5	2	5	2	3	9,478	5,687	3,791	10,040	2	3	3	9	M
Public Works	1635 MASSEY FERGUSON LOADER AND MORE	COMMUNITY CENTER	MACHINERY & EQUIPMENT	2014	10	10	10	10	0	-	-	-	20,000	5	1	3	3	L
Public Works	G-2030-0633-0301 BOBCAT CT235, LOADER & MID MOUNT MOWER	COMMUNITY CENTER		2009	10	5	10	5	5	7,000	3,138	3,863					' '	
Public Works	G-2030-0600-0502 FUEL TANKS	ELGIN & TRUCK		2002	10	0	10	0	12	4,892	4,892	-	6,194	3	2	3	6	L
Public Works Public Works	G-2030-0632-0100 MASSEY FERGUSON TRACTOR/LOADER G-2030-0611-0001 GRADER CATERPILLAR MODEL 14G	WORKS DEPT WORKS DEPT	MACHINERY & EQUIPMENT MACHINERY & EQUIPMENT	1978 1993	10 20	0	10 20	0	36 21	16,000 187,712	16,000 177,712	- 10,000	57,745 281,969	0	5 4	2	5	M
Public Works	G-2030-0611-0001 SIKABER CATERPILLAR 140H GRADER	WORKS DEPT	MACHINERY & EQUIPMENT	1998	20	4	20	4	16	203,305	154,644	48,661	284,677	2	3	3	9	M
Public Works	G-2030-0600-0500 PORTABLE KOKIAK 5500 GENERATOR	WORKS DEPT	MACHINERY & EQUIPMENT	1999	15	0	15	0	15	2,916	2,916	-	4,004	0	5	2	10	M
Public Works	G-2030-0525-0001 MISC TOOLS, EQUIP (WELDER, SOCKETS, LIFTS)(INS	WORKS DEPT	MACHINERY & EQUIPMENT	2001	15	2	15	2	13	34,134	25,249	8,885	44,120	1	4	3	12	M
Public Works	G-2030-0600-0501 AUGER SEWER/DRAINS	WORKS DEPT	MACHINERY & EQUIPMENT	2002	15	3	15	3	12	5,001	4,001	1,000	6,332	1	4	3	12	M
Public Works	G-2030-0600-0503 LASER	WORKS DEPT		2003	10	0	10	0	11	5,533	5,033	500	6,799	0	5	1	5	L
Public Works Public Works	G-2030-0635-0500 BUSH HOG 3710 MOWER BUSH HOG	WORKS DEPT WORKS DEPT	MACHINERY & EQUIPMENT	2003 2014	10 10	0 10	12 12	1	11 0	13,875	12,875	1,000	17,050 13,000	5	5	3	3	L
Public Works	G-2030-0637-0301 SWEEPER BROOM	WORKS DEPT	MACHINERY & EQUIPMENT	2003	20	9	20	9	11	6,377	2,957	3,420	7,836	2	3	3	9	M
Public Works	G-2030-0600-0300 FARM KING 10' BLADE, 150 HP RATING	WORKS DEPT	MACHINERY & EQUIPMENT	2005	15	6	15	6	9	3,148	1,289	1,859	3,738	2	3	3	9	M
Public Works	G-2030-0635-0302 CAR HAULER	WORKS DEPT	MACHINERY & EQUIPMENT	2007	10	3	10	3	7	4,968	3,128	1,840	5,695	2	3	3	9	M
Public Works	G-2030-0660-0001 POWER WASHER	WORKS DEPT	MACHINERY & EQUIPMENT	2007	5	0	5	0	7	4,180	3,680	500	4,791	0	5	3	15	н
Public Works	G-2030-0631-0201 CASE BACKHOE C/O DETECTION SHOP	WORKS DEPT WORKS DEPT	MACHINERY & EQUIPMENT	2008	5	0	6 5	0	6	101,537	61,537	40,000	114,432	0	5	4	20 6	E
Public Works Public Works	UNDER GROUND LOCATOR	WORKS DEPT	MACHINERY & EQUIPMENT MACHINERY & EQUIPMENT	2012 2012	5	3	5	3	2	6,915 3,969	2,766	4,149 2,381	7,255	3	2	3	6	L .
Public Works	6430 JD TRACTOR LOADER	WORKS DEPT	MACHINERY & EQUIPMENT	2012	10	8	15	13	2	70,055	1,307	68,844	73,501	4	1	3	3	L
Public Works	G-2022-0560-0001 OFFICE CONTENTS	BROOKE LINE	FIXTURES	2001	20	7	20	7	13	5,263	3,421	1,842	6,803	2	3	3	9	M
Public Works	G-2031-0500-1000 COMMUNICATION RECEIVE & TRANSMIT (INS SCH)	WORKS DEPT	IT, COMMUNICATIONS, SECURITY	1980	15	0	30	0	34	5,919	5,919	-	17,749	0	5	3	15	Н
Public Works	G-2031-0500-1100 SECURITY SYSTEM	WORKS DEPT	IT, COMMUNICATIONS, SECURITY	2005	10	1	10	1	9	3,335	3,002	334	3,959	2	3	3	9	M
Parks and Rec	ROOF LADDER		BUILDINGS	2011	75	72	75	72	3	4,070	163	3,907	4,231	5	1	2	2	L
Parks and Rec Parks and Rec	G-2030-0411-0001 LISTER GENERATOR/TRAILER	Arena	BUILDINGS MACHINERY & EQUIPMENT	2011 2000	5 15	2 1	15 15	12	3 14	4,533 21,987	2,720 20,521	1,813 1,466	4,712 29,302	4	5	2	2	M
Parks and Rec	G-2022-1635-0001 SPECTATOR BLEACHERS		FIXTURES	1995	20	1	20	1	19	22,932	21,785	1,147	33,584	0	5	2	10	M
Parks and Rec	G-2030-1635-0001 ICE MAKING EQUIPMENT	BAI COMMUNITY CENTER	MACHINERY & EQUIPMENT	2005	10	1	10	1	9	54,338	48,904	5,434	64,511	1	4	2	8	M
Parks and Rec	G-2030-1635-0002 NEW BRINE CHILLER WITH MOTOR	BAICC - ARENA	MACHINERY & EQUIPMENT	2008	10	4	10	4	6	54,014	32,408	21,606	60,874	2	3	2	6	L
Parks and Rec		ARENA	MACHINERY & EQUIPMENT	1996	20	2	20	2	18	47,705	42,935	4,771	-	-	4	2		
Parks and Rec Parks and Rec	OLYMPIA ICE RESURFACER HOT WATER HEATER	ARENA ARENA	MACHINERY & EQUIPMENT MACHINERY & EQUIPMENT	2014 2009	20 10	20 5	20 10	20 5	0	5,248	2,624	2,624	79,000 5,867	5	2	2	2	L
Parks and Rec	MACHINERY & EQUIP	BAI COMMUNITY CENTER	MACHINERY & EQUIPMENT	2009	20	16	20	16	4	16,730	3,346	13,384	18,110	4	1	2	2	L
Parks and Rec	GENERATOR	BAI COMMUNITY CENTER	MACHINERY & EQUIPMENT	2011	10	7	13	10	3	9,932	2,980	6,952	10,521	3	2	3	6	L
Parks and Rec	HOT WATER HEATER	BAI COMMUNITY CENTER	MACHINERY & EQUIPMENT	2011	5	2	5	2	3	5,471	3,283	2,188	5,796	2	3	2	6	L
Parks and Rec	FLOOR SCRUBBER	BAI COMMUNITY CENTER	MACHINERY & EQUIPMENT	2012	5	3	5	3	2	6,798	2,719	4,079	7,132	3	2	2	4	L
Parks and Rec		BAI COMMUNITY CENTER		2012	5	3	5	3	2	3,885	1,554	2,331	4,076	3	2	2	4	L
Parks and Rec Parks and Rec	LAWN MOWER KUBOTA ZD331 CO DETECTION BLDING IMP	BAI COMMUNITY CENTER BAI COMMUNITY CENTER	MACHINERY & EQUIPMENT MACHINERY & EQUIPMENT	2012 2012	5 10	3	5 10	3	2	16,832 15,645	5,933 3,129	10,899 12,516	17,660 16,415	3	2	2	4	
Parks and Rec	G-2022-1635-0001 TABLES & CHAIRS	BAI COMMUNITY CENTER	FIXTURES	2006	10	2	10	2	8	1,040	832	208	1,215	1	4	2	8	M
Parks and Rec	CHRISTMAS DECORATIONS	ARENA	FIXTURES	2009	5	0	5	0	5	4,172	4,172	-	4,664	0	5	2	10	M
Parks and Rec	TABLES	BAI COMMUNITY CENTER	FIXTURES	2010	10	6	10	6	4	1,094	438	657	1,185	3	2	2	4	L
Parks and Rec	FURNITURE CHAIRS	BAI COMMUNITY CENTER	FIXTURES	2012	10	8	10	8	2	4,500	900	3,600	4,721	4	1	2	2	L
Parks and Rec		BAI COMMUNITY CENTER		2013	10	9	10	9	1	2,069	207	1,862	2,136	5	1	2	2	L
Parks and Rec Parks and Rec	G-2031-1635-0100 PROJECTOR, SCREEN, INSTALL INTERNET WIRING	BIA CC MAIN HALL ARENA OFFICE	IT, COMMUNICATIONS, SECURITY IT, COMMUNICATIONS, SECURITY	2008 2009	5	0	5	0	6 5	2,456 1,247	2,456	-	2,768 1,394	0	5	2	10 10	M
Parks and Rec	COMPUTER	BAI COMMUNITY CENTER	IT, COMMUNICATIONS, SECURITY	2009	5	1	5	1	4	1,247	1,247	- 303	1,642	1	4	2	8	M
Parks and Rec	FIRE ALARM SYSTEM	BAI COMMUNITY CENTER	IT, COMMUNICATIONS, SECURITY	2010	20	17	20	17	3	24,146	3,622	20,524	25,578	4	1	2	2	L
Parks and Rec	SECURITY SYSTEM	BAI COMMUNITY CENTER	IT, COMMUNICATIONS, SECURITY	2011	10	7	10	7	3	9,632	2,889	6,742	10,203	4	1	2	2	L
Parks and Rec	SECURITY CAMERA	BAI COMMUNITY CENTER	IT, COMMUNICATIONS, SECURITY	2013	10	9	10	9	1	2,700	270	2,430	2,787	5	1	2	2	L
Parks and Rec	SNACK BAR IMPROVEMENTS	INWOOD	MACHINERY & EQUIPMENT	2010	10	6	10	6	4	1,218	487	731	1,319	3	2	2	4	L

				Asset Age an	d Useful Life				Financial Inform	mation	Condition Rating			Numerical					
Department	Asset ID	Asset Description	Location	Financial Statements Category	In Service Date	Useful Life	Remaining Useful Life	AM Useful Life	AM Remaining Useful Life	Age	Historical Cost Dec. 31, 2013	Accumulated Amortization Dec. 31, 2013	Net Book Value Dec. 31, 2013	Replacement Cost (2014\$) Inflated	(Based on Age) 0 to 5	Probability of Failure	Consequence of Failure	Numerical Risk of Failure	Risk of Failure
Comm. Improv.		CHRISTMAS LIGHTING , DECORATIONS & BANNERS	ALVINSTON	MACHINERY & EQUIPMENT	2009	10	5	10	5	5	31,024	15,512	15,512	34,683	3	2	2	4	L
Comm. Improv.		CHRISTMAS LIGHTS	INWOOD	MACHINERY & EQUIPMENT	2012	10	8	10	8	2	8,200	1,640	6,560	8,603	4	1	2	2	L
Comm. Improv.	G-2021-1820-0001	HEXAGON PLANTERS (5)	RIVER STREET	FIXTURES	2006	20	12	20	12	8	1,250	500	750	1,460	3	2	2	4	L
Comm. Improv.	G-2021-1820-0002	ENTRANCE SIGNS (from analysis of disbursements)	NAUVOO RD & INWOOD RD	FIXTURES	2004	15	5	15	5	10	6,588	4,392	2,196	7,968	2	3	2	6	L
Comm. Improv.		GARBAGE CONTAINER	ALVINSTON	FIXTURES	2012	5	3	5	3	2	1,734	693	1,040	1,819	3	2	2	4	L
Public Works		STREET LIGHTS	ALVINSTON and INWOOD	MACHINERY & EQUIPMENT	2014	20	20	20	20	0				96,000	5	1	2	2	L
Public Works	I-2230-0751-0001	STREET LIGHTS ALVINSTON	169 LIGHTS	MACHINERY & EQUIPMENT	1980	50	16	50	16	34	57,839	39,331	18,508	-					
Public Works		STREET LIGHTS INWOOD	17 LIGHTS	MACHINERY & EQUIPMENT	1980	50	16	50	16	34	5,818	3,956	1,862	-					

Fire Services G-2040		Location	In Service Date	Useful Life	Remaining Useful Life	AM Useful Life	AM Remaining Useful Life	Age	Historical Cost Dec. 31, 2013	Accumulated Amortization	Net Book Value	Replacement Cost (2014\$)	Rating (Based on Age)	Probability of Failure	Consequence of Failure	Numerical Risk of Failure	Risk of Failure
		ALVINSTON FIRE HALL							Dec. 51, 2015	Dec. 31, 2013	Dec. 31, 2013	Inflated	0 to 5				
		ALVINSTON FIRE HALL												5	5	25	
		ALVINSTON FIRE HALL							\$ 1,532,089	\$ 765,915	\$ 766,175	\$ 2,189,003					
Fire Services G-2040	40-0411-0002 FREIGHTLINER FIRE PUMPER		1987	20	0	28	1	27	17,980	17,980	-	200,000	0	5	3	15	н
		ALVINSTON FIRE HALL	1998	20	4	22	6	16	149,705	119,764	29,941	300,000	1	4	3	12	M
Fire Services G-2040	40-0411-0001 RESCUE VAN	ALVINSTON FIRE HALL	2003	20	9	20	9	11	143,057	78,682	64,376	225,000	2	3	3	9	M
Fire Services	2011 FREIGHTLINER	ALVINSTON FIRE HALL	2011	20	17	30	27	3	191,187	28,678	162,509	240,000	5	1	3	3	L
Fire Services	BACK-UP CAMERAS	ALVINSTON FIRE HALL	2013	5	4	5	4	1	519	104	415	535	4	1	3	3	L
Fire Services G-2040	40-0413-0001 ASPHODEL TAKER 1400 GALLON (TANK ONLY)	WATFORD FIRE HALL	2006	20	12	20	12	8	50,017	16,007	34,010	58,436	3	2	3	6	L
Fire Services G-2040	40-0413-0001 ASPHODEL TAKER 1400 GALLON LIGHTING	WATFORD FIRE HALL	2006	20	12	20	12	8	3,676	1,470	2,206	4,295	3	2	3	6	L
Fire Services	2012 INTERNATIONAL 4300M7 SBA 4X2	WATFORD FIRE HALL	2011	25	22	25	22	3	76,200	8,544	67,656	80,721	4	1	3	3	L
Fire Services G-2040	40-0412-0002 1989 FORD CUBE VAN	INWOOD FIRE HALL	1990	20	0	20	0	24	9,529	9,529	-	15,285	0	5	3	15	н
Fire Services G-2040	40-0412-0002 2000 GMC PUMPER	INWOOD FIRE HALL	2000	20	6	20	6	14	111,484	78,039	33,445	148,575	2	3	3	9	M
Fire Services G-2040	40-0412-0001 2003 1400 GALLON GMC TANKER TRUCK	INWOOD FIRE HALL	2006	20	12	20	12	8	141,525	53,591	87,934	165,348	3	2	3	6	L
Public Works G-2040	40-0601-0101 STERLING TANDEM DUMP 2007	WORKS DEPT	2006	15	7	15	7	8	195,127	96,067	99,059	227,972	2	3	3	9	M
Public Works G-2040	40-0620-0200 2008 FORD F250 4X4 XL SUPERCAB	WORKS DEPT	2008	6	0	10	4	6	36,488	31,488	5,000	41,122	2	3	3	9	M
Public Works G-2040	40-0621-2020 FORD F150 PICKUP	WORKS DEPT	2009	6	1	10	5	5	18,144	13,453	4,691	20,284	3	2	3	6	L
Public Works	STERLING TANDEM DUMP 2000	WORKS DEPT	1999	15	0	15	0	15	162,471	162,471	-	223,100	0	5	3	15	Н
Public Works	2012 INTERNATIONAL 7600	WORKS DEPT	2011	15	12	15	12	3	208,143	41,629	166,514	220,492	4	1	3	3	L
Public Works	2011 CHEV SILVERADO 1500	WORKS DEPT/ARENA	2011	6	3	10	7	3	8,420	4,210	4,210	8,920	4	1	3	3	L
Parks and Rec	PICK UP TRUCK	BAI COMMUNITY CENTER	2011	6	3	10	7	3	8,419	4,210	4,210	8,919	4	1	2	2	L

					Assel Age an	d Useful Life				Financial Inforr	nation		Condition Dating					
Department	Asset ID	Asset Description	Location	In Service Date	Useful Life	Remaining Useful Life	AM Useful Life	AM Remaining Useful Life	Age	Historical Cost Dec. 31, 2013	Accumulated Amortization Dec. 31, 2013	tion Net Book Value Cost (2014\$)		Condition Rating (Based on Age) 0 to 5	Probability of Failure	Consequence of Failure	Numerical Risk of Failure	Risk of Failure
															5	5	25	
										\$ 221,355		. ,	\$ 246,653					
Public Works	2011	SIDEWALKS	ALVINSTON	2003	50	39	50	39	11	3,232	711	2,521	4,800	4	1	2	2	L
Public Works	2038		ALVINSTON	2003	50	39	50	39	11	2,222	489	1,733	3,300	4	1	2	2	L
Public Works	2013		ALVINSTON	2003	50	39	50	39	11	3,030	667	2,363	4,500	4	1	2	2	L
Public Works	W TO H		INWOOD	2003	50	39	50	39	11	1,212	267	945	1,800	4	1	2	2	L
Public Works	2010		ALVINSTON	2004	50	40	50	40	10	4,039	808	3,231	5,629	4	1	2	2	L
Public Works	2028		ALVINSTON	2004	50	40	50	40	10	1,307	261	1,046	1,821	4	1	2	2	
Public Works	2005		ALVINSTON	2004	50	40	50	40	10	2,138	428	1,710	2,979	4	1	2	2	
Public Works Public Works	3007 2029		INWOOD ALVINSTON	2004 2005	50 50	40 41	50 50	40 41	<u>10</u> 9	2,851 2,821	570 508	2,281 2,313	3,973 3,734	4	1	2	2	L
Public Works	2029		ALVINSTON	2005	50	41	50	41	9	3,224	580	2,313	4,267	4 4	1	2	2	
Public Works	3007		INWOOD	2005	50	41	50	41	9	4,836	870	3,966	6,401	4	1	2	2	
Public Works	2027		ALVINSTON	2006	50	42	50	42	8	1,976	316	1,660	2,451	4	1	2	2	
Public Works	2002		ALVINSTON	2006	50	42	50	42	8	1,235	198	1,037	1,532	4	1	2	2	-
Public Works	2037		ALVINSTON	2006	50	42	50	42	8	5,435	870	4,565	6,742	4	1	2	2	L
Public Works	3007		INWOOD	2006	50	42	50	42	8	2,965	474	2,491	3,678	4	1	2	2	L
Public Works	2029		ALVINSTON	2007	50	43	50	43	7	1,951	273	1,678	2,267	4	1	2	2	L
Public Works	NAUVOO		ALVINSTON	2007	50	43	50	43	7	4,182	585	3,597	4,860	4	1	2	2	L
Public Works	2001		ALVINSTON	2007	50	43	50	43	7	3,345	468	2,877	3,887	4	1	2	2	L
Public Works	2036.1		ALVINSTON	2007	50	43	50	43	7	2,788	390	2,398	3,240	4	1	2	2	L
Public Works	2011		ALVINSTON	2007	50	43	50	43	7	2,230	312	1,918	2,591	4	1	2	2	L
Public Works	2005		ALVINSTON	2007	50	43	50	43	7	2,509	351	2,158	2,916	4	1	2	2	L
Public Works	2006		ALVINSTON	2007	50	43	50	43	7	2,230	312	1,918	2,591	4	1	2	2	L
Public Works	2014		ALVINSTON	2007	50	43	50	43	7	2,091	293	1,798	2,430	4	1	2	2	L
Public Works	2000		ALVINSTON	2008	50	44	50	44	6	2,433	292	2,141	2,580	4	1	2	2	L
Public Works	2038		ALVINSTON	2008	50	44	50	44	6	4,316	518	3,798	4,577	4	1	2	2	L
Public Works	2039		ALVINSTON	2008	50	44	50	44	6	5,493	659	4,834	5,826	4	1	2	2	L
Public Works	2040		ALVINSTON	2008	50	44	50	44	6	3,924	471	3,453	4,162	4	1	2	2	
Public Works	2041		ALVINSTON ALVINSTON	2009	50	45	50	45	5 4	5,749	575	5,174	6,216	5	1	2	2	
Public Works	2048			2010	50	46	50	46	4	5,484 5,484	439 439	5,045	5,934 5,934	5	1	2	2	
Public Works Public Works	2047		ALVINSTON ALVINSTON	2010 2010	50 50	46 46	50 50	46 46	4	3,490	279	5,045 3,211	3,776	5 5	1	2	2	L
Public Works	2048		ALVINSTON	2010	50	40	50	40	4	2,119	170	1,949	2,293	5	1	2	2	
Public Works	3007		INWOOD	2010	50	40	50	46	4 4	5,982	479	5,503	6,472	5	1	2	2	
Public Works	INW RD	SIDEWALK MCNALLY TO MOORE	INWOOD	2010	50	40	50	46	4	12,961	1,037	11,924	14,024	5	1	2	2	
Public Works	2033		ALVINSTON	2010	50	40	50	40	3	9,727	584	9,143	10,111	5	1	2	2	L
Public Works	2034		ALVINSTON	2011	50	47	50	47	3	2,748	165	2,583	2,856	5	1	2	2	L
Public Works	2004 PART		ALVINSTON	2011	50	47	50	47	3	10,130	608	9,522	10,530	5	1	2	2	L
Public Works	GAZABO	SIDEWALK TO BLDING	ALVINSTON	2011	50	47	50	47	3	902	54	848	938	5	1	2	2	L
Public Works	INW RD		INWOOD	2011	50	47	50	47	3	12,320	739	11,581	12,806	5	1	2	2	L
Public Works	INW RD	MCNALLY TO SOUTH END	INWOOD	2012	50	48	50	48	2	15,203	608	14,595	15,464	5	1	2	2	L
Public Works	2014		ALVINSTON	2012	50	48	50	48	2	5,597	224	5,373	5,693	5	1	2	2	L
Public Works	2016	HOUSE 3245 NORTH TO WALLACE		2012	50	48	50	48	2	13,933	557	13,376	14,173	5	1	2	2	L
Public Works			ALVINSTON	2013	50	49	50	49	1	7,988	160	7,828	8,093	5	1	2	2	L
Public Works			ALVINSTON	2013	50	49	50	49	1	18,274	365	17,909	18,514	5	1	2	2	L
Public Works		JAMES ST	INWOOD	2013	50	49	50	49	1	3,249	65	3,184	3,292	5	1	2	2	L
																		

		Asset Desc	cription					Asset Age and Useful Life						Financial Information					Probability of Failure						
Department	Road Reference ID	Street	From	То	Diameter (mm)	Length (m)	Pipe Material	In Service Date	Useful Life	Remaining Useful Life	AM Useful Life	AM Remaining Useful Life	Age	Historical Cost Dec. 31, 2013	Accumulated Amortization Dec. 31, 2013	Net Book Value Dec. 31, 2013	Replacement Cost (2014\$) Inflated	Condition Rating (Based on Age)	Condition (0 to 5)	Material Rating	Total Probability of Failure	Consequence of Failure (Based on Pipe Size)	Numerical Risk of Failure	Risk of Failure	Inflated Contributions Based on Useful Life
																			5	5	10	10	100		
ST Inwood	3010	Atkinson Street	Inwood Rd	Park St	150	128.00	PE	1995	75	56	75	56	19	\$ 1,637,942 41,720	\$ 535,612 10,013	\$ 1,102,330 31,707	\$ 6,986,192 79,844	4	1	1	2	4	8	L	\$ 131,991 1,509
ST Alvinston	2057	Broadway Street	Dead End	Lisgar St	200	190.00	PE	1978	75	39	75	39	36	27,405	12,789	14,616	126,137	3	2	1	3	6	18	L	2,383
ST Alvinston	2058	Broadway Street	Lisgar	Francis	200	111.99	PE	1978	75	39	75	39	36	16,153	7,538	8,615	74,347	3	2	1	3	6	18	L	1,405
ST Alvinston ST Alvinston	2059 3013	Broadway Street Broadway Street	Francis Broadway Street	Mill Pond Hwy 79	200 200	111.00 579.10	PE PE	1978 1978	75 75	39 39	75	39 39	36 36	16,010 83,526	7,471 38,979	8,539 44,547	73,689 384,445	3	2	1	3	6	18 18	L	1,392 7,263
ST Alvinston	2040	Centre Street	Henry	Lovell St	150	103.01	Clay	1976	75	0	75	0	98	2,569	2,569	-	107,911	0	5	5	10	4	40	M	2,039
ST Alvinston	2041	Centre Street	Lovell St	Hwy 79	150	159.99	Clay	1916	75	0	75	0	98	3,990	3,990	-	167,601	0	5	5	10	4	40	М	3,166
ST Alvinston ST Alvinston	2042	Centre Street	Hwy 79	Elm St	150	117.00	Clay	1916	75	0	75	0	98 98	2,918	2,918	-	122,571	0	5	5	10	4	40	M	2,316
ST Alvinston	2043 2039	Centre Street Centre Street	Elm St Walnut	Dead End Henry St	150 150	264.50 71.60	Clay Clay	1916 1916	75 75	0	75	0	98	6,597 1.786	6,597 1.786	-	277,108 75,021	0	5	5	10 10	4	40 40	M	5,235 1,417
ST Alvinston	2039	Centre Street	Walnut	Henry St	250	18.80	PVC	1988	75	49	75	49	26	5,452	1,817	3,635	11,552	3	2	1	3	6	18	L	218
ST Alvinston	2039	Centre Street	Walnut	Henry St	330	42.20	PVC	1988	75	49	75	49	26	13,539	4,513	9,026	28,687	3	2	1	3	8	24	L	542
ST Alvinston ST Alvinston	2040 2041	Centre Street Centre Street	Henry Lovell St	Lovell St Hwy 79	330 330	103.01 159.99	PVC PVC	1988 1988	75 75	49 49	75	49 49	26	33,050 51,332	11,017	22,033 34,221	70,028 108,766	3	2	1	3	8	24 24	L	1,323 2,055
ST Alvinston	2041	Church Street	Railroad Line	Centre St	150	139.99	Clay	1988	75	49	75	49	85	4,792	4,792		137.135	0	5	5	10	4	40	M	2,055
ST Alvinston	3015	Church Street	Water Treatment Plan		300	48.80	PE	1988	75	49	75	49	26	15,205	5,068	10,137	32,217	3	2	1	3	8	24	L	609
ST Alvinston	3029	Elgin Street	Open Ditch	Railroad Line	250	97.50	Clay	1926	75	0	75	0	88	3,620	3,620	-	110,208	0	5	5	10	6	60	Н	2,082
ST Alvinston ST Alvinston	2014 2015	Elgin Street	Railroad Line Centre St	Centre St Lorne St	250 200	137.00 164.30	Clay	1926 1926	75 75	0	75	0	88 88	5,087 5,906	5,087	-	154,869 179,803	0	5	5 5	10 10	6	60 60	H H	2,926 3,397
ST Alvinston	2015	Elgin Street Elgin Street	Centre St	Lorne St	250	2.70	Clay Clay	1920	75	0	75	0	88	100	100	-	3.044	0	5	5	10	6	60	н	58
ST Alvinston	2016	Elgin Street	Lorne	Wallace St	200	153.03	Clay	1926	75	0	75	0	88	5,501	5,501	-	167,473	0	5	5	10	6	60	н	3,164
ST Alvinston	2016	Elgin Street	Lorne	Wallace St	200	100.60	PE	1966	75	27	75	27	48	6,912	4,332	2,580	69,259	2	3	1	4	6	24	L	1,309
ST Alvinston ST Alvinston	2014 2015	Elgin Street	Railroad Line Centre St	Centre St Lorne St	450 450	141.00 165.00	PE PE	1995 1995	75 75	56 56	75	56 56	19 19	63,058 73,791	15,134 17,710	47,924 56,081	120,681 141,222	4	1	1	2	10 10	20 20	L	2,280 2,668
ST Alvinston	2015	Elgin Street Elgin Street	Wallace St	Dead End	450 150	195.00	PE	2001	75	62	75	62	19	73,791	11,363	59,658	141,222	4	1	1	2	4	20	L	2,000
ST Alvinston	2024	Elm Street	Centre St	Railroad Line	200	129.50	PE	1975	75	36	75	36	39	14,790	7,494		70,625	2	3	1	4	6	24	L	1,334
ST Alvinston	2054	Francis Street	River St	Broadway St	250	91.44	AC	1974	75	35	75	35	40	9,713	5,051	4,662	49,266	2	3	3	6	6	36	М	931
ST Alvinston ST Alvinston	2019 2020	Henry Street Henry Street	Lorne Centre St	Centre St Railroad Line	250 250	161.99 150.00	PVC PVC	1989 1989	75 75	50 50	75	50 50	25 25	49,260 45,613	15,763 14,596	33,497 31,017	97,970 90,717	3	2	1	3	6	18 18	L	1,851 1,714
ST Inwood	3000	Holmes Street	Inwood Rd	Weidman	150	107.08	Clay	1969	75	22	75	22	53	6,262	4,342	1,920	75,933	1	4	5	9	4	36	M	1,714
ST Inwood		Inwood Road (Covered Portion) Pt Of 3-4 Municipal Drain	PARK	JAMES	200		PVC	2010	75	71	75	71	4	238,229	12,706	225,524	257,760	5	0	1	1	6	6	L	4,870
ST Inwood	3007	James Street	Park St	Dead End	200	209.00	Conc	1961	75	22	75	22	53	12,933	8,967	3,966	156,826	1	4	1	5	6	30	М	2,963
ST Inwood ST Alvinston	3007 2044	James Street Lorne Street	Park St Hwy 79	Dead End Lovell St	250 150	206.00	Conc Clay	1961 1922	75 75	22 0	75	22	53 92	13,168 5,693	9,130 5,693		159,676 173,318	1	4	1 5	5 10	6 4	30 40	M	3,017 3,275
ST Alvinston	2044	Lorne Street	Lovell St	Henry	150	107.00	Clay	1922	75	0	75	0	92	3,499	3,499		106,524	0	5	5	10	4	40	M	2,013
ST Alvinston	2046	Lorne Street	Henry	Walnut	150	137.20	Clay	1922	75	0	75	0	92	4,661	4,661	-	141,900	0	5	5	10	4	40	М	2,681
ST Alvinston	3012	Lorne Street	West Town Limits	Hwy 79	200	260.00	Clay	1994	75	55	75	55	20	87,779	22,237	65,542	173,220	4	1	5	6	6	36	M	3,273
ST Alvinston ST Alvinston	2021 2022	Lovell Street	Railroad Line Centre St	Centre St Lorne St	375 375	148.03 162.99	PVC PVC	1989 1989	75 75	50 50	75	50 50	25 25	50,760 55,891	16,243 17,885	34,517 38,006	100,953 111,158	3	2	1	3	10 10	30 30	M	1,907 2,100
ST Alvinston	2050	Mill Street	Hwy 79	Patterson	250	189.00	Clay	1929	75	0	75	0	85	7,106	7,106	-	203,356	0	5	5	10	6	60	н	3,842
ST Alvinston	3014	Mill Street	West Town Limits	Hwy 79	250	177.00	Clay	1929	75	0	75	0	85	6,655	6,655	-	190,449	0	5	5	10	6	60	Н	3,598
ST Alvinston	2018	Morrell Street	Hwy 79	Lorne St	250	40.20	Clay	1916	75	0	75	0	98	1,096	1,096	-	46,038	0	5	5	10	6	60	Н	870
ST Alvinston ST Alvinston	2018 2018	Morrell Street Morrell Street	Hwy 79 Hwy 79	Lorne St Lorne St	200 150	181.00 56.00	Clay PE	1916 1916	75 75	0	75	0	98 98	4,777	4,777	-	200,659 58,681	0	5	5	10 6	6 4	60 24	H L	3,791 1,109
ST Alvinston	2018	Morrell Street	Hwy 79	Lorne St	150	181.00	Clay	1916	75	0	75	0	98	4,514	4,514		189,611	0	5	5	10	4	40	M	3,582
ST Alvinston	3030	Open Ditch	Elgin St	River St	250	65.50	Clay	1926	75	0	75	0	88	2,432	2,432		74,040	0	5	5	10	6	60	Н	1,399
ST Inwood ST Alvinston	3009 2049	Park Street Patterson Street	Atkinson Reitrood Line	Inwood Rd Mill Pond	150 375	300.00	PE	2003 1989	75	64 50	75 75	64 50	11	114,810 42,178	15,308 13,497	99,502	170,527 83,885	4	1	1	2	4	8	L	3,222 1,585
ST Inwood	3003	Queen Street	Railroad Line Moore St	McNally St	200	123.00 150.00	PVC Clay	1989	75 75	30	75	37	25 38	18,428	9,091	28,681 9,337	90,541	2	3	5	8	6	30 48	M	1,585
ST Inwood	3004	Queen Street	McNally St	Dead End	200	177.00	Clay	1976	75	37	75	37	38	21,744	10,727		106,834	2	3	5	8	6	48	M	2,018
ST Alvinston	2025	Railroad Line	West Town Limits	Elm St	250	170.70	PE	1987	75	48	75	48	27	47,576	16,493		108,696	3	2	1	3	6	18	L	2,054
ST Alvinston ST Alvinston	2026	Railroad Line	Elm St	Hwy 79	250	175.60	PE	1987	75	48	75	48	27	48,941 17,644	16,966 5,646	31,975	111,815	3	2	1	3	6	18	L	2,113
ST Alvinston	2028 2028	Railroad Line Railroad Line	Lovell St Lovell St	Henry Henry	300 375	54.00 53.00	PVC PVC	1989 1989	75 75	50 50	75 75	50 50	25 25	17,644			35,091 36,145	3	2	1	3	8 10	24 30	L	663 683
ST Alvinston	2002	River Street	Francis	Mill Pond	300	134.00	AC	1974	75	35	75	35	40	15,293	7,952		77,568	2	3	3	6	8	48	M	1,465
ST Alvinston	3026	Underground	Walnut	Elgin St	150	114.00	Unknown	1975	75	36	75	36	39	12,304			58,754	2	3	5	8	4	32	М	1,110
ST Alvinston	3027	Underground	Elgin St Park St.	River St	150	111.00	Unknown	1975	75	36	75	36	39	11,980	6,070		57,206	2	3	5	8	4	32	M	1,081
ST Inwood ST Inwood	3028 3028	Underground (Tait Drain) Underground (Tait Drain)	Park St. Park St.	Dead End Dead End	200 450	275.00 180.00	AC Conc	1979 1979	75 75	40 40	75	40 40	35 35	43,293 36,745	19,626 16,658		182,762 155,120	3	2	3	5	6 10	30 30	M	3,453 2,931
ST Alvinston	2009	Wallace Street	Elgin St	Walnut	200	5.70	Clay	1926	75	0	75	0	88	205			6,241	0	5	5	10	6	60	н	118
ST Alvinston	2009	Wallace Street	Elgin St	Walnut	150	40.00	Clay	1926	75	0	75	0	88	1,359	1,359	-	41,374	0	5	5	10	4	40	М	782
									1																L

				Asset Desc	ription							А	sset Age and	Useful Life				Financial I	Information			Condition Rating			Cor	sequence of Fa	ilure		
Department	Asset ID	Road Name	From	То	Component	Section Length (km)	Roadside Enviroment	Surface Type	Traffic Range	Paved / Unpaved	In Service Date	Useful Life	Remaining Useful Life	AM Useful Life	AM Remaining Useful Life	Age	Historical Cost Dec. 31, 2013	Accumulated Amortization Dec. 31, 2013	Net Book Value Dec. 31, 2013	Replacement Cost (2014\$) Inflated	Road Surface Asset Condition (from 2009	Road Surface Estimated Condition 2014	Road Base and Earthwork Condition	Probability of Failure	Roadside Environment	Traffic Rating	Total Consequence of Failure	Numerical Risk of Failure	Risk of Failure
						()															Study)		(Age Based)	10	5	5	10	100	
																	\$ 3,699,654 \$ 5,254,385	\$ 2,858,297 \$ 2,619,893	\$ 841,357 \$ 2,634,492	\$ 7,075,263 \$ 76,445,539	Surface Base								
Public Works Public Works	1001	Aberfeldy Line Aberfeldy Line	Hwy 79 Ebenezer	Ebenezer Rd Little Ireland	Road Base and Earthwork Road Base and Earthwork	0.92		Gravel Gravel	50-199 50-199	Unpaved	1900 1900	100 100	0	100 100	0	114 114	19,350 6,900	19,350 6,900	-	732,378 261,158			0	10 10	1 1	2 2	3	30 30	M M
Public Works Public Works	1002.1	Aberfeldy Line Aberfeldy Line	Little Ireland	Dobryn Rd	Road Base and Earthwork Road Base and Earthwork	1.02	Rural Rural	Gravel Gravel	50-199 50-199	Unpaved Unpaved	1900 1900	100 100	0	100 100	0	114 114	6,130 7,660	6,130 7,660	-	232,771 289,545			0	10 10	1	2	3	30 30	M M
Public Works Public Works	1002.3				Road Base and Earthwork Road Base and Earthwork	1.88	Rural Rural	Gravel Gravel	50-199 50-199	Unpaved Unpaved	1900 1900	100 100	0	100 100	0	114 114	13,510 14,110	13,510 14,110	-	510,962 533,671			0	10 10	1	2 2	3	30 30	M M
Public Works Public Works		Forest Road Forest Road	Aberteldy Rd Oil Springs Line	Oil Springs Line Courtright Line	Road Base and Earthwork Road Base and Earthwork	2.69		Gravel	50-199 50-199	Unpaved	1900 1900	100 100	0	100 100	0	114 114	25,580 25,320	25,580 25,320	-	772,120 763,604			0	10 10	1	2	3	30 30	M M
Public Works Public Works	1005 1006	Forest Road Forest Road	Courtwright Line Weidman	Weidman Shiloh Line	Road Base and Earthwork Road Base and Earthwork	1.32	Rural Rural	Gravel Gravel	50-199 50-199	Unpaved Unpaved	1900 1900	100 100	0	100 100	0	114 114	10,450 9,900	10,450 9,900	-	394,576 374,705			0	10 10	1	2 2	3	30 30	M M
Public Works Public Works	1006.1 1006.2	Forest Road Forest Road			Road Base and Earthwork Road Base and Earthwork	2.73	Rural Rural	Gravel Gravel	50-199 50-199	Unpaved Unpaved	1900 1900	100 100	0	100 100	0	114 114	20,500 20,500	20,500 20,500	-	774,958 774,958			0	10 10	1	2	3	30 30	M M
Public Works Public Works	1007 1008	Weidman Line Weidman Line	Forest Rd 0.1 km west of Inwood Rd	0.1 km west of Inwood Rd. Inwood Rd	Road Base and Earthwork Road Base and Earthwork	0.20		Gravel LCB	50-199 50-199	Unpaved Paved	1900 1900	100 100	0	100 100	0	114 114	11,250 3,630	11,250 3,630	-	465,543 56,774			0	10 10	1 5	2	3 7	30 70	M H
Public Works Public Works		Weidman Line Oil Springs Line	0.1 km west of Inwood Rd Forest Rd	Inwood Rd Inwood Rd	Road Surface Road Base and Earthwork		Urban Rural	LCB LCB	50-199 50-199	Paved Paved	2009 1900	8 100	3	<u>8</u> 100	3 0	5 114	4,355 15,460	2,722 15,460	1,633	4,709 522,316	7	1	0	9 10	5	2 2	7 3	63 30	H M
Public Works Public Works		Oil Springs Line Oil Springs Line	Forest Rd Inwood Rd	Inwood Rd Sutorville	Road Surface Road Base and Earthwork	1.84	Rural Rural	LCB Gravel	50-199 50-199	Paved Unpaved	2005 1900	8 100	0	8 100	0	9 114	88,460 15,650	88,460 15,650	-	117,088 522,316	8	7	0	3 10	1	2	3	9 30	L M
Public Works Public Works	1012	Oil Springs Line Oil Springs Line	Sutorville Little Ireland	Little Ireland Ebenezer Rd	Road Base and Earthwork Road Base and Earthwork	0.16	Rural Rural	Gravel Gravel	50-199 50-199	Unpaved Unpaved	1900 1900	100 100	0	100 100	0	114 114	14,370 1,260	14,370 1,260	-	479,736 45,419			0	10 10	1	2	3	30 30	M M
Public Works Public Works		Oil Springs Line Oil Springs Line	Ebenezer Rd Old Walnut	Old Walnut Hwy 79	Road Base and Earthwork Road Base and Earthwork	1.85	Rural Rural	Gravel Gravel	50-199 50-199	Unpaved Unpaved	1900 1900	100 100	0	100 100	0	114 114	14,860 15,990	14,860 15,990	-	522,316 525,155			0	10 10	1	2	3 3	30 30	M M
Public Works Public Works		Oil Springs Line Oil Springs Line	Hwy 79 Cameron	Comeron Rd East of Cameron	Road Base and Earthwork Road Base and Earthwork		Rural Rural	Gravel Gravel	50-199 50-199	Unpaved Unpaved	1900 1900	100 100	0	100 100	0	114 114	14,780 3,660	14,780 3,660	-	525,155 127,740			0	10 10	1	2 2	3	30 30	M M
Public Works Public Works	1017 1018	Walker Line Cameron Road	Watterworth Rd Walker Line	Cameron Sydenham	Road Base and Earthwork Road Base and Earthwork		Rural Rural	Gravel Gravel	50-199 50-199	Unpaved Unpaved	1900 1900	100 100	0	100 100	0	114 114	5,820 9,940	5,820 9,940	-	261,158 388,899			0	10 10	1	2 2	3	30 30	M M
Public Works Public Works	1019 1020	Sydenham Line Cameron Road	Cameron Sydenham Rd	Hwy 79 Oil Springs Line	Road Base and Earthwork Road Base and Earthwork		Rural Rural	Gravel Gravel	0-49 50-199	Unpaved Unpaved	1900 1900	100 100	0	100 100	0	114 114	12,940 10,550	12,940 10,550	-	635,863 386,060			0	10 10	1	1 2	2 3	20 30	L M
Public Works Public Works	1021 1022	Cameron Road Old Walnut Road	Oil Springs Line Hwy 79	Courtright Line Fields Line	Road Base and Earthwork Road Base and Earthwork		Rural Rural	LCB Gravel	50-199 50-199	Unpaved Unpaved	1900 1900	100 100	0	100 100	0	114 114	23,360 10,340	23,360 10,340	-	803,345 414,447			0	10 10	1	2	3	30 30	M M
Public Works Public Works	1023 1024	Old Walnut Road Old Walnut Road	Fields Rd Oil Springs Line	Oil Springs Line Courtright Line	Road Base and Earthwork Road Base and Earthwork		Rural Rural	Gravel Gravel	50-199 50-199	Unpaved Unpaved	1900 1900	100 100	0	100 100	0	114 114	9,650 26,950	9,650 26,950	-	386,060 772,120			0	10 10	1	2	3	30 30	M
Public Works Public Works	1025	Old Walnut Road Railroad Line	Courtright Line Old Walnut	Railroad Line Alvinston South Limits	Road Base and Earthwork Road Base and Earthwork	1.36	Rural Rural	Gravel Gravel	50-199 50-199	Unpaved Unpaved	1900 1900	100 100	0	100 100	0	114 114	13,470 8,200	13,470 8,200	-	386,060 320,770			0	10 10	1	2	3	30 30	M
Public Works Public Works	1027 1028	Old Walnut Road Old Walnut Road	Railroad Line Shiloh Line	Shiloh Line Brooke Line	Road Base and Earthwork Road Base and Earthwork	1.37	Rural Rural	Gravel Gravel	50-199 50-199	Unpaved Unpaved	1900 1900	100 100	0	100 100	0	114 114	13,510 10,880	13,510 10,880	-	388,899 386,060			0	10 10	1	2	3	30 30	M
Public Works Public Works		Old Walnut Road Brooke Line	Brooke Line Old Walnut	Rokeby Line Hwy 79	Road Base and Earthwork Road Base and Earthwork	1.37	Rural	Gravel	50-199 50-199	Unpaved	1900 1900	100	0	100	0	114 114	111,250 13,520	111,250 13,520	-	388,899 522,316			0	10	1	2	3	30 30	M
Public Works Public Works	1030 1031	Brooke Line Old Walnut Road	Old Walnut Rokeby Line	Hwy 79 Petrolia Line	Road Surface Road Base and Earthwork	1.84	Rural Rural	Gravel	50-199 50-199	Paved Unpaved	1999 1900	20 100	5	20	5	15 114	93,050 21,900	65,135 21,900	27,915	164,080 769,281	10	9	0	1 10	1	2	3	3	L
Public Works Public Works	1032	Old Walnut Road Old Walnut Road	Petrolia Line Lasalle	Lasalle Line Churchill Line	Road Base and Earthwork Road Base and Earthwork	1.48	Rural	Gravel	50-199 50-199	Unpaved	1900 1900	100	0	100	0	114 114	10,150	10,150		420,124 860,119			0	10 10 10	1	2	3	30 30	M
Public Works Public Works	1034 1035	Ebenezer Road Ebenezer Road	Churchill Line Lasalle	Lasalle Line Petrolia Line	Road Base and Earthwork Road Base and Earthwork		Rural	Gravel	50-199 50-199	Unpaved	1900 1900	100	0	100 100 100	0	114 114	21,720	21,720	-	848,764 769,281			0	10 10 10	1	2	3	30 30	M
Public Works Public Works	1036	Ebenezer Road Ebenezer Road	Petrolia Line Rokeby Line	Rokeby Line Shiloh	Road Base and Earthwork Road Base and Earthwork	2.71	Rural Rural	Gravel	50-199 50-199	Unpaved	1900 1900	100	0	100 100 100	0	114	20,360	20,360		769,281			0	10 10 10	1	2	3	30 30	M
Public Works Public Works	1037 1039 1040	Ebenezer Road Ebenezer Road	Courtright Line Bush Line	Bush Line Oil Springs Line	Road Base and Earthwork Road Base and Earthwork	1.36	Rural	Gravel Gravel	50-199 50-199 50-199	Unpaved	1900 1900	100	0	100 100 100	0	114 114 114	7,960	7,960	-	386,060			0	10 10 10	1	2	3	30	M
Public Works	1041	Ebenezer Road	Oil Springs Line	Fields Line	Road Base and Earthwork	1.36	Rural	Gravel	50-199	Unpaved	1900	100	0	100	0	114	9,000	9,000	-	386,060			0	10 10 10	1	2	3	30	M
Public Works Public Works	1042 1043 1044	Fields Line Ebenezer Road	Ebenezer Fields Rd	Old Walnut Aberleldy	Road Base and Earthwork Road Base and Earthwork Road Base and Earthwork	1.94	Rural Rural Rural	Gravel Gravel	50-199 50-199	Unpaved	1900 1900 1900	100 100 100	0	100 100 100	0	114 114 114	10,320 12,180	10,320 12,180 9,970		522,316 550,703 386,060			0	10	1	2	3	30 30 30	M
Public Works Public Works	1045	Little Ireland Road Little Ireland Road	Aberteldy Rd Campbell Line	Campbell Line Oil Springs Line	Road Base and Earthwork	1.36	Rural Rural	Gravel Gravel	50-199 50-199	Unpaved	1900 1900 1900	100	0	100 100 100	0	114 114 114	9,970 7,970	9,970 7,970 8,880	-	386,060 386,060 386,060			0	10 10 10	1	2	3	30 30 30	M
Public Works Public Works Public Works	1047	Little Ireland Road Bush Line Little Ireland Road	Oil Springs Line Little Ireland Bush Line	Bush Line Ebenezer Rd	Road Base and Earthwork Road Base and Earthwork Road Base and Earthwork	1.83	Rural Rural	Gravel Gravel Gravel	50-199 50-199 50-199	Unpaved	1900 1900 1900	100	0	100 100 100	0	114 114 114	8,880 9,210 8,870	9,210 8,870	-	519,478 386,060			0	10 10 10	1	2	3	30 30 30	M
Public Works	1049	Little Ireland Road	Courtright Line	Courtright Line Shiloh Line	Road Base and Earthwork	2.72	Rural	Gravel	50-199	Unpaved	1900	100	0	100	0	114	19,080	19,080	-	772,120			0	10	1	2	3	30	M
Public Works Public Works	1051	Little Ireland Road	Shiloh Line Rokeby Line	Rokeby Line Petrolia Line	Road Base and Earthwork Road Base and Earthwork	2.72		Gravel Gravel	50-199 50-199	Unpaved	1900 1900	100	0	100 100	0	114 114	16,380 21,300	16,380 21,300	-	772,120 772,120			0	10	1	2	3	30 30	M
Public Works Public Works	1053	Little Ireland Road Little Ireland Road	Petrolia Line Lasalle Line	Lasalle Line Churchill Line	Road Base and Earthwork Road Base and Earthwork	2.99	Rural	Gravel Gravel	50-199 50-199	Unpaved	1900 1900	100 100	0	100 100	0	114 114	17,030 18,760	17,030 18,760	-	772,120 848,764			0	10 10	1	2	3	30 30	M
Public Works Public Works	1055	Inwood Road Inwood Road	Churchill Line Lasalle Line	Lasalle Line Petrolia Line	Road Base and Earthwork Road Base and Earthwork	2.72	Rural	Gravel Gravel	50-199 50-199	Unpaved	1900 1900	100 100	0	100 100	0	114 114	18,920 23,570	18,920 23,570	-	845,925 772,120			0	10 10	1	2	3	30 30	M M
Public Works Public Works Public Works	1057	Campbell Line Campbell Line	Inwood Rd Sutorville	Sutorville Little Ireland	Road Base and Earthwork Road Base and Earthwork	1.68	Rural Rural	Gravel Gravel	50-199 50-199	Unpaved	1900 1900	100	0	100 100	0	114 114	11,560 10,530	11,560 10,530	-	522,316 476,898			0	10 10	1	2	3	30 30	M M
Public Works Public Works	1059	Sutorville Road Sutorville Road	Aberteldy Rd Campbell Line	Campbell Line Oil Springs Line	Road Base and Earthwork Road Base and Earthwork	1.36	Rural Rural	Gravel Gravel	50-199 50-199	Unpaved Unpaved	1900 1900	100 100	0	100 100	0	114 114	8,840 10,580	8,840 10,580	-	386,060 386,060			0	10 10	1	2	3	30 30	M
Public Works Public Works	1061	Sutorville Road Sutorville Road	Oil Springs Line Courtright Line	Courtright Line Shiloh Line	Road Base and Earthwork Road Base and Earthwork	2.72	Rural	Gravel	50-199 50-199	Unpaved	1900 1900	100 100	0	100 100	0	114 114	13,700 16,620	13,700 16,620	-	772,120 772,120			0	10 10	1	2	3	30 30	M
Public Works Public Works	1063		Shiloh Line Rokeby Line	Rokeby Line Petrolia Line	Road Base and Earthwork Road Base and Earthwork	2.72		Gravel Gravel	50-199 50-199	Unpaved	1900 1900	100	0	100 100	0	114 114	17,000 17,060	17,000 17,060	-	769,281 772,120			0	10 10	1	2	3	30 30	M M
Public Works Public Works	1065	Sutorville Road Sutorville Road	Petrolia Line Lasalle Line	Lasalle Line Churchill Line	Road Base and Earthwork Road Base and Earthwork	2.98	Rural	Gravel Gravel	50-199 50-199	Unpaved Unpaved	1900 1900	100	0	100 100	0	114 114	17,060 20,930	17,060 20,930	-	772,120 845,925			0	10 10	1	2	3	30 30	M
Public Works Public Works	1067	White Pine Road White Pine Road	Churchill Line Lasalle Line	Lasalle Line Petrolia Line	Road Base and Earthwork Road Base and Earthwork	2.72	Rural	Gravel Gravel	50-199 50-199	Unpaved Unpaved	1900 1900	100 100	0	100 100	0	114 114	21,160 17,260	21,160 17,260	-	845,925 772,120			0	10 10	1	2	3 3	30 30	M M
Public Works Public Works	1069	White Pine Road White Pine Road	Petrolia Line Rokeby Line	Rokeby Line South of Rokeby Dead End		0.52	Rural	Gravel Gravel	50-199 0-49	Unpaved Unpaved	1900 1900	100 100	0	100 100	0	114 114	18,580 1,930	18,580 1,930	-	769,281 147,611			0	10 10	1	2	3 2	30 20	M L
Public Works Public Works		Conservation Road Conservation Road			Road Base and Earthwork Road Base and Earthwork	1.23	Rural Rural	Gravel Gravel	50-199 50-199	Unpaved Unpaved	1900 1900	100 100	0	100 100	0	114 114	6,350 10,150	6,350 10,150	-	218,578 349,157			0	10 10	1	2 2	3	30 30	M M
Public Works Public Works	1070.2 1071	Conservation Road Conservation Road		Maple Ridge Shiloh Line	Road Base and Earthwork Road Base and Earthwork	0.78 0.55	Rural Rural	Gravel Gravel	50-199 50-199	Unpaved Unpaved	1900 1900	100 100	0	100 100	0	114 114	6,440 4,540	6,440 4,540	-	221,417 156,127			0	10 10	1	2 2	3 3	30 30	M M
Public Works Public Works		Hardy Creek Road Hardy Creek Road	Shiloh Line Rokeby Line	Rokeby Line Petrolia Line	Road Base and Earthwork Road Base and Earthwork	2.27		Gravel Gravel	50-199 50-199	Unpaved Unpaved	1900 1900	100 100	0	100 100	0	114 114	17,080 21,270	17,080 21,270		644,379 769,281			0	10 10	1	2 2	3 3	30 30	M M
Public Works Public Works	1074	Hardy Creek Road Hardy Creek Road	Petrolia Line Lasalle Line	Lasalle Line Churchill Line	Road Base and Earthwork Road Base and Earthwork	2.72	Rural	Gravel Gravel	50-199 50-199	Unpaved Unpaved	1900 1900	100 100	0	100	0	114 114	20,390 20,420	20,390 20,420	-	772,120 845,925			0	10 10	1	2	3	30 30	M M
Public Works Public Works	1076	Salem Road Sexton Road	Churchill Line	Lasalle Line	Road Base and Earthwork Road Base and Earthwork	2.96	Rural	Gravel	50-199 50-199	Unpaved	1900 1900	100	0	100 100 100	0	114 114	20,790	20,790	-	840,248 840,248			0	10 10 10	1	2 2	3	30 30	M
Public Works Public Works	1077.1	Sexton Road Sexton Road	Petrolia Line	Rokeby Line	Road Base and Earthwork Road Base and Earthwork	2.75		Gravel	50-199 50-199	Unpaved	1900 1900	100	0	100 100 100	0	114 114	22,230 21,980	22,230 21,980	-	780,636			0	10 10 10	1	2	3	30 30	M
Public Works Public Works	1078	Sexton Road Sexton Road	Rokeby Line Maple Ridge	Maple Ridge Calvert Dr	Road Base and Earthwork Road Base and Earthwork	2.72	Rural	Gravel Gravel	50-199 50-199	Unpaved	1900 1900	100	0	100 100 100	0	114 114 114	15,930 10,900	15,930 10,900	-	772,120			0	10 10 10	1	2	3	30 30 30	M M M
Public Works		Gully Mor Road	Conservation Rd	Maple Ridge	Road Base and Earthwork			Gravel	50-199	Unpaved		100	0	100	0	114	9,430	9,430	-	425,801			0	10	1	2	3	30	M

				Asset Desc	ription							As	set Age and	Useful Life				Financial Info	rmation			Condition Rating			Cor	sequence of Fa	ilure		
Department	Asset ID	Road Name	From	То	Component	Section Length (km)	Roadside Enviroment	Surface Type	Traffic Range	Paved / Unpaved	In Service Date		Remaining Useful Life	AM Useful Life	AM Remaining Useful Life	Age	Historical Cost Dec. 31, 2013		et Book Value Jec. 31, 2013	Replacement Cost (2014\$) Inflated	Road Surface Asset Condition (from 2009 Study)	Road Surface Estimated Condition 2014	Road Base and Earthwork Condition (Age Based)	Probability of Failure	Roadside Environment	Traffic Rating	Total Consequence of Failure	lumerical Risk of Failure	Risk of Failure
Public Works Public Works	1081 1082	Gully Mor Road Gully Mor Road	Maple Ridge	Rokeby Line Dead End	Road Base and Earthwork Road Base and Earthwork	2.71	Rural	Gravel Gravel	50-199 0-49	Unpaved	1900 1900	100 100	0	100 100	0	114 114	15,890 2,550	15,890 2,550	-	769,281 124,902			0	10 10	1	2	3	30 20	M
Public Works	1082	Maple Ridge Line	Rokeby Line Sexton Rd	Gully Mor Rd	Road Base and Earthwork		Rural Rural	Gravel	0-49	Unpaved Unpaved	1900	100	0	100	0	114	6,100	6,100		295,222			0	10	1	1	2	20	L
Public Works Public Works	1084 1085	Maple Ridge Line Peak Of Mosa Road	Gully Mor Rd Shiloh Line	Conservation Rd Dead End	Road Base and Earthwork Road Base and Earthwork	1.45		Gravel Gravel	50-199 0-49	Unpaved Unpaved	1900 1900	100 100	0	100 100	0	114 114	8,490 6,080	8,490 6,080	-	411,608 394,576			0	10 10	1	2	3	30 20	M L
Public Works Public Works	1086 1087	Argyll Road	Shiloh Line	Dead End Gardner Trail	Road Base and Earthwork Road Base and Earthwork		Rural	Gravel	0-49	Unpaved	1900 1900	100	0	100	0	114 114	3,950 10.680	3,950 10,680	-	201,546			0	10	1	1	2	20	L
Public Works Public Works	1087	Argyll Road Gardner Trail	Shiloh Line Dead End	Junction Rd	Road Base and Earthwork Road Base and Earthwork		Rural Rural	Gravel Gravel	0-49 0-49	Unpaved Unpaved	1900	100 100	0	100 100	0	114	10,680	10,680	-	496,768 630,186			0	10 10	1	1	2	20 20	L
Public Works Public Works	1088.1 1089	Junction Road River Street	Shiloh Line	Brooke Line	Road Base and Earthwork Road Base and Earthwork	0.48		Gravel Gravel	0-49 0-49	Unpaved Unpaved	1900 1900	100 100	0	100 100	0	114 114	- 8,910	- 8,910		136,256 388,899			0	10 10	1	1	2	20 20	L
Public Works	1090	Brooke Line	Dead End	River St	Road Base and Earthwork	0.60	Rural	Gravel	0-49	Unpaved	1900	100	0	100	0	114	3,620	3,620	-	170,321			0	10	1	1	2	20	L
Public Works Public Works	1091 1093	Brooke Line Shiloh Line	River St Peak of Mosa Rd	Hwy 79 Hwy 79	Road Base and Earthwork Road Base and Earthwork			Gravel HCB	50-199 50-199	Unpaved Paved	1900 1983	100 75	0 44	100 75	0 44	114 31	4,340 344,560	4,340 103,368	- 241,192	175,998 794,829			0	10 4	1	2	3	30 12	M
Public Works	1093	Shiloh Line	Peak of Mosa Rd	Hwy 79	Road Surface	2.80	Rural	HCB	50-199	Paved	1989	20	0	20	0	25	189,940	189,940	-	377,759	7	5	0	5	1	2	3	15	L
Public Works Public Works	1094 1094	Shiloh Line Shiloh Line	Hwy 79 Hwy 79	Old Walnut Old Walnut	Road Base and Earthwork Road Surface		Rural Rural	LCB LCB	50-199 50-199	Paved Paved	1900 1996	100 8	0	100 8	0	114 18	15,210 31,240	15,210 31,240	-	522,316 58,673	6	5	0	10 5	1	2	3	30 15	L
Public Works Public Works	1095 1095	Shiloh Line Shiloh Line	Old Walnut Old Walnut	Ebenezer Rd Ebenezer Rd	Road Base and Earthwork BETTERMENTS - Base	1.85 1.85	Rural	LCB LCB	50-199 50-199	Unpaved Unpaved	1900 2012	100 100	0 98	100 100	0 98	114 2	15,220 165,332	15,220 3,307	- 162,025	525,155 525,155			0	10	1	2	3	30	M
Public Works	1096	Shiloh Line	Ebenezer Rd	Little Ireland	Road Base and Earthwork	1.84	Rural	LCB	50-199	Unpaved	1900	100	0	100	0	114	15,200	15,200	-				9	1	-	2		3	
Public Works Public Works	1096 1097	Shiloh Line Shiloh Line	Ebenezer Rd Little Ireland	Little Ireland Sutorville	BETTERMENTS - Base Road Base and Earthwork		Rural Rural	LCB LCB	50-199 50-199	Unpaved Unpaved	2012 1900	100 100	98 0	100 100	98 0	2 114	164,494 14,160	3,290 14,160	161,204	522,316			9	1	1	2	3	3	L
Public Works	1097	Shiloh Line	Little Ireland	Sutorville	BETTERMENTS - Base	1.72	Rural	LCB	50-199	Unpaved	2011	100	97	100	97	3	143,513	4,305	139,208	488,252			8	2	1	2	3	6	L
Public Works Public Works	1098 1098	Shiloh Line Shiloh Line	Sutorville Sutorville	Inwood Rd Inwood Rd	Road Base and Earthwork BETTERMENTS - Base	1.84 1.84		LCB LCB	50-199 50-199	Unpaved Unpaved	1900 2010	100 100	0 96	100 100	96	114 4	15,200 121,018	15,200 4,841	- 116,177	522,316			7	3	1	2	3	9	L
Public Works Public Works	1099 1099	Shiloh Line Shiloh Line	Inwood Rd Inwood Rd	Forest Rd Forest Rd	Road Base and Earthwork BETTERMENTS - Base		Rural Rural	LCB LCB	50-199 50-199	Unpaved Unpaved	1900 2010	100 100	0 96	100 100	0 96	114 4	15,170 121.018	15,170 4.841	- 116,177	522.316			7	3	1	2	3	9	
Public Works	1100	Rokeby Line	Forest Rd	Inwood Rd	Road Base and Earthwork	1.84	Rural	LCB	50-199	Paved	1900	100	0	100	0	114	13,810	13,810	-	522,316			0	10	1	2	3	30	M
Public Works Public Works	1101 1102	Rokeby Line Rokeby Line	Inwood Rd Sutorville	Sutorville Little Ireland	Road Base and Earthwork Road Base and Earthwork	1.84 1.73	Rural Rural	LCB LCB	50-199 50-199	Paved Paved	1900 1900	100 100	0	100 100	0	114 114	13,810 13,540	13,810 13,540		522,316 491,091			0	10 10	1	2	3	30 30	M
Public Works Public Works	1103 1104	Rokeby Line Rokeby Line	Little Ireland Ebenezer Rd	Ebenezer Rd Old Walnut	Road Base and Earthwork Road Base and Earthwork		Rural Rural	LCB LCB	50-199 50-199	Paved Paved	1900 1900	100 100	0	100 100	0	114 114	14,420 16.010	14,420 16.010	-	522,316 525,155			0	10 10	1	2	3	30 30	M
Public Works	1104	Rokeby Line	Ebenezer Rd	Old Walnut	Road Surface	1.85	Rural	LCB	50-199	Paved	2008	7	1	7	1	6	27,596	23,654	3,942	29,268	8	6	0	4	1	2	3	12	L
Public Works Public Works	1105 1105	Rokeby Line Rokeby Line	Old Walnut Old Walnut	Hwy 79 Hwy 79	Road Base and Earthwork Road Surface	1.40		LCB LCB	50-199 50-199	Paved Paved	1900 2008	100 7	0	100	0	114 6	11,860 20,883	11,860 17,900	- 2,983	397,415 22,148	8	7	0	10	1	2	3	30 9	M L
Public Works	1106	Rokeby Line	Hwy 79	White Pine Rd	Road Base and Earthwork	2.29	Rural	LCB	50-199	Paved	1900	100	0	100	0	114	17,420	17,420	-	650,057	10		0	10	1	2	3	30	М
Public Works Public Works	1106 1106	Rokeby Line Rokeby Line	Hwy 79 Hwy 79	White Pine Rd White Pine Rd	Road Surface Road Surface	2.29 2.29	Rural Rural	LCB LCB	50-199 50-199	Paved Paved	2007 2008	8 7	1	8	1	6	69,072 34,159	60,438 29,279	8,634 4,880	80,266 36,228	10	9 9		1	1	2	3	3	L
Public Works Public Works	1107 1107	Rokeby Line Rokeby Line	White Pine Rd White Pine Rd	Hardy Creek Rd Hardy Creek Rd	Road Base and Earthwork Road Surface	1.83 1.83		LCB LCB	50-199 50-199	Paved Paved	2005 2007	100	91 1	100	91 1	9 7	390,610 51,803	31,249 45,328	359,361 6,475	519,478 60,199	8	7	9	1	1	2	3	3	L
Public Works	1107	Rokeby Line	White Pine Rd	Hardy Creek Rd	Road Surface	1.83	Rural	LCB	50-199	Paved	2008	7	1	7	1	6	27,298	23,398	3,900	28,951	8	7	-	3	1	2	3	9	L
Public Works Public Works	1108 1108	Rokeby Line Rokeby Line	Hardy Creek Rd Hardy Creek Rd	Gully Mar Rd Gully Mar Rd	Road Base and Earthwork Road Surface	1.83 1.83		LCB LCB	50-199 50-199	Paved Paved	2006 2007	100 8	92 1	100 8	92 1	8	419,840 51,803	29,389 45,328	390,451 6,475	519,478 60,199	10	9	9	1	1	2	3	3	L
Public Works Public Works	1108 1109	Rokeby Line Rokeby Line	Hardy Creek Rd Gully Mor Rd	Gully Mar Rd Sexton Rd	Road Surface Road Base and Earthwork	1.83 1.06		LCB LCB	50-199 50-199	Paved Paved	2008 2006	7 100	1 92	7 100	1 92	6 8	27,298 243,130	23,398 17,019	3,900 226,111	28,951 300,900	10	9	0	1	1	2	3	3	L
Public Works	1109	Rokeby Line	Gully Mor Rd	Sexton Rd	Road Surface	1.06	Rural	LCB	50-199	Paved	2007	8	92 1	8	<u>92</u> 1	7	28,780	25,183	3,598	33,444	10	9	9	1	1	2	3	3	L
Public Works Public Works	1109 1110	Rokeby Line Hilly Rd	Gully Mor Rd Rokeby Line	Sexton Rd Dead End	Road Surface Road Base and Earthwork	1.06	Rural Rural	LCB Gravel	50-199 0-49	Paved Unpaved	2008 1900	7 100	1	7 100	1	6 114	15,812 4,200	13,553 4,200	2,259	16,770 272,513	10	9	0	1 10	1	2	3	3 20	
Public Works	1111	Petrolia Line	Hwy 79	White Pine Rd White Pine Rd	Road Base and Earthwork	2.46		LCB	200-399	Paved	1985	100	71	100	71	29	342,230	95,824	246,406	698,314	0	7	7	3	1	3	4	12	L
Public Works Public Works	1112	Petrolia Line Petrolia Line	Hwy 79 White Pine Rd	Hardy Creek Rd	Road Surface Road Base and Earthwork	2.46 1.83	Rural	LCB LCB	200-399 200-399	Paved Paved	1985 1985	° 100	71	0 100	71	29 29	255,220	- 71,462	- 183,758	- 519,478	0	,	7	3	1	3	4 4	12 12	L
Public Works Public Works	1112 1113	Petrolia Line Petrolia Line	White Pine Rd Hardy Creek Rd	Hardy Creek Rd Sexton Rd	Road Surface Road Base and Earthwork	1.83 2.92	Rural Rural	LCB LCB	200-399 200-399	Paved Paved	1985 1985	8 100	0 71	8 100	0	29 29	- 406,140	- 113,719	- 292,421	- 828,893	8	7	7	3	1	3	4	12 12	L
Public Works	1113	Petrolia Line	Hardy Creek Rd	Sexton Rd	Road Surface	2.92	Rural	LCB	200-399	Paved	1985	8	0	8	0	29	-	-	-	-	8	7		3	1	3	4	12	L
Public Works Public Works	1114 1114	La Salle Line La Salle Line	Sexton Rd Sexton Rd	Hardy Line Hardy Line	Road Base and Earthwork BETTERMENTS - Base	2.95 2.95	Rural	Gravel Gravel	200-399 200-399	Unpaved Unpaved	1900 2005	100 100	0 91	100 100	0 91	114 9	22,840 141,810	22,840 141,810	-	837,409			6	10 4	1	3	4 4	40 16	L
Public Works Public Works		La Salle Line La Salle Line	Hardy Creek Rd Hardy Creek Rd	White Line White Line	Road Base and Earthwork BETTERMENTS - Base	1.84 1.84	Rural Rural	Gravel Gravel	200-399 200-399	Unpaved Unpaved	1900 2009	100 100	0 95	100 100	0	114 5	14,280 33,480	14,280 20,925	- 12,555	522,316	8	7	0	10	1	3	4	40	M
Public Works	1116	La Salle Line	White Pine Rd	Hwy 79	Road Base and Earthwork	2.46	Rural	Gravel	200-399	Unpaved	1900	100	0	100	0	114	19,040	19,040	-		0	,	0	10	1	3	4	40	M
Public Works Public Works	1116 1117	La Salle Line La Salle Line	White Pine Rd Hwy 79	Hwy 79 Old Walnut	BETTERMENTS - Base Road Base and Earthwork	2.46 0.92	Rural Rural	Gravel LCB	200-399 200-399	Unpaved Paved	2009 1900	100 100	95 0	100 100	95 0	5 114	44,761 7,590	27,976 7,590	16,785	698,314 261,158	7	6	0	4	1	3	4 4	16 40	M
Public Works Public Works		La Salle Line La Salle Line	Hwy 79 Old Walnut	Old Walnut Ebenezer Rd	Road Surface Road Base and Earthwork	0.92	Rural Rural	LCB LCB	200-399 200-399	Paved Paved	1999 1900	8 100	0	8 100	0	15 114	38,460 17,690	38,460 17,690	-	67,818 607,477	8	5	0	5 10	1	3	4	20 40	L
Public Works	1118	La Salle Line	Old Walnut	Ebenezer Rd	Road Surface	2.14	Rural	LCB	200-399	Paved	1999	8	0	8	0	15	89,640	89,640	-	158,067	8	7	0	3	1	3	4	12	L
Public Works Public Works		La Salle Line La Salle Line	Old Walnut Ebenezer	Ebenezer Rd Little Ireland	BETTERMENTS Road Base and Earthwork		Rural Rural	LCB LCB	200-399 200-399	Paved Paved	2009 1900	8 100	3	8 100	3	5 114	38,886 15,210	24,304 15,210	14,582	42,045 522,316	8	7		3	1	3	4	12	<u> </u>
Public Works Public Works	1119	La Salle Line	Ebenezer	Little Ireland	BETTERMENTS - Base	1.84	Rural	LCB LCB	200-399	Paved	2014	100	100	100	100 20	0		8,642	404.400	522,316	0	40	10	0	1	3	4	0	L
Public Works Public Works		La Salle Line La Salle Line	Ebenezer Little Ireland	Little Ireland Sutorville	Road Surface Road Base and Earthwork		Rural	LCB	200-399 200-399	Paved Paved	2014 1900	20 100	20 0	20 100	0	114	172,838 15,520	15,520	164,196 -	172,838 522,316	8	10	0	10	1	3	4 4	4	M
Public Works Public Works		La Salle Line La Salle Line	Little Ireland Sutorville	Sutorville Inwood Rd	Road Surface Road Base and Earthwork		Rural Rural	LCB LCB	200-399 200-399	Paved Paved	1999 1900	8 100	0	<u>8</u> 100	0	15 114	77,100 15,510	77,100 15,510		135,954 522,316	9	6	0	4 10	1	3	4 4	16 40	L
Public Works	1121	La Salle Line	Sutorville	Inwood Rd	Road Surface	1.84	Rural	LCB	200-399	Paved	1999	8	0	8	0	15	77,060	77,060	-	135,884	9	6	0	4	1	3	4	16	L
Public Works Public Works		La Salle Line La Salle Line	Inwood Rd Inwood Rd	Forest Rd Forest Rd	Road Base and Earthwork Road Surface		Rural Rural	LCB LCB	200-399 200-399	Paved Paved	1900 1999	100 8	0	100 8	0	114 15	14,890 77,020	14,890 77,020		522,316 135,813	9	7	0	10 3	1	3	4	40 12	
Public Works		Churchill Line	50 m west of Old Walnut 50 m west of Old Walnut	Hwy 79	Road Base and Earthwork			HCB	400-999	Paved	1900	100	0	100	0	114 15	9,240	9,240	-	357,673	0	0	0	10	1	4	5 5	50	M
Public Works Public Works	1124	Churchill Line Churchill Line	Hwy 79	Hwy 79 White Pine Rd	Road Surface Road Base and Earthwork	2.48	Rural Rural	HCB HCB	400-999 400-999	Paved Paved	1999 1900	8 100	0	8 100	0	114	3,960 20,440	3,960 20,440	-	6,983 703,992	9	8	0	2 10	1	4	5	10 50	M
Public Works Public Works		Churchill Line Churchill Line	Hwy 79 Hwy 79	White Pine Rd White Pine Rd	Road Surface BETTERMENTS	2.48 2.48	Rural Rural	HCB HCB	400-999 400-999	Paved Paved	1998 2009	20 8	4	20 8	4	16 5	176,190 77,212	132,143 48,258	44,048 28,955	318,236 83,484	7 7	4 4		6 6	1	4 4	5 5	30 30	M
Public Works	1125	Churchill Line	White Pine Rd	Hardy Creek Rd	Road Base and Earthwork	1.84	Rural	HCB	400-999	Paved	1900	100	0	100	0	114	15,480	15,480	-	522,316	7		0	10	1	4	5	50	М
Public Works Public Works	1125	Churchill Line Churchill Line	White Pine Rd White Pine Rd	Hardy Creek Rd Hardy Creek Rd	Road Surface BETTERMENTS	1.84	Rural Rural	HCB HCB	400-999 400-999	Paved Paved	1998 2009	20 8	4 3	20 8	4	16 5	130,820 57,287	98,115 35,804	32,705 21,483	236,288 61,940	7 7	4 4		6 6	1	4 4	5	30 30	M M
Public Works Public Works	1126	Churchill Line Churchill Line	Hardy Creek Rd Hardy Creek Rd	Salem Rd Salem Rd	Road Base and Earthwork Road Surface	1.84	Rural Rural	HCB HCB	400-999 400-999	Paved Paved	1900 1998	100 20	0 4	100 20	0	114 16	15,440 130,480	15,440 97.860	- 32,620	522,316 235,674	7	4	0	10 6	1	4	5	50 30	M
Public Works	1126	Churchill Line	Hardy Creek Rd	Salem Rd	BETTERMENTS	1.84	Rural	HCB	400-999	Paved	2009	8	3	8	4	5	57,287	35,804	21,483	61,940	7	4 4		6	1	4	5	30	M
Public Works Public Works		Churchill Line Churchill Line	Salem Rd Salem Rd	Sexton Rd Sexton Rd	Road Base and Earthwork Road Surface		Rural Rural	HCB HCB	400-999 400-999	Paved Paved	1900 1998	100 20	0 4	100 20	0 4	114 16	8,860 79,770	8,860 59,828	- 19,943	317,932 144,081	8	3	0	10 7	1	4	5 5	50 35	M
Public Works	1127	Churchill Line	Salem Rd	Sexton Rd	BETTERMENTS	1.12	Rural	HCB	400-999	Paved	2009	8	3	8	3	5	34,870	21,794	13,076	37,702	8	3		7	1	4	5	35	M
Public Works Public Works	-	Cemetary Rd River Street	Churchill Line Courtright Line	Dead End Lisgar St	Road Base and Earthwork Road Base and Earthwork	-	Rural Rural	Gravel HCB	0-49 400-999	Unpaved Paved	1900 1900	100 100	0	100 100	0	114 114	1,170 9,630	1,170 9,630	-	62,451 351,996			0	10 10	1	1 4	2 5	20 50	L M
Public Works Public Works	2000	River Street River Street	Courtright Line	Lisgar St Francis	Road Surface Road Base and Earthwork		Rural Semi-Urban	HCB HCB	400-999 400-999	Paved Paved	2006 1900	20 100	12 0	20 100	12	8 114	105,860 950	37,051 950	68,809	131,308 34,064	10	9	0	1 10	1	4	5	5 70	L
Public Works	2001	River Street	Lisgar Lisgar	Francis	Road Surface	0.12	Semi-Urban	HCB	400-999	Paved	2006	20	12	20	12	8	10,920	3,822	7,098	13,545	10	9		1	3	4	7	7	L
Public Works Public Works		River Street River Street	Francis Francis	Mill Pond Mill Pond	Road Base and Earthwork Road Surface	0.10		LCB LCB	400-999 400-999	Paved Paved	1900 2006	100 20	0 12	100 20	0	114 8	790 9,080	790 3,178	- 5,902	28,387 11,263	9	8	0	10 2	3	4 4	7 7	70 14	H L
Public Works		River Street	Mill Pond	Railroad Line	Road Base and Earthwork		Semi-Urban	HCB	400-999	Paved	1900	100	0	100	0	114	1,300	1,300	-	48,257		-	0	10	3	4	7	70	Н

				Asset Desc	ription						Asse	et Age and	I Useful Life			Financial I	Information			Condition Rating			Coi	nsequence of Fa	ilure		
Department	Asset ID	Road Name	From	То	Component	Section Length (km)	Roadside Enviroment	e Traffic Range	Paved / Unpaved	In Service		emaining Iseful Life	l ife P	AM Remaining Age Jseful Life	Historical Cost Dec. 31, 2013	Accumulated Amortization Dec. 31, 2013		eplacement Cost (2014\$) Inflated	Road Surface Asset Condition (from 2009 Study)	Road Surface Estimated Condition 2014	Road Base and Earthwork Condition (Age Based)	Probability of Failure	Roadside Environment	Traffic Rating	Total Consequence of Failure	Numerical Risk of Failure	Risk of Failure
Public Works Public Works	2003 2004	River Street River Street	Mill Pond Railroad Line	Railroad Line Centre St	Road Surface Road Base and Earthwork		Semi-Urban HCB Urban HCB	400-999 400-999	Paved Paved	2006 1900	20 100	12	20	12 8 0 114	14,890	5,212	9,679	18,469 42,580	8	7	(Age Dased)	3 10	3	4	7	21	L
Public Works	2004	River Street	Railroad Line	Centre St	Road Surface	0.15	Urban HCB	400-999	Paved	1980	20	0	100 20	0 34	26,130 14,290	26,130 14,290	-	53,660	9	8	0	2	5	4	9	18	L
Public Works Public Works	2005 2005	River Street River Street	Centre St Centre St	Sydenham Sydenham	Road Base and Earthwork Road Surface		Urban HCB Urban HCB	400-999 400-999	Paved Paved	1900 1994	100 20	0	100 20	0 114 0 20	1,950 16,330	1,950 15,514	- 817	25,548 32,225	10	9	0	10	5	4 4	9	90 9	E
Public Works	2006	River Street	Sydenham	Lorne St	Road Base and Earthwork	0.08	Urban HCB	400-999	Paved	1900	100	0	100	0 114	1,480	1,480	-	22,709	10	-	0	10	5	4	9	90	E
Public Works Public Works	2006 2006.1	River Street River Street	Sydenham Lorne	Lorne St Wallace St	Road Surface Road Base and Earthwork		Urban HCB Semi-Urban HCB	400-999 400-999	Paved Paved	1994 1900	20	0	20	0 20 0 114	14,470 1,050	13,747 1,050	- 724	28,555 42,580	10	9	0	1 10	5	4	9 7	9 70	H
Public Works Public Works	2006.1 2007	River Street River Street	Lorne Wallace St	Wallace St Shiloh	Road Surface Road Base and Earthwork	0.15		400-999 400-999	Paved Paved	1994 1900	20 100	0	20 100	0 20 0 114	19,050 5,890	18,098 5,890	953	37,593 241,287	10	6	0	4 10	3	4	7	28 70	M
Public Works	2007	River Street	Wallace St	Shiloh	Road Surface	0.85	Semi-Urban HCB	400-999	Paved	1995	20	1	20	1 19	109,150	98,235	10,915	208,893	8	5	0	5	3	4	7	35	M
Public Works Public Works	2008 2008	Wallace Street Wallace Street	River St River St	Elgin St Elgin St	Road Base and Earthwork Road Surface	0.11		50-199 50-199	Paved Paved	1900 2002	100 20	0	100 20	0 114 8 12	830 16,910	830 9,301	- 7,610	31,225 26,047	10	9	0	10	3	2	5	50	M
Public Works	2009	Wallace Street	Elgin St	Walnut	Road Base and Earthwork	0.11	Semi-Urban HCB	50-199	Paved	1900	100	0	100	0 114	760	760	-	31,225			0	10	3	2	5	50	M
Public Works Public Works	2009 2010	Wallace Street Walnut Street	Elgin St The Arena	Walnut Wallace St	Road Surface Road Base and Earthwork	0.11	Semi-Urban HCB Semi-Urban HCB	50-199 50-199	Paved Paved	2002	20	8	20	8 12 0 114	15,600 1,120	8,580 1,120	7,020	24,029 48,257	10	9	0	1 10	3	2	5	5 50	L
Public Works	2010	Walnut Street	The Arena	Wallace St	Road Surface		Semi-Urban HCB	50-199	Paved	1994	20	0	20	0 20	21,440	20,368	1,072	42,309	8	5		5	3	2	5	25	L
Public Works Public Works	2011 2011	Walnut Street Walnut Street	Wallace St Wallace St	Lorne St Lorne St	Road Base and Earthwork Road Surface	0.16		50-199 50-199	Paved Paved	1900 1994	100 20	0	100 20	0 114 0 20	1,020 19,550	1,020 18,573	- 978	45,419 38,579	8	6	0	10 4	3	2	5 5	50 20	L
Public Works	2012	Walnut Street	Lorne	Centre St	Road Base and Earthwork	0.16	Semi-Urban HCB	50-199	Paved	1900	100	0	100	0 114	1,070	1,070	-	45,419	-		0	10	3	2	5	50	M
Public Works Public Works	2012 2013	Walnut Street Walnut Street	Lorne Centre St	Centre St Railroad Line	Road Surface Road Base and Earthwork	0.16	Semi-Urban HCB	50-199 50-199	Paved Paved		20 100	0	20 100	0 20 0 114	20,560 1,090	19,532 1,090	1,028	40,572 42,580	/	6	0	4 10	3	2	5	20 50	M
Public Works Public Works	2013 2014	Walnut Street Elgin Street	Centre St Railroad Line	Railroad Line Centre St	Road Surface Road Base and Earthwork	0.15	Semi-Urban HCB Semi-Urban HCB	50-199 50-199	Paved Paved	1994 1900	20	0	20 100	0 20 0 114	19,050 1.000	18,098	953	37,593 42,580	9	8	0	2	3	2	5	10	L
Public Works	2014	Elgin Street	Railroad Line	Centre St	Road Surface		Semi-Urban HCB	50-199	Paved	1994	20	0	20	0 20	18,920	17,974	946	37,336	8	5	0	5	3	2	5	25	L
Public Works Public Works	2015 2015	Elgin Street Elgin Street	Centre St Centre St	Lorne St Lorne St	Road Base and Earthwork Road Surface	0.16	Semi-Urban HCB Semi-Urban HCB	50-199 50-199	Paved Paved	1900 1994	100 20	0	100 20	0 114 0 20	1,080 20,690	1,080 19,656	- 1,035	45,419 40,829	7	6	0	10 4	3	2	5 5	50 20	M L
Public Works	2016	Elgin Street	Lorne	Wallace St	Road Base and Earthwork	0.15	Semi-Urban HCB	50-199	Paved	1900	100	0	100	0 114	1,010	1,010	-	42,580		-	0	10	3	2	5	50	M
Public Works Public Works	2016 2017	Elgin Street Elgin Street	Lorne Wallace St	Wallace St Dead End	Road Surface Road Base and Earthwork	0.15		50-199 0-49	Paved Paved	2002	20 100	8	20 100	8 12 0 114	22,500 1,400	<u>12,375</u> 1,400	10,125	34,658 56,774	8	7	0	3 10	3	2	5 4	15 40	L M
Public Works Public Works	2017 2018	Elgin Street Morrell Street	Wallace St	Dead End Lorne St	Road Surface Road Base and Earthwork	0.20		0-49 50-199	Paved Paved	2002 1900	20 100	8	20	8 12 0 114	28,670 2,450	15,769 2,450	12,902	44,162 90,838	8	7	0	3 10	3	1	4	12	L
Public Works		Morrell Street	Hwy 79 Hwy 79	Lorne St	Road Surface	0.32		50-199	Paved		20	0	100 20	0 20	40,590	38,561	2,030	90,838	7	6	0	4	3	2	5	20	L
Public Works Public Works	2019 2019	Henry Street	Lorne	Centre St Centre St	Road Base and Earthwork Road Surface	0.16	Semi-Urban HCB Semi-Urban HCB	50-199 50-199	Paved Paved	1900 1994	100 20	0	100 20	0 114 0 20	1,060 20,430	1,060 19,409	- 1,022	45,419 40,316	7	6	0	10	3	2	5	50 20	M
Public Works	2020	Henry Street Henry Street	Centre St	Railroad Line	Road Base and Earthwork	0.15	Semi-Urban HCB	50-199	Paved	1900	100	0	100	0 114	1,020	1,020	-	42,580	1	0	0	10	3	2	5	50	M
Public Works Public Works	2020 2021	Henry Street Lovell Street	Centre St Railroad Line	Railroad Line Centre St	Road Surface Road Base and Earthwork	0.15	Semi-Urban HCB Semi-Urban HCB	50-199 50-199	Paved Paved	1994 1900	20 100	0	20	0 20 0 114	18,920 970	17,974 970	946	37,336 42,580	7	6	0	4 10	3	2	5	20 50	L
Public Works	2021	Lovell Street	Railroad Line	Centre St	Road Surface	0.15	Semi-Urban HCB	50-199	Paved	1994	20	0	20	0 20	18,670	17,737	934	36,843	8	5	0	5	3	2	5	25	L
Public Works Public Works	2022 2022	Lovell Street Lovell Street	Centre St Centre St	Lorne St Lorne St	Road Base and Earthwork Road Surface	0.16		50-199 50-199	Paved Paved	1900 1994	100 20	0	100	0 114 0 20	1,070 20,560	1,070 19,532	- 1,028	45,419 40,572	8	6	0	10 4	3	2	5	50 20	M
Public Works	2023	Elm Street	Dead End	Centre St	Road Base and Earthwork	0.13	Semi-Urban HCB	0-49	Paved	1900	100	0	100	0 114	810	810	-	36,903	-		0	10	3	1	4	40	M
Public Works Public Works	2023 2024	Elm Street Elm Street	Dead End Centre St	Centre St Railroad Line	Road Surface Road Base and Earthwork	0.13		0-49 50-199	Paved Paved	1994 1900	20	0	20	0 20 0 114	16,440 920	15,618 920	- 822	32,442 42,580	7	6	0	4 10	3	1	4 5	16 50	M
Public Works Public Works	2024	Elm Street	Centre St South Town Limits	Railroad Line	Road Surface Road Base and Earthwork	0.15	Semi-Urban HCB Semi-Urban LCB	50-199 50-199	Paved Paved	1994 1900	20 100	0	20 100	0 20 0 114	18,420	17,499 4,130	921	36,349 175,998	7	6	0	4 10	3	2	5	20 50	L
Public Works	2025 2025	Railroad Line Railroad Line	South Town Limits	Elm St Elm St	Road Surface	0.62	Semi-Urban LCB	50-199	Paved	1900	20	0	20	0 22	4,130 76,770	76,770	-	175,998	9	4	U	6	3	2	5	30	M
Public Works Public Works	2026 2026	Railroad Line Railroad Line	Elm St Elm St	Hwy 79 Hwy 79	Road Base and Earthwork Road Surface	0.12		50-199 50-199	Paved Paved	1900 1994	100 20	0	100	0 114 0 20	840 14.760	840	- 738	34,064	9	8	0	10	3	2	5	50 10	M
Public Works	2027	Railroad Line	Hwy 79	Lovell St	Road Base and Earthwork	0.16	Semi-Urban HCB	50-199	Paved	1900	100	0	100	0 114	1,240	1,240	-	45,419			0	10	3	2	5	50	M
Public Works Public Works	2027 2028	Railroad Line Railroad Line	Hwy 79 Lovell St	Lovell St Henry	Road Surface Road Base and Earthwork	0.16		50-199 50-199	Paved Paved		20	0	20	0 20 0 114	20,180 850	19,171 850	1,009	39,822 31,225	9	8	0	2 10	3	2	5 5	10 50	L M
Public Works	2028	Railroad Line	Lovell St	Henry	Road Surface	0.11		50-199	Paved	1994	20	0	20	0 20	13,880	13,186	694	27,390	9	8	<u> </u>	2 10	3	2	5	10	L
Public Works Public Works	2029 2029	Railroad Line Railroad Line	Henry Henry	Walnut Walnut	Road Base and Earthwork Road Surface	0.14	Semi-Urban HCB Semi-Urban HCB	50-199 50-199	Paved Paved	1900 1994	100 20	0	100 20	0 114 0 20	1,060 17,160	1,060 16,302	- 858	<u>39,741</u> 33,863	9	8	0	2	3	2	5	10	L L
Public Works Public Works	2030 2030	Railroad Line Railroad Line	Walnut Walnut	Elgin St Elgin St	Road Base and Earthwork Road Surface	0.11		50-199 50-199	Paved Paved		100 20	0	100 20	0 114 0 20	840 13.620	840 12.939	- 681	31,225 26.877	10	8	0	10	3	2	5	50	M
Public Works	2030	Railroad Line	Elgin St	River St	Road Base and Earthwork	0.11		50-199	Paved	1900	100	0	100	0 114	880	880	-	31,225	10	0	0	10	3	2	5	50	M
Public Works Public Works	2031 2032	Railroad Line Railroad Line	Elgin St River St	River St Church St	Road Surface Road Base and Earthwork	0.11 0.10	Semi-Urban HCB Semi-Urban HCB	50-199 0-49	Paved Paved	1994 1900	20	0	20 100	0 20 0 114	14,250 1,060	13,538 1.060	713	28,120	9	8	0	2 10	3	2	5	10 40	L
Public Works	2032	Railroad Line	River St	Church St	Road Surface	0.10	Semi-Urban HCB	0-49	Paved	1996	20	2	20	2 18	13,090	11,127	1,964	24,585	8	7	-	3	3	1	4	12	L
Public Works Public Works		Church Street Church Street	Railroad Line Railroad Line	Centre St Centre St	Road Base and Earthwork Road Surface		Semi-Urban HCB Semi-Urban HCB	50-199 50-199	Paved Paved		100 20	0	100 20	0 114 2 18	1,220 18,230	1,220 15,496	- 2,735	39,741 34,239	9	8	0	10	3	2	5 5	50 10	M L
Public Works	2034	Church Street	Centre St	Sydenham	Road Base and Earthwork		Semi-Urban HCB	0-49	Paved		100	0	100	0 114	740	740	-	22,709	7	4	0	10	3	1	4	40	M
Public Works Public Works	2035	Church Street Sydenham Street	Centre St Dead End	Sydenham Church St	Road Surface Road Base and Earthwork	0.10	Semi-Urban HCB Semi-Urban Gravel	0-49 0-49	Paved Unpaved	d 1900	100	2	20 100	2 18 0 114	10,600 890	9,010 890	1,590 -	19,908 28,387	/	4	0	6 10	3	1	4 4	24 40	L M
Public Works Public Works	2036 2036.1	Sydenham Street Centre Street	Church Church	River St River St	Road Base and Earthwork Road Base and Earthwork		Semi-Urban Gravel Urban HCB	0-49	Unpaved Paved		100 100	0	100 100	0 114 0 114	870 1,100	870 1.100	-	28,387 28,387			0	10 10	3	1	4	40 60	M H
Public Works	2036.1	Centre Street	Church	River St	Road Surface	0.10	Urban HCB	0-49	Paved	1994	20	0	20	0 20	18,920	17,974		37,336	9	8		2	5	1	6	12	L
Public Works Public Works	2037 2037	Centre Street Centre Street			Road Base and Earthwork Road Surface		Urban HCB Urban HCB	50-199 50-199	Paved Paved		100 20	0 13	100 20	0 114 13 7	1,220 18,670	1,220 6,535		31,225 21,696	10	9	0	10 1	5 5	2 2	7 7	70 7	H L
Public Works Public Works	2038	Centre Street			Road Base and Earthwork Road Surface	0.11	Semi-Urban HCB	50-199	Paved	1900	100	0	100	0 114	810	810 6,188	-	31,225			0	10	3	2	5	50 5	M
Public Works	2038 2039	Centre Street Centre Street			Road Surrace Road Base and Earthwork		Semi-Urban HCB Semi-Urban HCB	50-199 50-199	Paved Paved		20 100	13 0	20 100	13 7 0 114	17,680 1,040	1,040	- 11,492	20,545 39,741	10	9	0	10	3	2	5	5	L M
Public Works Public Works		Centre Street Centre Street			Road Surface Road Base and Earthwork		Semi-Urban HCB Semi-Urban HCB	50-199 50-199	Paved Paved		20	13 0	20 100	13 7 0 114	22,470 800	7,865 800		26,112 28,387	10	9	0	1 10	3	2	5	5 50	L
Public Works	2040	Centre Street			Road Surface	0.10	Semi-Urban HCB	50-199	Paved	2007	20	13	20	13 7	17,020	5,957	11,063	19,778	10	9	0	10	3	2	5	5	L
Public Works Public Works		Centre Street Centre Street	Lovell St	Hwy 79	Road Base and Earthwork Road Surface		Semi-Urban HCB Semi-Urban HCB	50-199 50-199	Paved Paved			76 13	100 20	76 24 13 7	1,240 26,440	1,240 9,254		45,419 30,725	10	9	8	2	3	2	5	10	L
Public Works	2042	Centre Street	Hwy 79	Elm St	Road Base and Earthwork	0.12	Semi-Urban HCB	0-49	Paved	1900	100	0	100	0 114	760	760	-	34,064		Ŭ	0	10	3	1	4	40	M
Public Works Public Works		Centre Street Centre Street	Hwy 79 Elm St	Elm St Dead End	Road Surface Road Base and Earthwork		Semi-Urban HCB Semi-Urban Gravel	0-49	Paved Unpaved			0	20 100	0 20 0 114	15,520 1,520	14,744 1,520		30,627 62,451	8	5	0	5 10	3	1	4 4	20 40	L M
Public Works	2044	Lorne Street	Hwy 79	Lovell St	Road Base and Earthwork	0.16	Semi-Urban HCB	50-199	Paved	1900	100	0	100	0 114	1,300	1,300		45,419	-	_	0	10	3	2	5	50	M
Public Works Public Works		Lorne Street Lorne Street	Hwy 79 Lovell St	Lovell St Henry	Road Surface Road Base and Earthwork		Semi-Urban HCB Semi-Urban HCB	50-199 50-199	Paved Paved		20 100	0	20 100	0 20 0 114	20,060 850	19,057 850	1,003	39,586 28,387	8	6	0	4 10	3	2 2	5 5	20 50	M
Public Works Public Works	2045	Lorne Street Lorne Street	Lovell St	Henry Walnut	Road Surface Road Base and Earthwork	0.10	Semi-Urban HCB Semi-Urban HCB	50-199 50-199	Paved Paved	1994	20	0	20 100	0 20 0 114	12,990 1.020	12,341 1.020	650	25,634 39,741	8	6		4 10	3	2	5	20 50	L
Public Works	2046	Lorne Street	Henry	Walnut	Road Surface	0.14	Semi-Urban HCB	50-199	Paved	1994	20	0	20	0 20	17,410	16,540		34,356	8	7	0	3	3	2	5 5	15	L
Public Works Public Works		Lorne Street Lorne Street	Walnut Walnut	Elgin St Elgin St	Road Base and Earthwork Road Surface		Semi-Urban HCB Semi-Urban HCB	50-199 50-199	Paved Paved		100 20	0	100 20	0 114 0 20	780 13,240	780 12,578	- 662	31,225 26,127	9	8	0	10	3	2	5 5	50 10	M
Public Works	2048	Lorne Street	Elgin St	River St	Road Base and Earthwork	0.11	Semi-Urban HCB	50-199	Paved	1900	100	0	100	0 114	850	850	-	31,225	3		0	10	3	2	5	50	M
Public Works Public Works		Lorne Street Patterson Street	Elgin St	River St Mill Pond	Road Surface Road Base and Earthwork		Semi-Urban HCB Semi-Urban Gravel	50-199 0-49	Paved Unpaved		20	0	20 100	0 20 0 114	14,510 1,340	13,785 1,340	726	28,633 53,935	9	7	0	3 10	3	2	5 4	15 40	L M
Public Works	2050	Mill Street	Hwy 79	Patterson	Road Base and Earthwork	0.21	Semi-Urban Gravel	0-49	Unpaved	d 1900	100	0	100	0 114	1,040	1,040	-	59,612			0	10	3	1	4	40	M
Public Works Public Works				Patterson Patterson	Road Base and Earthwork Road Surface		Semi-Urban LCB Semi-Urban LCB	50-199 50-199	Paved Paved		100 8	0	100 8	0 114 0 24	1,620 24,120	1,620 24,120	-	59,612 46,794	8	4	0	10 6	3	2 2	5 5	50 30	M M
	-	-	-				· · · · ·	-	-	-		-							-								

Public Works 2052 Millpo Public Works 2053 Millpo Public Works 2053 Millpo Public Works 2053 Millpo Public Works 2054 Franc Public Works 2054 Franc Public Works 2055 Franc Public Works 2055 Franc Public Works 2056 Lisgar Public Works 2056 Lisgar Public Works 2057 Broad Public Works 2058 Broad Public Works 2058 Broad Public Works 2059 Broad Public Works 2059 Broad Public Works 2059 Broad Public Works 2050 Broad Public Works 2050 Broad Public Works 3000 Holme Public Works 3001 Moore Public Works 3001 Moore Public Works 3002	Road Name Ilpond Avenue Ilpond Avenue Ilpond Avenue ancis Street ancis Street ancis Street ancis Street agar Street agar Street adway Street	From Patterson Patterson Broadway Broadway River St River St Broadway Broad	To Broadway St Broadway St River St Broadway St Broadway St	Component Road Base and Earthwork Road Surface Road Base and Earthwork Road Surface Road Base and Earthwork	0.30 Se 0.17 Se	emi-Urban emi-Urban	Surface Type HCB HCB	50-199	e Paved / Unpaved Paved	In Service Date		Remaining Useful Life		AM Remaining		Historical Cost	Accumulated	t Book Value	Replacement	Road Surface Asset Condition	Road Surface	Road Base and Earthwork	Probability of Failure			Total	Numerical Risk of Failure	Risk of
Public Works 2052 Millpo Public Works 2053 Millpo Public Works 2054 Franc Public Works 2054 Franc Public Works 2054 Franc Public Works 2055 Franc Public Works 2055 Franc Public Works 2055 Franc Public Works 2056 Lisgar Public Works 2056 Broad Public Works 2058 Broad Public Works 2058 Broad Public Works 2058 Broad Public Works 2059 Broad Public Works 2059 Broad Public Works 2050 Broad Public Works 2060 Broad Public Works 3001 Moore Public Works 3001 Moore Public Works 3001 Moore Public Works 3002 Moore Public Works 3002	Ilpond Avenue Ilpond Avenue Ilpond Avenue ancis Street ancis Street ancis Street ancis Street sgar Street sgar Street	Patterson Broadway River St River St Broadway Broadway	Broadway St River St River St Broadway St Broadway St	Road Surface Road Base and Earthwork Road Surface Road Base and Earthwork	0.30 Se 0.17 Se	emi-Urban			Paved	1000			Life	Useful Life	Age	Dec. 31, 2013		ec. 31, 2013	Cost (2014\$) Inflated	(from 2009 Study)	Estimated Condition 2014	Condition (Age Based)	i anure	Roadside Environment	Traffic Rating	Consequence of Failure	or Failure	Failure
Public Works 2053 Millpo Public Works 2053 Millpo Public Works 2054 Franc Public Works 2054 Franc Public Works 2055 Franc Public Works 2055 Franc Public Works 2055 Franc Public Works 2056 Lisgar Public Works 2057 Broad Public Works 2058 Broad Public Works 2058 Broad Public Works 2059 Broad Public Works 2059 Broad Public Works 2059 Broad Public Works 2050 Broad Public Works 2060 Brook Public Works 3001 Home Public Works 3001 Moore Public Works 3001 Moore Public Works 3002 Moore Public Works 3002 Moore	Ilpond Avenue Ilpond Avenue ancis Street ancis Street ancis Street ancis Street agar Street agar Street	Broadway Broadway River St Broadway Broadway	River St River St Broadway St Broadway St	Road Base and Earthwork Road Surface Road Base and Earthwork	0.17 Se		HCB	E0 100		1900	100	0	100	0	114	2,310	2,310	-	85,160			0	10	3	2	5	50	М
Public Works 2053 Millpo Public Works 2054 Franc Public Works 2055 Franc Public Works 2055 Franc Public Works 2055 Franc Public Works 2056 Lisgar Public Works 2056 Lisgar Public Works 2057 Broad Public Works 2058 Broad Public Works 2058 Broad Public Works 2059 Broad Public Works 2059 Broad Public Works 2059 Broad Public Works 2059 Broad Public Works 2050 Broad Public Works 2060 Broad Public Works 3001 Moore Public Works 3001 Moore Public Works 3002 Moore Public Works 3002 Moore Public Works 3002 Moore	Ilpond Avenue ancis Street ancis Street ancis Street ancis Street sgar Street sgar Street	Broadway River St River St Broadway Broadway	River St Broadway St Broadway St	Road Surface Road Base and Earthwork		anai I Ishan	-	50-199	Paved	1990	20	0	20	0	24	34,400	34,400	-	66,738	8	4		6	3	2	5	30	M
Public Works 2054 Franc Public Works 2054 Franc Public Works 2055 Franc Public Works 2055 Franc Public Works 2056 Lisgar Public Works 2056 Lisgar Public Works 2056 Lisgar Public Works 2057 Broad Public Works 2058 Broad Public Works 2058 Broad Public Works 2059 Broad Public Works 2059 Broad Public Works 2059 Broad Public Works 2050 Broad Public Works 2050 Broad Public Works 2060 Broad Public Works 3001 Moore Public Works 3001 Moore Public Works 3002 Moore Public Works 3002 Moore Public Works 3002 Moore	ancis Street ancis Street ancis Street ancis Street sgar Street sgar Street	River St River St Broadway Broadway	Broadway St Broadway St	Road Base and Earthwork	0.17 Se		HCB	50-199	Paved	1900	100	0	100	0	114	1,350	1,350	-	48,257			0	10	3	2	5	50	M
Public Works 2054 Franc Public Works 2055 Franc Public Works 2055 Franc Public Works 2056 Lisgar Public Works 2057 Broad Public Works 2057 Broad Public Works 2057 Broad Public Works 2058 Broad Public Works 2060 Brook Public Works 2060 Brook Public Works 3001 Moore Public Works 3001 Moore Public Works 3002 Moore Public Works 3002 Moore Public Works 3002 Moore	ancis Street ancis Street ancis Street sgar Street sgar Street	River St Broadway Broadway	Broadway St			emi-Urban	HCB	50-199	Paved	1990	20	0	20	0	24	20,140	20,140	-	39,073	8	5		5	3	2	5	25	
Public Works 2055 Franc Public Works 2056 Lisgan Public Works 2056 Lisgan Public Works 2056 Lisgan Public Works 2057 Broad Public Works 2057 Broad Public Works 2058 Broad Public Works 2058 Broad Public Works 2059 Broad Public Works 2059 Broad Public Works 2059 Broad Public Works 2050 Broad Public Works 2050 Broad Public Works 3001 Moore Public Works 3001 Moore Public Works 3002 Moore Public Works 3002 Moore	ancis Street ancis Street sgar Street sgar Street	Broadway Broadway			0.20 0.	emi-Urban	HCB	50-199	Paved	1900	100	0	100	0	114	1,490	1,490	-	65,290			0	10	3	2	5	50	M
Public Works 2055 Franc Public Works 2056 Lisgar Public Works 2057 Broad Public Works 2057 Broad Public Works 2057 Broad Public Works 2058 Broad Public Works 2058 Broad Public Works 2059 Broad Public Works 2059 Broad Public Works 2060 Brook Public Works 2060 Brook Public Works 3001 Moore Public Works 3001 Moore Public Works 3002 Moore Public Works 3002 Moore Public Works 3002 Moore	ancis Street sgar Street sgar Street	Broadway		Road Surface		emi-Urban	HCB	50-199	Paved	1994	20	0	20	0	20	28,660	27,227	1,433	56,557	8	6	_	4	3	2	5	20	
Public Works 2056 Lisgar Public Works 2057 Broad Public Works 2057 Broad Public Works 2058 Broad Public Works 2058 Broad Public Works 2058 Broad Public Works 2059 Broad Public Works 2059 Broad Public Works 2059 Broad Public Works 2060 Brook Public Works 3000 Holme Public Works 3001 Moore Public Works 3001 Moore Public Works 3002 Moore Public Works 3002 Moore	sgar Street		Dead End	Road Base and Earthwork		emi-Urban	HCB	0-49	Paved	1900	100	0	100	0	114	670	670	-	28,387	_	-	0	10	3	$\frac{1}{1}$	4	40	M
Public Works 2056 Lisgar Public Works 2057 Broad Public Works 2057 Broad Public Works 2058 Broad Public Works 2058 Broad Public Works 2059 Broad Public Works 2059 Broad Public Works 2059 Broad Public Works 2060 Broad Public Works 3000 Holme Public Works 3001 Moore Public Works 3001 Moore Public Works 3002 Moore	sgar Street		Dead End	Road Surface		emi-Urban	HCB	0-49	Paved	1994	20	0	20	0	20	12,870	12,227	644	25,397	7	6	_	4	3	$\frac{1}{1}$	4	16	
Public Works 2057 Broad Public Works 2057 Broad Public Works 2058 Broad Public Works 2058 Broad Public Works 2058 Broad Public Works 2059 Broad Public Works 2059 Broad Public Works 2060 Brook Public Works 3000 Holme Public Works 3001 Moore Public Works 3002 Moore Public Works 3002 Moore	0	River St	Broadway St	Road Base and Earthwork		emi-Urban	HCB	0-49	Paved	1900	100	0	100	0	114	2,070	2,070	-	85,160	-	0	0	10	3	+	4	40	M
Public Works 2057 Broad Public Works 2058 Broad Public Works 2058 Broad Public Works 2059 Broad Public Works 2059 Broad Public Works 2059 Broad Public Works 2059 Broad Public Works 2060 Brook Public Works 3000 Holme Public Works 3001 Moore Public Works 3002 Moore Public Works 3002 Moore Public Works 3002 Moore	oadway Street	River St	Broadway St	Road Surface		emi-Urban	HCB	0-49	Paved		20	0	20	0	20	37,240	35,378	1,862	73,488	/	6	0	4	3	1	4	16	
Public Works 2058 Broad Public Works 2058 Broad Public Works 2059 Broad Public Works 2059 Broad Public Works 2059 Broad Public Works 2060 Broad Public Works 2060 Broad Public Works 3001 Moore Public Works 3001 Moore Public Works 3002 Moore Public Works 3002 Moore	and your Chroat	Dead End Dead End	LisgarSt	Road Base and Earthwork Road Surface		emi-Urban emi-Urban	HCB HCB	50-199 50-199	Paved Paved	1900 1990	100	0	100	0	114 24	2,260 36.010	2,260 36.010	-	87,999 69.861	7	6	0	10 4	3	$\frac{2}{2}$	5	50	M
Public Works 2058 Broad Public Works 2059 Broad Public Works 2059 Broad Public Works 2060 Brook Public Works 2060 Hone Public Works 3001 Moore Public Works 3001 Moore Public Works 3002 Moore Public Works 3002 Moore	oadway Street oadway Street	Lieger	LisgarSt Francis	Road Sunace Road Base and Earthwork		emi-Urban	HCB	50-199	Paved	1990	20	0	100	0	114	36,010	810	-	31,225	1	0	0	4			5	20	M
Public Works 2059 Broad Public Works 2059 Broad Public Works 2060 Brook Public Works 3000 Holme Public Works 3001 Moore Public Works 3001 Moore Public Works 3002 Moore Public Works 3002 Moore Public Works 3002 Moore	oadway Street	Lisgar	Francis	Road Base and Earthwork		emi-Urban	HCB	50-199	Paved	1900	20	0	20	0	24	12,930	12.930	-	25.085	0	0	0	4			5	50	
Public Works 2059 Broad Public Works 2060 Broak Public Works 3000 Holme Public Works 3001 Moore Public Works 3001 Moore Public Works 3002 Moore Public Works 3002 Moore Public Works 3002 Moore	oadway Street	Francis	Mill Pond	Road Base and Earthwork		emi-Urban	HCB	50-199	Paved	1990	100	0	100	0	114	810	810	-	31,225	0	0	0	4	3	2	5	50	M
Public Works 2060 Brook Public Works 3000 Holme Public Works 3001 Moore Public Works 3001 Moore Public Works 3002 Moore Public Works 3002 Moore	oadway Street	Francis	Mill Pond	Road Surface		emi-Urban	HCB	50-199	Paved		20	0	20	0	24	12.810	12.810	-	24.852	8	6	0	4	3	2	5	20	
Public Works 3000 Holme Public Works 3001 Moore Public Works 3001 Moore Public Works 3002 Moore Public Works 3002 Moore	ooke Street	River St	Dead End	Road Base and Earthwork		emi-Urban	Gravel	0-49	Unpaved	1900	100	0	100	0	114	4.310	4.310	-	241,032	0	0	0	10	3		4	40	M
Public Works 3001 Moore Public Works 3001 Moore Public Works 3002 Moore Public Works 3002 Moore	lmes Street	Inwood Rd	Weidman	Road Base and Earthwork	0.00 0.	emi-Urban	Gravel	0-49	Unpaved	1900	100	0	100	0	114	760	760	-	31,225			0	10	3	1	4	40	M
Public Works 3001 Moore Public Works 3002 Moore Public Works 3002 Moore	pore Street	Inwood Rd	Queen St	Road Base and Earthwork	0.12 Ur		LCB	0-49	Paved	2013	100	99	100	99	1	1,710	1.710	-	34.064			10	0	5	1	6	0	
Public Works 3002 Moore	pore Street	Inwood Rd	Queen St	Road Surface	0.12 Ur		LCB	0-49	Paved	2013	8	7	8	7	1	2,158	1,349	809	2,186	7	10	10	1	5	1	6	6	
	oore Street	Queen St	Dead End	Road Base and Earthwork	0.13 Se	emi-Urban	LCB	0-49	Paved	2013	100	99	100	99	1	900	900	-	36,903			10	0	3	1	4	0	
Public Works 3003 Queer	oore Street	Queen St	Dead End	Road Surface	0.13 Se	emi-Urban	LCB	0-49	Paved	2013	8	7	8	7	1	2,337	1,461	876	2,368	7	10		1	3	1	4	4	
	ueen Street	Moore St	Centre St	Road Base and Earthwork	0.26 Se	emi-Urban	LCB	0-49	Paved	2013	100	99	100	99	1	2,110	2,110	-	73,806			10	0	3	1	4	0	
Public Works 3003 Queer	ueen Street	Moore St	Centre St	Road Surface	0.26 Se	emi-Urban	LCB	0-49	Paved	2013	8	7	8	7	1	4,675	2,922	1,753	4,736	6	10		1	3	1	4	4	
Public Works 3004 Queer	ueen Street	Centre St	Dead End	Road Base and Earthwork	0.17 Se	emi-Urban	LCB	0-49	Paved	2013	100	99	100	99	1	1,170	1,170	-	48,257			10	0	3	1	4	0	L
Public Works 3004 Queer	ueen Street	Centre St	Dead End	Road Surface	0.17 Se	emi-Urban	LCB	0-49	Paved	2013	8	7	8	7	1	3,057	1,911	1,146	3,097	6	10		1	3	1	4	4	L
Public Works 3005 Mcnal	cnally Street	Queen St	Inwood Rd	Road Base and Earthwork	0.12 Se	emi-Urban	LCB	0-49	Paved	2013	100	99	100	99	1	760	760	-	34,064			10	0	3	1	4	0	L
Public Works 3005 Mcnal	cnally Street	Queen St	Inwood Rd	Road Surface	0.12 Se	emi-Urban	LCB	0-49	Paved	2013	8	7	8	7	1	15,390	15,390	-	15,592	9	10		1	3	1 1	4	4	L
Public Works 3006 James	mes Street	Inwood Rd	Park St	Road Base and Earthwork	0.13 Se	emi-Urban	HCB	50-199	Paved	1900	100	0	100	0	114	1,180	1,180	-	36,903			0	10	3	2	5	50	M
Public Works 3006 James	mes Street	Inwood Rd	Park St	Road Surface		emi-Urban	HCB	50-199	Paved	2002	20	8	20	8	12	18,970	10,434	8,537	29,220	5	3		7	3	2	5	35	М
	mes Street	Inwood Rd	Park St	BETTERMENTS		emi-Urban	HCB	50-199	Paved	2009	8	3	8	3	5	2,337	1,461	876	2,527	5	3		7	3	2	5	35	M
	mes Street	Park St	Dead End	Road Base and Earthwork		emi-Urban	HCB	50-199	Paved	1900	100	0	100	0	114	4,400	4,400	-	136,256			0	10	3	2	5	50	M
	mes Street	Park St	Dead End	Road Surface		emi-Urban	HCB	50-199	Paved	2002	20	8	20	8	12	71,170	39,144	32,027	109,626	5	3		7	3	2	5	35	M
	mes Street	Park St	Dead End	BETTERMENTS		emi-Urban	HCB	50-199	Paved	2009	8	3	8	3	5	8,631	5,394	3,237	9,332	5	3	_	7	3	2	5	35	M
	ark Street	James	Atkinson	Road Base and Earthwork		emi-Urban	HCB	50-199	Paved	1900	100	0	100	0	114	680	680	-	28,387	_	_	0	10	3	2	5	50	M
	ark Street	James	Atkinson	Road Surface BETTERMENTS		emi-Urban emi-Urban	HCB HCB	50-199	Paved	2004	20	10	20	10	10	14,630 1,798	6,584	8,047	20,388	5	3		7	3	2	5	35	M
		James	Atkinson					50-199	Paved		8	3	8	3	•	.,	1,124	674	.,	5	3	0	10	3	$\frac{2}{2}$	5	35	
	ark Street	Atkinson	Inwood Rd	Road Base and Earthwork		emi-Urban	HCB	50-199	Paved	1900	100	0	100	0	114 10	2,300	2,300	-	90,838	-	0	U	10	3	+ 2	5	50	M
	ark Street ark Street	Atkinson Atkinson	Inwood Rd Inwood Rd	Road Surface BETTERMENTS		emi-Urban emi-Urban	HCB HCB	50-199 50-199	Paved Paved	2004 2009	20	10	20	10	10	49,420 5,754	22,239	27,181 2,158	68,871 6,221	5	3		7	3		5	35	M
			Park St	Road Base and Earthwork		emi-Urban emi-Urban	HCB	50-199	Paved	2009	8	3	8	3	5 114	5,754	3,596	∠,158	6,221 36,903	Э	3	0	10	3	$+\frac{2}{2}$	5	35 50	M
	kinson Street kinson Street	Inwood Rd Inwood Rd	Park St Park St	Road Base and Earthwork Road Surface		emi-Urban emi-Urban	HCB	50-199	Paved	2004	20	10	20	10	114	19.710	870	- 10.841	27,467	5	3	U	7	- 3	$\frac{2}{2}$	5	35	M
		Inwood Rd	Park St	BETTERMENTS	0.10 00	emi-Urban	HCB	50-199	Paved	2004	20	3	20	3	5	2.337	1.461	876	27,467	5	3		- 7	- 3		5	35	M
		Atkinson	Dead End	Road Base and Earthwork		emi-Urban	HCB	0-49	Unpaved	1900	0 100	0	0 100	0	5 114	410	410	0/0	36,903	U	3	0	10			5	35 40	M
T UDIC WORKS SUTT BEAVE	kinson Street kinson Street																											

			Asset De	escription					Asset Age an	d Useful Life				Financial Inform	nation		Condition				
Department	Asset ID	Location	Name/Details	Bridge / Culvert	Asset Description	Component	In Service Date	Useful Life	Remaining Useful Life	AM Useful Life	AM Remaining Useful Life	Age	Historical Cost Dec. 31, 2013	Accumulated Amortization Dec. 31, 2013	Net Book Value Dec. 31, 2013	Replacement Cost (2014\$) Inflated	Rating (Based on 2009 Study) (1 to 4)	Probability of Failure	Consequence of Failure	Risk of Failure	Risk of Failure
																		4	4	16	
Public Works	3	Petrolia Line		Bridge	I-Beam	Earth work, abutm'ts & piers	1965	80	31	80	31	49	\$ 4,533,797 36,221	\$ 2,496,082 21,732	\$ 2,037,714 14,488	\$ 27,235,128 383,341	3.31	0.69	3.00	2.09	
Public Works	3	Petrolia Line		Bridge	I-Beam	Super - Structure	1965	40	0	40	0	49	17,708	17,708	-	187,411	3.31	0.69	3.00	2.09	L
Public Works	3	Petrolia Line		Bridge	I-Beam	Deck & Surface	1965	40	0	40	0	49	26,562	26,562	-	281,116	3.31	0.69	3.00	2.09	L
Public Works Public Works	3 4	Petrolia Line Hardy Creek Road	Hardy Creek Sect 1074	Bridge Bridge	I-Beam Rigid Frame	Guiderails Earth work, abutm'ts & piers	1965 1965	30 80	0 31	30 80	0 31	49 49	3,639 37,954	3,639 22,773	- 15,181	38,510 401,682	3.31 2.60	0.69	3.00 3.00	2.09 4.20	M
Public Works	4	Hardy Creek Road	Hardy Creek Sect 1074	Bridge	Rigid Frame	Super - Structure	1965	40	0	40	0	49	18,555	18,555	-	196,378	2.60	1.40	3.00	4.20	M
Public Works	4	Hardy Creek Road		Bridge	Rigid Frame	Deck & Surface	1965	40	0	40	0	49	27,833	27,833	-	294,567	2.60	1.40	3.00	4.20	M
Public Works Public Works	6	Rokeby Line Rokeby Line	McEachern Bridge McEachern Bridge	Bridge Bridge	I-Beam I-Beam	Earth work, abutm'ts & piers Super - Structure	1955 1955	80 40	21 0	<u>80</u> 40	21 0	59 59	49,413 24,157	35,824 24,157	13,588	709,873 347,049	3.37 3.37	0.63	3.00 3.00	1.89 1.89	
Public Works	6	Rokeby Line		Bridge	I-Beam	Deck & Surface	1955	40	0	40	0	59	36,236	36,236	-	520,573	3.37	0.63	3.00	1.89	L
Public Works	6	Rokeby Line	•	Bridge	I-Beam	Structure Betterments	1955	30	0	30	0	59	267,935	71,449	196,485	3,849,205	3.37	0.63	3.00	1.89	L
Public Works Public Works	8	Rokeby Line Rokeby Line	0	Bridge Bridge	T-Beam T-Beam	Earth work, abutm'ts & piers Super - Structure	1973 1973	80 40	39 0	<u>80</u> 40	39 0	41 41	106,817 52,222	53,409 52,222	53,408	650,149 317,850	3.39 3.39	0.61	3.00 3.00	1.83 1.83	L
Public Works	8	Rokeby Line	v	Bridge	T-Beam	Deck & Surface	1973	40	0	40	0	41	78,333	78,333	-	476,776	3.39	0.61	3.00	1.83	L
Public Works	8	Rokeby Line	Mitchells Bridge	Bridge	T-Beam	Guiderails	1973	30	0	30	0	41	5,105	5,105	-	31,070	3.39	0.61	3.00	1.83	L
Public Works Public Works	9	Hardy Creek Road Hardy Creek Road	Hardy Creek Sect 1072 Hardy Creek Sect 1072	Bridge Bridge	I-Beam I-Beam	Earth work, abutm'ts & piers Super - Structure	1979 1979	80 40	45 5	<u>80</u> 40	45 5	35 35	189,405 92,598	80,497 78,708	108,908 13,890	799,577 390,904	3.45 3.45	0.55 0.55	3.00 3.00	1.65 1.65	L
Public Works	9	Hardy Creek Road	Hardy Creek Sect 1072	Bridge	I-Beam	Deck & Surface	1979	40	5	40	5	35	138,897	118,062	20,835	586,356	3.45	0.55	3.00	1.65	L
Public Works	9	Hardy Creek Road	Hardy Creek Sect 1072	Bridge	I-Beam	Guiderails	1979	30	0	30	0	35	8,652	8,652	-	36,524	3.45	0.55	3.00	1.65	L
Public Works	13	Shiloh Line		Bridge	Rigid Frame	Earth work, abutm'ts & piers	1990	80	56	80	56	24	163,309	46,951	116,358	316,829	2.94	1.06	3.00	3.19	L
Public Works Public Works	13 13	Shiloh Line Shiloh Line		Bridge Bridge	Rigid Frame Rigid Frame	Super - Structure Deck & Surface	1990 1990	40 40	16 16	40	16 16	24 24	79,840 119,760	45,908 68,862	33,932 50,898	154,894 232,341	2.94 2.94	1.06	3.00 3.00	3.19 3.19	
Public Works	13	Shiloh Line		Bridge	Rigid Frame	Guiderails	1990	30	6	30	6	24	16,963	13,005	3,958	32,910	2.94	1.06	3.00	3.19	L
Public Works	14	Argyl Road	Walsh Bridge	Bridge	I-Beam	Earth work, abutm'ts & piers	1935	80	1	80	1	79	7,325	7,142	183	248,354	1.72	2.28	3.00	6.84	M
Public Works Public Works	14	Argyl Road Argyl Road	Walsh Bridge Walsh Bridge	Bridge Bridge	I-Beam I-Beam	Super - Structure Deck & Surface	1935 1935	40 40	0	<u>40</u> 40	0	79 79	3,581 5,371	3,581 5,371	-	121,418 182,126	1.72 1.72	2.28	3.00 3.00	6.84 6.84	M
Public Works	14	Argyl Road	, and the second	Bridge	I-Beam	Structure Betterments	1935	30	0	30	0	79	6,000	4,800	1,200	203,442	1.72	2.28	3.00	6.84	M
Public Works	15	Shiloh Line		Bridge	I-Beam	Earth work, abutm'ts & piers	1971	80	37	80	37	43	97,196	51,028	46,168	695,376	3.43	0.57	3.00	1.71	L
Public Works Public Works	15 15	Shiloh Line Shiloh Line		Bridge Bridge	I-Beam I-Beam	Super - Structure Deck & Surface	1971 1971	40 40	0	40	0	43 43	47,518 71,277	47,518 71,277	-	339,961 509,942	3.43 3.43	0.57	3.00 3.00	1.71 1.71	
Public Works	15	Shiloh Line		Bridge	I-Beam	Guiderails	1971	30	0	30	0	43	4,529	4,529	-	32,401	3.43	0.57	3.00	1.71	L
Public Works	17	Cameron Road	Dolbear Bridge	Bridge	Dolbear Bridge	Earth work, abutm'ts & piers	1930	80	0	80	0	84	17,938	17,938	-	528,136	3.17	0.83	3.00	2.48	L
Public Works Public Works	17	Cameron Road Cameron Road	Dolbear Bridge Dolbear Bridge	Bridge Bridge	Dolbear Bridge Dolbear Bridge	Super - Structure Deck & Surface	1930 1930	40 40	0	40	0	84 84	8,770 13,155	8,770 13,155	-	258,200 387,300	3.17 3.17	0.83	3.00 3.00	2.48 2.48	L
Public Works	17	Cameron Road	0	Bridge	Dolbear Bridge	Guiderails	1930	30	0	30	0	84	1,976	1,976	-	58,190	3.17	0.83	3.00	2.48	L
Public Works	17	Cameron Road	*	Bridge	Dolbear Bridge	Structure Betterments	2008	15	9	15	9	6	178,249	71,299	106,949	189,046	3.17	0.83	3.00	2.48	L
Public Works	37 37	Old Walnut Road	Brown's Creek Bridge	Bridge	Rigid Frame	Earth work, abutm'ts & piers	1994 1994	80 40	60	<u>80</u> 40	60	20	175,546 85,822	41,692 40,766	133,854 45,057	346,415 169,359	4.00	0.00	3.00 3.00	0.00	L
Public Works Public Works	37	Old Walnut Road Old Walnut Road	Brown's Creek Bridge Brown's Creek Bridge	Bridge Bridge	Rigid Frame Rigid Frame	Super - Structure Deck & Surface	1994	40	20 20	40	20 20	20 20	128,734	61,148	67,585	254,038	4.00 4.00	0.00	3.00	0.00	L
Public Works	38	LaSalle Line	Ŭ	Bridge	I-Beam	Earth work, abutm'ts & piers	1966	80	32	80	32	48	41,392	24,318	17,074	414,749	3.05	0.95	3.00	2.85	L
Public Works	38	LaSalle Line		Bridge	I-Beam	Super - Structure Deck & Surface	1966 1966	40 40	0	40 40	0	48 48	20,236 30,354	20,236	-	202,766 304,150	3.05	0.95	3.00	2.85	L
Public Works Public Works	38 38	LaSalle Line LaSalle Line		Bridge Bridge	I-Beam I-Beam	Structure Betterments	1966	40 30	0	30	0	40 48	30,354	30,354 7,364	- 24,197	316,245	3.05 3.05	0.95	3.00 3.00	2.85 2.85	L
Public Works	1	LaSalle Line		Culvert	Arch Culvert, Steel	Structure	1977	50	13	50	13	37	31,773	22,877	8,896	156,107	3.00	1.00	3.00	3.00	L
Public Works	2	White Pine Road		Culvert	Arch Culvert, Steel	Structure	1985	50	21	50	21	29	60,311	33,774	26,537	162,582	2.80	1.20	3.00	3.60	L
Public Works Public Works	5	Petrolia Line Rokeby Line		Culvert Culvert	Arch Culvert, Steel Arch Culvert, Steel	Structure Structure	1976 1975	50 50	12 11	50 50	12 11	38 39	132,294 25,324	97,898 19,247	34,397 6,078	649,993 120,928	2.56 2.52	1.44	3.00 3.00	4.32 4.44	M
Public Works	10	Gully Mor Road		Culvert	Arch Culvert, Steel	Structure	1980	50	16	50	16	34	30,948	20,426	10,523	116,212	3.00	1.00	3.00	3.00	L
Public Works	11	Gully Mor Road		Culvert	Arch Culvert, Steel	Structure	1980	50	16	50	16	34	50,501	33,330	17,170	189,633	3.10	0.90	3.00	2.70	L
Public Works Public Works	12 16	Maple Ridge Line Brooke Line		Culvert Culvert	Rectangular Culvert, Concrete Rectangular Culvert, Concrete	Structure Structure	1990 1955	80 80	56 21	<u>80</u> 80	56 21	24 59	83,297 8,695	23,948 6,304	59,349 2,391	161,601 124,920	4.00 3.00	0.00	3.00 3.00	0.00 3.00	
Public Works	18	Old Walnut Road		Culvert	Arch Culvert, Steel	Structure	1980	50	16	50	16	34	49,394	32,600	16,794	185,477	2.80	1.20	3.00	3.60	L
Public Works	19	Fields Line		Culvert	Round Culvert, Steel	Structure	1987	50	23	50	23	27	136,907	71,192	65,715	312,789	4.00	0.00	3.00	0.00	L
Public Works	19	Fields Line		Culvert	Round Culvert, Steel Round Culvert, Steel	Guiderails Structure	1987 1991	30	3 27	30 50	3 27	27 23	14,817 145,855	12,841	1,976 81,679	33,852 295,840	4.00	0.00	3.00 3.00	0.00	L
Public Works Public Works	20 21	Aberfeldy Line Sutorville Road		Culvert Culvert	Arch Culvert, Steel	Structure Structure	1991	50 50	16	50	16	23 34	55,658	64,176 36,734	18,924	295,840	3.54 3.00	1.00	3.00	3.00	L
Public Works	22			Culvert	Arch Culvert, Steel	Structure	1980	50	16	50	16	34	77,738	51,307	26,431	291,912	2.60	1.40	3.00	4.20	М
Public Works	23	Oil Springs Line		Culvert	Arch Culvert, Steel	Structure	1987	50	23	50	23	27	79,054	41,108	37,946	180,613	3.00	1.00	3.00	3.00	L
Public Works Public Works	24 25	Oil Springs Line Little Ireland Road		Culvert Culvert	Arch Culvert, Steel Arch Culvert, Steel	Structure Structure	1980 1970	50 50	16 6	50 50	16 6	34 44	70,053 32,605	46,235 28,040	23,818 4,565	263,054 253,553	3.00 2.20	1.00 1.80	3.00 3.00	3.00 5.40	L M
Public Works	26	Little Ireland Road		Culvert	Rectangular Culvert, Concrete	Structure	1955	80	21	80	21	59	10,682	7,745	2,937	153,461	2.46	1.54	3.00	4.62	M
Public Works	27	Old Walnut Road		Culvert	Arch Culvert, Steel	Structure	1978	50	14	50	14	36	63,057	44,140	18,917	290,230	2.80	1.20	3.00	3.60	L
Public Works Public Works	28 29	Rail Road Line Shiloh Road		Culvert Culvert	Rectangular Culvert, Concrete Rectangular Culvert, Concrete	Structure Structure	1950 1950	80 80	16 16	80 80	16 16	64 64	6,947 136,607	5,471 5,123	1,476 131,485	124,258 2,443,348	2.82 2.90	1.18	3.00 3.00	3.54 3.30	
Public Works	30	Shiloh Road		Culvert	Arch Culvert, Steel	Structure	1950	50	6	50	6	44	23,714	20,394	3,320	184,415	2.90	1.10	3.00	3.30	L
			L						-				20,	20,004	0,020	,					

			Asset D	Description					Asset Age an	d Useful Life				Financial Inform	nation		Condition				
Department	Asset ID	Location	Name/Details	Bridge / Culvert	Asset Description	Component	In Service Date	Useful Life	Remaining Useful Life	AM Useful Life	AM Remaining Useful Life	Age	Historical Cost Dec. 31, 2013	Accumulated Amortization Dec. 31, 2013	Net Book Value Dec. 31, 2013	Replacement Cost (2014\$) Inflated	Rating (Based on 2009 Study) (1 to 4)	Probability of Failure	Consequence of Failure	Risk of Failure	Risk of Failure
Public Works	31	Weidman Line		Culvert	Arch Culvert, Steel	Structure	1970	50	6	50	6	44	16,017	13,774	2,242	124,553	2.90	1.10	3.00	3.30	L
Public Works	32	Rokeby Line		Culvert	Round Culvert, Steel	Structure	1970	50	6	50	6	44	16,110	13,854	2,255	125,276	3.59	0.41	3.00	1.23	L
Public Works	33	Sutorville Road		Culvert	Arch Culvert, Steel	Structure	1988	50	24	50	24	26	73,800	36,900	36,900	156,371	2.00	2.00	3.00	6.00	М
Public Works	34	Shiloh Line		Culvert	Rectangular Culvert, Concrete	Structure	2004	80	70	80	70	10	174,180	19,595	154,585	242,734	3.00	1.00	3.00	3.00	L
Public Works	35	Little Ireland Road		Culvert	Arch Culvert, Steel	Structure	1970	50	6	50	6	44	19,302	16,600	2,702	150,105	2.67	1.33	3.00	3.99	L
Public Works	36	Little Ireland Road		Culvert	Arch Culvert, Steel	Structure	1970	50	6	50	6	44	20,150	17,329	2,821	156,696	3.00	1.00	3.00	3.00	L
Public Works	39	Little Ireland Road		Culvert	Rectangular Culvert, Concrete	Structure	1950	80	16	80	16	64	7,654	6,027	1,626	136,891	2.80	1.20	3.00	3.60	L /
Public Works	40	Little Ireland Road		Culvert	Arch Culvert, Steel	Structure	1950	50	0	50	0	64	9,242	9,242	-	165,293	3.00	1.00	3.00	3.00	L
Public Works	41	Sutorville Road		Culvert	Rectangular Culvert, Concrete	Structure Betterments	1950	80	16	80	16	64	23,054	1,153	21,901	412,342	2.22	1.78	3.00	5.34	M
Public Works	42	Sutorville Road		Culvert	Rectangular Culvert, Concrete	Structure	1950	80	16	80	16	64	8,617	6,786	1,831	154,131	3.00	1.00	3.00	3.00	L
Public Works	43	Sutorville Road		Culvert	Arch Culvert, Steel	Structure	1970	50	6	50	6	44	18,861	16,220	2,641	146,674	3.00	1.00	3.00	3.00	L
Public Works	44	Sutorville Road		Culvert	Rectangular Culvert, Concrete	Structure	1970	80	36	80	36	44	12,336	6,631	5,706	95,932	2.82	1.18	3.00	3.54	L
Public Works	45	Sutorville Road		Culvert	Arch Culvert, Steel	Structure	1990	50	26	50	26	24	61,431	28,258	33,173	119,180	3.00	1.00	3.00	3.00	L
Public Works	46	Inwood Road		Culvert	Arch Culvert, Steel	Structure	1970	50	6	50	6	44	19,018	16,355	2,662	147,893	2.90	1.10	3.00	3.30	L
Public Works	47	Inwood Road		Culvert	Arch Culvert, Steel	Structure	1970	50	6	50	6	44	22,431	19,291	3,140	174,438	2.90	1.10	3.00	3.30	L
Public Works	48	LaSalle Line		Culvert	Rectangular Culvert, Concrete	Structure	1950	80	16	80	16	64	38,529	30,341	8,188	689,127	3.00	1.00	3.00	3.00	L
Public Works	49	Inwood Road		Culvert	Circular Culvert, Steel	Structure	1990	50	26	50	26	24	45,992	21,157	24,836	89,228	3.80	0.20	3.00	0.60	L
Public Works	50	Inwood Road		Culvert	Rectangular Culvert	Structure	2012	80	78	80	78	2	39,192	980	38,213	39,865	4.00	0.00	3.00	0.00	L
Public Works	50	Inwood Road		Culvert	Rectangular Culvert	Structure	2012	30	28	30	28	2	7,007	234	6,773	7,127	4.00	0.00	3.00	0.00	L

WATER CAPITAL ASSETS

FACILITIES

	Asset Description				Asset Age an	nd Useful Life	•				Financial Infor	mation						
Department	Asset ID Asset Description	Location	In Service Date	Useful Life	Remaining Useful Life	AM Useful Life	AM Remaining Useful Life	Age	Historical Cos Dec. 31, 2013		Accumulated Amortization Dec. 31, 2013	Net Book Value Dec. 31, 2013	Penlacement	Condition Rating (Based on Age)	Probability of Failure	Consequence of Failure	Numerical Risk of Failure	Risk of Failure
															5	5	25	
									\$ 1,112,	434	\$ 571,924	\$ 540,510	\$ 6,003,498					
Water	I-2220-0830-0100 WATER TOWER UPGRADES	LORNE STREET	2005	20	11	20	11	9	93,	458	42,056	51,402	-	3	2	4	8	М
Water	WATER TREATMENT PLANT - Resevoir	CHURCH STREET	1975	75	36	75	36	39	838,	,400	435,968	402,432	4,003,498	2	3	4	12	М
Water	WATER TOWER	LORNE STREET	1975	75	36	50	11	39	180,	576	93,900	86,676	2,000,000	1	4	4	16	Н
	Water Tower - Structural		1975	75	36	50	11	39					1,707,168	1	4	4	16	Н
	Water Tower - Electrical and Instrumental		2005	75	66	20	11	9					78,671	3	2	4	8	M
	Water Tower - Mechanical and Process Equipment		2005	75	66	30	21	9					104,895	4	1	4	4	L
	Water Tower - Siteworks		1975	75	36	50	11	39					109,266	1	4	4	16	Н

MACHINERY AND EQUIPMENT

	Asset Description				Asset Age an	d Useful Life				Financial Infor	mation						
Department Asset ID	Asset Description	Location	In Service Date	Useful Life	Remaining Useful Life	AM Useful Life	AM Remaining Useful Life	Age	Historical Cost Dec. 31, 2013	Accumulated Amortization Dec. 31, 2013	Net Book Value Dec. 31, 2013	Cost (2014\$)	Condition Rating (Based on Age)	Probability of Failure	Consequence of Failure	Numerical Risk of Failure	Risk of Failure
														5	5	25	
									\$ 29,899	\$ 18,137	\$ 11,762	\$ 34,854					
Water I-2230-0831-0001	HIGH LIFT PUMP REPAIRS	CHURCH STREET	2006	10	2	10	2	8	9,087	7,269	1,817	10,616	1	4	2	8	M
Water	WATER PLANT HEATER	CHURCH STREET	2007	10	3	10	3	7	2,214	1,549	664	2,538	2	3	2	6	L
Water	LIFTING DEVICES	CHURCH STREET	2008	10	4	10	4	6	6,324	3,794	2,530	7,127	2	3	2	6	L
Water	COMMUNICATIONS EQUIP TOWER	LORNE STREET	2005	20	11	20	11	9	12,275	5,524	6,751	14,573	3	2	2	4	L

			As	set Description							Asset Age an	d Useful Life				Financial Inform	nation						
Department	ID Number	Road Reference ID	Street	From	То	Diameter (mm)	Length (m)	Pipe Material	In Service Date	Useful Life	Remaining Useful Life	AM Useful Life	AM Remaining Useful Life	Age	Historical Cost Dec. 31, 2013	Accumulated Amortization Dec. 31, 2013	Net Book Value Dec. 31, 2013	Replacement Cost (2014\$) Inflated	Condition Rating (Based on Age)	Total Probability of Failure	Consequence of Failure (Based on Pipe Size)	Numerical Risk of Failure	Risk of Failure
															\$ 3,922,861	\$ 887,897	\$ 3,034,964	\$ 9,870,693		5	10	50	
Water	66	2036.1	CENTRE STREET	Church	River St	150	102.01	PVC	1975	75	36	75	36	39	3,922,001 16,643	a 667,697 8,432	\$ 3,034,904 8,211	3 9,070,093 79,473	2	3	4	12	L
Water	48	2037	CENTRE STREET	River St	Elgin St	150	113.01	PVC	1975	75	36	75	36	39	18,437	9,341	9,096	88,040	2	3	4	12	L
Water	49	2038	CENTRE STREET	Elgin St	Walnut	150	107.02	PVC	1975	75	36	75	36	39 39	17,460	8,846	8,614	83,374	2	3	4	12	L
Water Water	50 51	2039 2040	CENTRE STREET CENTRE STREET	Walnut Henry	Henry St Lovell St	150 150	136.00 103.01	PVC PVC	1975 1975	75 75	36 36	75 75	36 36	39	22,188 16,806	11,242 8,515	10,946 8,291	105,951 80,251	2	3	4 4	12 12	L
Water	52	2041	CENTRE STREET	Lovell St	Hwy 79	150	159.99	PVC	1975	75	36	75	36	39	26,103	13,226	12,877	124,646	2	3	4	12	L
Water	2	2033	CHURCH STREET	Railroad Line	Centre St	150	139.29	PVC	1975	75	36	75	36	39	22,726	11,515	11,211	108,520	2	3	4	12	L
Water Water	1	2034 3015	CHURCH STREET CHURCH STREET	Centre St Water Treatment Plant	Sydenham Railroad Line	150 150	81.00 96.50	PVC PVC	1975 1975	75 75	36 36	75	36 36	39 39	13,215 15,744	6,696 7,977	6,519 7,767	63,104 75,180	2	3	4	12 12	
Water	15	2014	ELGIN STREET	Railroad Line	Centre St	150	150.01	PVC	1975	75	36	75	36	39	24,475	12,401	12,074	116,872	2	3	4	12	L
Water	16	2015	ELGIN STREET	Centre St	Lorne St	150	163.99	PVC	1975	75	36	75	36	39	26,755	13,556	13,199	127,760	2	3	4	12	L
Water Water	17 60	2016 2017	ELGIN STREET	Lorne Wallace St	Wallace St Dead End	150 50	153.03 30.00	PVC PVC	1975 1995	75 75	36 56	75 75	36 56	39 19	24,967 6,595	12,650 1,583	12,317 5,012	119,222 12,622	2 4	3	4 2	12 2	
Water	61	2017	ELGIN STREET	Wallace St	Dead End	150	195.01	PVC	1975	75	36	75	36	39	31,817	16,121	15,696	151,931	2	3	4	12	L
Water	18	2017	ELGIN STREET	Wallace St	Dead End	150	207.50	PVC	1975	75	36	75	36	39	33,854	17,153	16,701	161,658	2	3	4	12	L
Water Water	34 33	2023 2024	ELM STREET ELM STREET	Dead End Centre St	Centre St Railroad Line	150 150	79.00 146.02	PVC PVC	1975 1975	75 75	36 36	75 75	36 36	39 39	12,889 23,824	6,530 12,071	6,359 11,753	61,547 113,764	2	3	4	12 12	
Water	37	2024	FRANCIS STREET	River St	Broadway St	150	227.15	PVC	1975	75	36	75	36	39	37,060	18,777	18,283	176,968	2	3	4	12	L
Water	38	2055	FRANCIS STREET	Broadway	Dead End	150	109.00	PVC	1975	75	36	75	36	39	17,783	9,010	8,773	84,917	2	3	4	12	L
Water Water	25 24	2019 2020	HENRY STREET HENRY STREET	Lorne Centre St	Centre St Railroad Line	200 200	161.99 150.00	PVC PVC	1975 1975	75 75	36 36	75 75	36 36	39 39	28,462 26,355	14,421 13,353	14,041 13,002	135,911 125,849	2	3	6 6	18 18	M
Water	24	3016	HWY 79	South of Millpond	Millpond	150	204.00	PVC	1975	75	36	75	36	39	33,283	16,863	16,420	158,932	2	3	4	12	L
Water	29	3017	HWY 79	Millpond	Railroad Line	150	196.00	PVC	1975	75	36	75	36	39	31,977	16,202	15,775	152,695	2	3	4	12	L
Water	30	3018	HWY 79	Railroad Line	Centre St	150	146.00	PVC	1975	75	36	75	36	39	23,820	12,069	11,751	113,744	2	3	4	12	L L
Water Water	31 32	3019 3020	HWY 79 HWY 79	Centre St Lorne	Lorne Shiloh	150 150	164.00 65.00	PVC PVC	1975 1975	75 75	36 36	75 75	36 36	39 39	26,757 10,605	13,557 5,373	13,200 5,232	127,769 50,641	2	3	4	12 12	
Water	35	2056	LISGAR STREET	River St	Broadway St	100	63.00	PVC	2013	75	74	75	74	1	9,646	4,887	4,759	9,773	5	1	4	4	L
Water	36	2056	LISGAR STREET	River St	Broadway St	150	226.00	PVC	1975	75	36	75	36	39	36,872	18,682	18,190	176,070	2	3	4	12	L
Water Water	58 56	2044 2045	LORNE STREET	Hwy 79 Lovell St	Lovell St Henry	150 150	159.00 64.60	PVC PVC	1975 1975	75 75	36 36	75 75	36 36	39 39	25,942 10,539	13,144 5,340	12,798 5,199	123,877 50,325	2	3	4	12 12	L
Water	57	2045	LORNE STREET	Lovell St	Henry	200	30.50	PVC	1975	75	36	75	36	39	5,359	2,715	2,644	25,590	2	3	6	18	M
Water	55	2046	LORNE STREET	Henry	Walnut	150	138.02	PVC	1975	75	36	75	36	39	22,517	11,409	11,108	107,522	2	3	4	12	L
Water Water	54 53	2047 2048	LORNE STREET	Walnut Elgin St	Elgin St River St	150 150	105.01 115.00	PVC PVC	1975 1975	75 75	36 36	75	36 36	39 39	17,132 18,762	8,680 9,506	8,452 9,256	81,808 89,592	2	3	4	12 12	
Water	46	2025	RAILROAD LINE	West Town Limits	Elm St	150	194.00	PVC	1975	75	36	75	36	39	31,651	16,037	15,614	151,139	2	3	4	12	L L
Water	45	2026	RAILROAD LINE	Elm St	Hwy 79	150	117.01	PVC	1975	75	36	75	36	39	19,089	9,672	9,417	91,153	2	3	4	12	L
Water Water	44 43	2027 2028	RAILROAD LINE RAILROAD LINE	Hwy 79 Lovell St	Lovell St Henry	150 150	160.01 110.00	PVC PVC	1975 1975	75 75	36 36	75 75	36 36	39 39	26,105 17,947	13,227 9,093	12,878 8,854	124,656 85,700	2	3	4	12 12	
Water	43	2020	RAILROAD LINE	Henry	Walnut	200	136.01	PVC	1975	75	36	75	36	39	23,896	12,107	11,789	114,107	2	3	6	12	M
Water	41	2030	RAILROAD LINE	Walnut	Elgin St	200	108.01	PVC	1975	75	36	75	36	39	18,977	9,615	9,362	90,618	2	3	6	18	M
Water Water	40 39	2031 2032	RAILROAD LINE RAILROAD LINE	Elgin St River St	River St Church St	200 150	113.00 100.01	PVC PVC	1975 1975	75 75	36 36	75 75	36 36	39 39	19,854 16,317	10,059 8,267	9,795 8,050	94,806 77,916	2	3	6 4	18 12	M
Water	5	2032	RIVER STREET	Courtright Line	Lisgar St	150	70.00	PVC	2013	75	74	75	74	1	132,458	1,766	130,692	134,200	5	1	4 4	4	L
Water	4	2000	RIVER STREET	Courtright Line	Lisgar St	200	307.80	PVC	1975	75	36	75	36	39	54,080	27,401	26,679	258,241	2	3	6	18	M
Water	6	2001	RIVER STREET	Lisgar	Francis Mill Dood	150	121.71	PVC	2013	75	74	75	74	1	230,300	3,071	227,229	233,328	5	1	4	4	L L
Water Water	7 8	2002 2003	RIVER STREET RIVER STREET	Francis Mill Pond	Mill Pond Railroad Line	150 150	101.12 47.50	PVC PVC	2013 2013	75 75	74 74	75 75	74 74	1	191,348 89,882	2,551 1,198	188,796 88,684	193,864 91,064	5 5	1	4	4	L
Water	9	2003	RIVER STREET	Mill Pond	Railroad Line	200	143.60	PVC	1975	75	36	75	36	39	25,231	12,784	12,447	120,482	2	3	6	18	M
Water	13	2006	RIVER STREET	Sydenham	Lorne St	150	77.99	PVC	1975	75	36	75	36	39	12,724	6,447	6,277	60,759	2	3	4	12	L
Water Water	12 63	2006 2006	RIVER STREET RIVER STREET	Sydenham Sydenham	Lorne St Lorne St	150 150	77.99 77.99	PVC PVC	1975 1975	75 75	36 36	75 75	36 36	39 39	12,724 12,724	6,447 6,447	6,277 6,277	60,759 60,759	2	3	4	12 12	
Water	65	2006.1	RIVER STREET	Lorne	Wallace St	150	151.02	PVC	1975	75	36	75	36	39	24,638	12,483	12,155	117,651	2	3	4	12	L
Water	14	2007	RIVER STREET	Wallace St	Shiloh	150	323.00	PVC	1975	75	36	75	36	39	52,697	26,700	25,997	251,637	2	3	4	12	L
Water Water	62 47	2036 2036	SYDENHAM STREET SYDENHAM STREET	Church Church	River St River St	150 150	101.41 101.41	PVC PVC	1975 1975	75 75	36 36	75 75	36 36	39 39	16,544 16,544	8,382 8,382	8,162 8,162	79,000 79,000	2	3	4	12 12	L
Water	22	2010	WALNUT STREET	The Arena	Wallace St	150	207.50	PVC	1975	75	36	75	36	39	33,854	17,153	16,701	161,658	2	3	4	12	
Water	21	2011	WALNUT STREET	Wallace St	Lorne St	150	155.01	PVC	1975	75	36	75	36	39	25,289	12,813	12,476	120,759	2	3	4	12	L
Water Water	20 19	2012 2013	WALNUT STREET WALNUT STREET	Lorne Centre St	Centre St Railroad Line	150 150	163.01 151.00	PVC PVC	1975 1975	75 75	36 36	75 75	36 36	39 39	26,594 24,635	13,474 12,482	13,120 12,153	126,991 117,636	2	3	4	12 12	L
Water	15	LAWSS LINE	SOURCE	CHURCHILL LINE	ALVINSTON	250	101.00	PVC	2003	75	64	75	64	11	1,772,036	236,271	1,535,764	2,632,006	4	1	6	6	L
Water	59	2025	RAILROAD LINE	West Town Limits	Elm St	150	420.00	PVC	2006	75	67	75	67	8	46,734	4,985	41,749	57,969	4	1	4	4	L
Water Water			Co-op Main BROOKE LINE			250 150	475.00	PVC PVC	1983 2009	75 75	44 70	75 75	44 70	31 5	73,750	4,917	68,833	398,524 79,740	3 5	2	6 4	12 4	L
Water			MILL POND LOOP			150		PVC	2009	75	70	75	70	1	52,331	698	51,633	53,019	5	1	4 4	4	L
Water			SILOH/RIVER			150		PVC	2013	75	74	75	74	1	84,539	1,127	83,412	85,650	5	1	4	4	L

WASTEWATER CAPITAL ASSETS

LAND IMPROVEMENTS

		Asset Descriptio	n					Asset Age an	d Useful Life				Financial Inform	nation						
Department	Asset ID	Asset Description	Location	Enter Financial Stmt Category	Financial Statements Category	In Service Date	Useful Life	Remaining Useful Life	AM Useful Life	AM Remaining Useful Life	Age	Historical Cost Dec. 31, 2013	Accumulated Amortization Dec. 31, 2013	Net Book Value Dec. 31, 2013		Condition Rating (Based on Age)	Probability of Failure	Consequence of Failure	Numerical Risk of Failure	Risk of Failure
																	5	5	25	
												397,355	28,229	369,126	429,630					
Wastewater		ENTRANCE CHANGE	ALVINSTON PS SOUTH	2210	LAND IMPROVEMENTS	2009	20	15	20	15	5	985	246	739	1,065	4	1	2	2	L
Wastewater		SLUDGE STORAGE	WWTP ALVINSTON	2210	LAND IMPROVEMENTS	2009	75	70	75	70	5	387,873	25,858	362,015	419,378	5	1	4	4	L
Wastewater		FENCING		2210	LAND IMPROVEMENTS	2009	20	15	20	15	5	8,497	2,124	6,373	9,187	4	1	2	2	L

FACILITIES

		Asset Description	on					Asset Age an	d Useful Life				Financial Infor		_					
Department	Asset ID	Asset Description	Location	Enter Financial Stmt Category	Financial Statements Category	In Service Date	Useful Life	Remaining Useful Life	AM Useful Life	AM Remaining Useful Life	Age	Historical Cost Dec. 31, 2013	Accumulated Amortization Dec. 31, 2013	Net Book Value Dec. 31, 2013	Replacement Cost (2014\$) Inflated	Condition Rating (Based on Age)	Probability of Failure	Consequence of Failure	Numerical Risk of Failure	Risk of Failure
																	5	5	25	
												1,039,741	443,623	596,118	3,126,884					
Wastewater	1-0000-0810-0004	WWTP	ALVINSTON	2220	BUILDINGS	1982	75	43	75	43	32	1,039,741	443,623	596,118	3,126,884	3	2	4	8	М
		Super Structure				1982	75	43	75	43	32				1,563,442	3	2	2	4	L
		Mechanical				1982	25	0	25	0	32				625,377	0	5	2	10	M
		Electrical				1982	20	0	20	0	32				312,688	0	5	0	0	L
		Instrumentation/HVAC				1982	20	0	20	0	32				312,688	0	5	3	15	Н
		Pipes, Intake/Output pipes				1982	50	18	50	18	32				312,688	2	3	3	9	M

MACHINERY AND EQUIPMENT

		Asset Description	on					Asset Age an	d Useful Life				Financial Inform	nation						
Department	Asset ID	Asset Description	Location	Enter Financial Stmt Category	Financial Statements Category	In Service Date	Useful Life	Remaining Useful Life	AM Useful Life	AM Remaining Useful Life	Age	Historical Cost Dec. 31, 2013	Accumulated Amortization Dec. 31, 2013	Net Book Value Dec. 31, 2013	Renlacement	Condition Rating (Based on Age)	Probability of Failure	Consequence of Failure	Numerical Risk of Failure	Risk of Failure
																	5	5	25	
												1,342,869	628,238	714,631	1,844,506					
Wastewater	I-2230-0810-0001	NEW BLOWER	WWTP ALVINSTON	2230	MACHINERY & EQUIPMENT	2006	5	0	10	2	8	6,237	6,237	-	7,287	1	4	4	16	н
Wastewater	I-2230-0810-0001	INSTALLATION OF NEW BLOWER	WWTP ALVINSTON	2230	MACHINERY & EQUIPMENT	2006	5	0	5	0	8	3,764	3,764	-	4,398	0	5		0	L
Wastewater	I-2230-0810-0002	CHLORINATION UPGRADE	WWTP ALVINSTON	2230	MACHINERY & EQUIPMENT	2005	10	1	10	1	9	33,170	29,853	3,317	39,380	1	4	2	8	М
Wastewater	01-0000-0810-0005	PUMPING STATION RIVER SOUTH	ALVINSTON	2230	MACHINERY & EQUIPMENT	1982	15	0	50	18	32	126,711	126,711	-	303,525	2	3	4	12	M
Wastewater	01-0000-0810-0006	PUMPING STATION RIVER NORTH	ALVINSTON	2230	MACHINERY & EQUIPMENT	1982	15	0	50	18	32	139,977	139,977	-	335,303	2	3	4	12	M
Wastewater	01-0000-0811-0001	PUMPING STATION HOLMES ST	INWOOD	2230	MACHINERY & EQUIPMENT	2009	15	10	50	45	5	406,933	135,644	271,289	454,937	5	1	4	4	L
Wastewater	01-0000-0810-0007	PS RIVER NORTH UPGRADES	ALVINSTON	2230	MACHINERY & EQUIPMENT	2009	15	10	15	10	5	210,787	70,262	140,525	235,653	3	2	2	4	L
Wastewater		UPGRADES, PUMPS, CONTROL PANEL, ELECTRICAL	ALVINSTON PS SOUTH	2230	MACHINERY & EQUIPMENT	2009	15	10	15	10	5	79,936	26,645	53,290	89,365	3	2	2	4	L
Wastewater		CLARIFIER REBUILD	WWTP ALVINSTON	2230	MACHINERY & EQUIPMENT	2009	25	20	25	20	5	201,554	40,311	161,243	225,331	4	1	2	2	L
Wastewater				2230	MACHINERY & EQUIPMENT	2009	15	10	15	10	5	120,921	40,307	80,614	135,186	3	2	2	4	L
Wastewater		EQUIP (HEATER, RECORDER)	WWTP ALVINSTON	2230	MACHINERY & EQUIPMENT	2009	5	0	5	0	5	5,624	5,624	-	6,287	0	5	2	10	M
Wastewater		ANNUNCIATOR PANEL	WWTP ALVINSTON	2230	MACHINERY & EQUIPMENT	2010	10	6	10	6	4	7,256	2,902	4,353	7,854	3	2	2	4	L

				Asset	Description							Asset Age an	d Useful Life				Financial Infor	mation				с	onsequence of Failu	re		
Department	Туре	ID Number	Road Reference ID	Street	From	То	Diameter (mm)	Length (m)	Pipe Material	In Service Date	Useful Life	Remaining Useful Life	AM Useful Life	AM Remaining Useful Life	Age	Historical Cost Dec. 31, 2013	Accumulated Amortization Dec. 31, 2013	Net Book Value Dec. 31, 2013	Replacement Cost (2014\$) Inflated	Condition Rating (Based on Age)	Total Probability of Failure	Pipe Size	Gravity vs. Force Main	Total Consequence of Failure	Numerical Risk of Failure	Risk of Failure
																\$ 3,736,141	\$ 912,080	\$ 2,824,061	\$ 7,709,337		5	5	5	10	50	
WW Alvinston	Forcemains	2	2000	River Street	Treatment Facility	y Lisgar St	200	1,244.72	PVC	1982	75	43	75	43	32	88,686	36,657	52,029	266,711	3	2	5	4	9	18	М
WW Alvinston	Forcemains	4	2001	River Street	Lisgar	Francis	200	121.71	PVC	1982	75	43	75	43	32	8,672	3,584	5,088	26,080	3	2	5	4	9	18	М
WW Alvinston WW Alvinston	Forcemains Forcemains	6	2002 2003	River Street River Street	Francis Mill Pond	Mill Pond Railroad Line P S	200 200	101.12 930.00		1982 1982	75 75	43	75 75	43 43	32 32	7,205	2,978 27,389	4,227 38,874	21,668 199,277	3	2	5	4	9	18 18	M
WW Alvinston	Forcemains	15	2006	River Street	Sydenham	Lorne St	200	74.00	PVC	1982	75	43	75	43	32	5,273	2,180	3,093	15,858	3	2	5	4	9	18	M
WW Alvinston	Forcemains	16 17	2006.1	River Street	Lorne St	Wallace St	200 200	139.00		1982 1982	75	43	75 75	43	32 32	9,904 27,467	4,094	5,810	29,785	3	2	5	4 4	9	18 18	M
WW Alvinston WW Alvinston	Forcemains Forcemains	17	2007 SCHOOL	River Street Hwy 79	Wallace St Brooke Line	Pumping Station Lorne St	150	385.50 67.00	PVC PVC	2007	75 75	43 68	75	43 68	7	119,448	11,353 11,148	16,114 108,299	82,603 138,806	5	1	5	4 4	9	9	
WW Alvinston	Forcemains	42	3023	River Street	River St	Pumping Station	200	85.00		1982	75	43	75	43	32	6,056	2,503	3,553	18,213	3	2	5	4	9	18	М
WW Inwood WW Inwood	Forcemains Forcemains	94 95	3005 3033	Mcnally Street Inwood Road	Queen St Park St	Inwood Rd Atkinson	150 150	122.02 194.00		2009 2009	75 75	70	75 75	70 70	5	4,656	310 494	4,346 6.910	5,035 8.005	5	1	5	4	9	9	L
WW Inwood	Forcemains	96	3034	Inwood Road	Atkinson	James	150	860.00		2009	75	70	75	70	5	32,820	2,188	30,632	35,486	5	1	5	4	9	9	L
WW Inwood	Forcemains	97	3035	Inwood Road	James	Holmes St	150	20.00	PE	2009	75	70	75	70	5	763	51	712	825	5	1	5	4	9	9	L
WW Inwood WW Inwood	Forcemains Forcemains	98 99	1098 1097	Shiloh Line Shiloh Line	Sutorville Little Ireland	Inwood Rd Sutorville	150 150	1,843.00 1,715.75	PE	2009 2009	75 75	70	75 75	70 70	5	70,334	4,689	65,645 61,112	76,047 70,796	5	1	5	4	9	9	L
WW Inwood	Forcemains	100	1096	Shiloh Line	Ebenezer Rd	Little Ireland	150	1,842.00	PE	2009	75	70	75	70	5	70,295	4,686	65,609	76,005	5	1	5	4	9	9	L
WW Inwood WW Inwood	Forcemains Forcemains	101	1095 1094	Shiloh Line Shiloh Line	Old Walnut	Ebenezer Rd Old Walnut	150 150	1,845.01	PE	2009 2009	75	70	75	70	5	70,410	4,694	65,716 65,682	76,129 76,089	5	1	5	4 4	9	9	L
WW Inwood	Forcemains	102	1094	Shiloh Line	Hwy 79 Peak of Mosa Rd	Hwy 79	150	616.70	PE	2009	75 75	70 70	75 75	70 70	5	70,373 23,535	4,692	21,966	25,446	5	1	5	4 4	9	9	L
WW Inwood	Forcemains	104	3000	Holmes Street	Inwood Rd	Weidman	150	130.00	PE	2009	75	70	75	70	5	4,961	331	4,630	5,364	5	1	5	4	9	9	L
WW Inwood WW Alvinston	Forcemains Gravity Mains	105	1089 2000	River Street River Street	Shiloh Line Courtright Line	Pump Station Lisgar St	150 200	513.00 379.00	PE PVC	2009 1982	75 75	70 43	75 75	70 43	5 32	19,577 77.040	1,305	18,272 45,197	21,168 231,689	5	1 2	5	4	9	9 14	L
WW Alvinston	Gravity Mains	3	2000	River Street	Lisgar	Francis	200	121.71		1982	75	43	75	43	32	24,740	10,226	14,514	74,401	3	2	5	2	7	14	M
WW Alvinston	Gravity Mains	5	2002	River Street	Francis	Mill Pond	200	101.12	PVC	1982	75	43	75	43	32	20,555	8,496	12,059	61,817	3	2	5	2	7	14	M
WW Alvinston WW Alvinston	Gravity Mains Gravity Mains	7	2003 2004	River Street River Street	Mill Pond Railroad Line	Railroad Line Centre St	200 200	104.00 150.02	-	1982 1982	75 75	43 43	75 75	43 43	32 32	21,140 30,495	8,738	12,402 17,890	63,577 91,708	3	2	5	2	7	14 14	M
WW Alvinston	Gravity Mains	11	2005	River Street	Centre St	Sydenham	200	88.03	PVC	1982	75	43	75	43	32	17,894	7,396	10,498	53,815	3	2	5	2	7	14	M
WW Alvinston	Gravity Mains	16	2007	River Street	Wallace St	Shiloh	200	379.00		1982	75	43	75	43	32	77,040	31,843	45,197	231,689	3	2	5	2	7	14	M
WW Alvinston WW Alvinston	Gravity Mains Gravity Mains	18 19	2034 2033	Church Street Church Street	Centre St Railroad Line	Sydenham Centre St	200 200	39.00 139.29	PVC PVC	1982 1982	75 75	43 43	75 75	43 43	32 32	7,928 28,315	3,277	4,651 16.611	23,841 85,152	3	2	5	2	7	14 14	M
WW Alvinston	Gravity Mains	20	2014	Elgin Street	Railroad Line	Centre St	200	150.01	PVC	1982	75	43	75	43	32	30,494	12,604	17,890	91,705	3	2	5	2	7	14	М
WW Alvinston WW Alvinston	Gravity Mains Gravity Mains	23 24	2015 2016	Elgin Street Elgin Street	Centre St Lorne	Lorne St Wallace St	200 200	163.99 153.03	PVC PVC	1982 1982	75 75	43 43	75 75	43 43	32 32	33,335 31,107	13,779 12,857	19,557 18,249	100,251 93,549	3	2	5	2	7	14 14	M
WW Alvinston	Gravity Mains	24	2016	Elgin Street	Wallace St	Dead End	200	153.03		1982	75	43	75	43	32	37,199	12,857	21,823	93,549	3	2	5	2	7	14	M
WW Alvinston	Gravity Mains	26	2013	Walnut Street	Centre St	Railroad Line	200	151.00		1982	75	43	75	43	32	30,693	12,687	18,007	92,306	3	2	5	2	7	14	М
WW Alvinston WW Alvinston	Gravity Mains Gravity Mains	27 28	2012 2011	Walnut Street Walnut Street	Lorne Wallace St	Centre St Lorne St	200 200	163.01 155.01	PVC PVC	1982 1982	75 75	43 43	75 75	43 43	32 32	33,135 31,508	13,696 13,023	19,439 18,485	99,648 94,757	3	2	5	2	7	14 14	M
WW Alvinston	Gravity Mains	29	2010	Walnut Street	The Arena	Wallace St	200	161.50	PVC	1982	75	43	75	43	32	32,829	13,569	19,259	98,727	3	2	5	2	7	14	M
WW Alvinston	Gravity Mains	30	2018	Morrell Street	Hwy 79	Lorne St	200	312.50		1982	75	43	75	43	32	63,523	26,256	37,267	191,036	3	2	5	2	7	14	M
WW Alvinston WW Alvinston	Gravity Mains Gravity Mains	31 32	2020 2019	Henry Street Henry Street	Centre St Lorne	Railroad Line Centre St	200 250	150.00 113.00	PVC PVC	1982 1982	75 75	43 43	75 75	43 43	32 32	30,491 22,970	12,603 9,494	17,888 13,476	91,696 69,079	3	2	5	2	7 7	14 14	M
WW Alvinston	Gravity Mains	33	2021	Lovell Street	Railroad Line	Centre St	200	148.03		1982	75	43	75	43	32	30,090	12,437	17,653	90,492	3	2	5	2	7	14	М
WW Alvinston WW Alvinston	Gravity Mains Gravity Mains	34 35	2022 3016	Lovell Street Hwy 79	Centre St South of Millpond	Lorne St Millpond	200 200	162.99 213.00	PVC PVC	1982 1982	75 75	43 43	75 75	43 43	32 32	33,131 43,297	13,694 17,896	19,437 25,401	99,638 130,210	3	2	5	2	7	14 14	M
WW Alvinston	Gravity Mains	36	3017	Hwy 79	Millpond	Railroad Line	200	194.00		1982	75	43	75	43	32	39,435	16,300	23,135	118,595	3	2	5	2	7	14	M
WW Alvinston	Gravity Mains	37	3018	Hwy 79	Railroad Line	Centre St	200	102.50		1982	75	43	75	43	32	20,835	8,612	12,223	62,660	3	2	5	2	7	14	M
WW Alvinston WW Alvinston	Gravity Mains Gravity Mains	38	3019 3020	Hwy 79 Hwy 79	Centre St Lorne	Lorne Shiloh	200 200	164.50 57.50	-	1982 1982	75 75	43 43	75 75	43 43	32 32	33,438 11,688	13,821 4,831	19,617 6,857	100,561 35,151	3	2	5	2	7	14 14	M
WW Alvinston	Gravity Mains	40	2024	Elm Street	Centre St	Railroad Line	200	146.02	PVC	1982	75	43	75	43	32	29,682	12,269	17,414	89,266	3	2	5	2	7	14	М
WW Alvinston			2023	Elm Street	Dead End	Centre St	200	87.50		1982	75	43	75	43	32	17,786	7,352	10,435	53,490	3	2	5	2	7	14	M
WW Alvinston WW Alvinston	Gravity Mains Gravity Mains		3021 3021	Open Ditch Open Ditch	River St River St	Hwy 79 Hwy 79	380 300	247.00 378.50		1982 1982	75 75	43 43	75 75	43 43	32 32	50,208 76,939	20,753 31,801	29,456 45,137	150,995 231,383	3	2	5	2	7	14 14	M
WW Alvinston	Gravity Mains	45	3022	Open Ditch	Open Ditch	Pumping Station	380	47.50	PVC	1982	75	43	75	43	32	9,655	3,991	5,665	29,037	3	2	5	2	7	14	М
WW Alvinston WW Alvinston			2057 2058	Broadway Street Broadway Street	Dead End Lisgar	Lisgar St Francis	200 200	302.00 111.99		1982 1982	75 75	43 43	75 75	43 43	32 32	61,388 22,765	25,374 9,409	36,014 13,355	184,617 68,461	3	2	5 5	2	7 7	14 14	M
WW Alvinston	Gravity Mains	48	2059	Broadway Street	Francis	Mill Pond	200	111.00	PVC	1982	75	43	75	43	32	22,564	9,326	13,237	67,857	3	2	5	2	7	14	М
	Gravity Mains Gravity Mains		3024 2056	Broadway Street Lisgar Street	Mill Pond River St	Open Ditch Broadway St	200 200	74.00 295.23		1982 1982	75 75	43 43	75 75	43 43	32 32	15,042 60,012	6,217 24,805	8,825 35,207	45,237 180,478	3	2	5	2 2	7	14 14	M
	Gravity Mains Gravity Mains		2056	Francis Street	River St River St	Broadway St Broadway St	200	295.23		1982	75	43	75	43	32	46,174	24,805	27,089	138,862	3	2	5	2	7	14	M
WW Alvinston	Gravity Mains	52	2055	Francis Street	Broadway	Dead End	200	98.00	PVC	1982	75	43	75	43	32	19,921	8,234	11,687	59,909	3	2	5	2	7	14	М
	Gravity Mains Gravity Mains		2032 2031	Railroad Line Railroad Line	River St Elgin St	Church St River St	200 200	100.01 67.00		1982 1982	75 75	43 43	75 75	43 43	32 32	20,329 13,619	8,403 5,629	11,927 7,990	61,138 40,958	3	2	5	2	7 7	14 14	M
	Gravity Mains		2031	Railroad Line	Elgin St	River St	250	52.00		1982	75	43	75	43	32	10,570	4,369	6,201	31,788	3	2	5	2	7	14	M
WW Alvinston			3025	Railroad Line	Railroad Line	Pumping Station	250	82.50		1982	75	43	75	43	32	16,770	6,932		50,434	3	2	5	2	7	14	M
	Gravity Mains Gravity Mains		2030 2029	Railroad Line Railroad Line	Walnut Henry	Elgin St Walnut	250 200	108.01 114.50		1982 1982	75 75	43 43	75 75	43 43	32 32	21,955 23,275	9,075 9,620	12,880 13,655	66,026 69,996	3	2	5 5	2	7 7	14 14	M
WW Alvinston	Gravity Mains	59	2028	Railroad Line	Lovell St	Henry	200	110.00	PVC	1982	75	43	75	43	32	22,360	9,242	13,118	67,245	3	2	5	2	7	14	М
	Gravity Mains		2027 2026	Railroad Line Railroad Line	Hwy 79 Elm St	Lovell St	200 200	160.01 117.01		1982	75 75	43	75 75	43	32 32	32,525 23,784	13,444 9,831	19,082 13,953	97,816 71,527	3	2	5	2	7	14	M
	Gravity Mains Gravity Mains		2026	Railroad Line Railroad Line	West Town Limits	Hwy 79 s Elm St	200	117.01		1982 1982	75 75	43 43	75	43 43	32	23,784 27,848	9,831	13,953	71,527 83,750	3	2	5	2	7	14 14	M
WW Alvinston	Gravity Mains	63	2036	Sydenham Street	Church	River St	200	54.50	PVC	1982	75	43	75	43	32	11,078	4,579	6,499	33,317	3	2	5	2	7	14	М
WW Alvinston WW Alvinston	Gravity Mains Gravity Mains		2037 2038	Centre Street Centre Street	River St Elgin St	Elgin St Walnut	200 200	61.00 73.50		1982 1982	75 75	43 43	75 75	43 43	32 32	12,400 14,941	5,125 6,175	7,274 8,765	37,290 44,932	3	2	5	2	7	14 14	M
	Gravity Mains Gravity Mains		2038	Centre Street	Walnut	Henry St	200	73.50		1982	75	43	75	43	32	14,941	6,469	9,183	44,932 47,071	3	2	5	2	7	14	M
	Gravity Mains		2040	Centre Street	Henry	Lovell St	200	71.00		1982	75	43	75	43	32	14,432	5,965		43,403	3	2	5	2	7	14	M
	Gravity Mains Gravity Mains		2041 2048	Centre Street Lorne Street	Lovell St Elgin St	Hwy 79 River St	200 200	94.50 55.50		1982 1982	75 75	43	75 75	43 43	32 32	19,209 11,282	7,940	11,269 6,619	57,769 33,928	3	2	5	2	7	14 14	M
WW Alvinston	1		2040	Lorne Street	Walnut	Elgin St	200	41.50		1982	75	43	75	43	32	8,436	3,487		25,370	3	2	5	2	7	14	M

				Asset	t Description							Asset Age an	d Useful Life				Financial Inform	mation				c	onsequence of Fail	ure		
Department	Туре	ID Number	Road Reference ID	Street	From	То	Diameter (mm)	Length (m)	Pipe Material	In Service Date	Useful Life	Remaining Useful Life	AM Useful Life	AM Remaining Useful Life	Age	Historical Cost Dec. 31, 2013	Accumulated Amortization Dec. 31, 2013	Net Book Value Dec. 31, 2013		Condition Rating (Based on Age)	Total Probability of Failure	Pipe Size	Gravity vs. Force Main	Total Consequence of Failure	Numerical Risk of Failure	Risk of Failure
WW Alvinston	Gravity Mains	72	2046	Lorne Street	Henry	Walnut	200	70.00	PVC	1982	75	43	75	43	32	14,229	5,881	8,348	42,792	3	2	5	2	7	14	м
WW Alvinston	Gravity Mains	73	2025	Railroad Line	West Town Limits	s Elm St	200	49.00	PVC	1994	75	55	75	55	20	21,997	5,573	16,424	43,408	4	1	5	2	7	7	L
WW Alvinston	Gravity Mains	74	2017	Elgin Street	Wallace St	Dead End	200	47.00	PVC	1995	75	56	75	56	19	21,554	5,173	16,381	41,250	4	1	5	2	7	7	L
WW Inwood	Gravity Mains	75	3033	Inwood Road	Park St	Atkinson	200	194.00	PVC	2009	75	70	75	70	5	59,800	3,987	55,813	64,657	5	1	5	2	7	7	L
WW Inwood	Gravity Mains	76	3034	Inwood Road	Atkinson	James	200	860.00	PVC	2009	75	70	75	70	5	265,093	17,673	247,420	286,625	5	1	5	2	7	7	L
WW Inwood	Gravity Mains	77	3035	Inwood Road	James	Holmes St	200	20.00	PVC	2009	75	70	75	70	5	6,165	411	5,754	6,666	5	1	5	2	7	7	L
WW Inwood	Gravity Mains	78	3036	Inwood Road	Holmes St	Moore St	200	430.00	PVC	2009	75	70	75	70	5	132,547	8,836	123,710	143,313	5	1	5	2	7	7	L
WW Inwood	Gravity Mains	79	3037	Inwood Road	Moore St	McNally St	200	258.00	PVC	2009	75	70	75	70	5	79,528	5,302	74,226	85,988	5	1	5	2	7	7	L
WW Inwood	Gravity Mains	80	3008	Park Street	James	Atkinson	200	95.02	PVC	2009	75	70	75	70	5	29,289	1,953	27,336	31,668	5	1	5	2	7	7	L
WW Inwood	Gravity Mains	81	3006	James Street	Inwood Rd	Park St	200	129.00	PVC	2009	75	70	75	70	5	39,765	2,651	37,114	42,995	5	1	5	2	7	7	L
WW Inwood	Gravity Mains	82	3001	Moore Street	Inwood Rd	Queen St	200	121.00	PVC	2009	75	70	75	70	5	37,297	2,487	34,811	40,327	5	1	5	2	7	7	L
WW Inwood	Gravity Mains	83	3003	Queen Street	Moore St	McNally St	200	257.04	PVC	2009	75	70	75	70	5	79,231	5,282	73,949	85,666	5	1	5	2	7	7	L
WW Inwood	Gravity Mains	84	3038	Inwood Road	Shiloh	Park St	200	260.00	PVC	2009	75	70	75	70	5	80,144	5,343	74,801	86,654	5	1	5	2	7	7	L
WW Inwood	Gravity Mains	85	3039	Inwood Road	McNally St	Courtright Line	200	190.00	PVC	2009	75	70	75	70	5	58,567	3,904	54,663	63,324	5	1	5	2	7	7	L
WW Inwood	Gravity Mains	86	3009	Park Street	Atkinson	Inwood Rd	200	300.00	PVC	2009	75	70	75	70	5	92,474	6,165	86,309	99,986	5	1	5	2	7	7	L
WW Inwood	Gravity Mains	87	3010	Atkinson Street	Inwood Rd	Park St	200	110.00	PVC	2009	75	70	75	70	5	33,907	2,261	31,647	36,661	5	1	5	2	7	7	L
WW Inwood	Gravity Mains	88	1007	Weidman Line	Forest Rd	0.1 km west of Inwood Rd.	200	120.00	PVC	2009	75	70	75	70	5	36,990	2,466	34,524	39,994	5	1	5	2	7	7	L
WW Inwood	Gravity Mains	89	3000	Holmes Street	Inwood Rd	Weidman	200	107.08	PVC	2009	75	70	75	70	5	33,008	2,201	30,807	35,689	5	1	5	2	7	7	L
WW Inwood	Gravity Mains	90	3040	Holmes Street	Weidman	West Limits	200	23.00	PVC	2009	75	70	75	70	5	7,090	473	6,617	7,666	5	1	5	2	7	7	L
WW Inwood	Gravity Mains	91	3007	James Street	Park St	Dead End	200	467.00	PVC	2009	75	70	75	70	5	143,952	9,597	134,355	155,644	5	1	5	2	7	7	L
WW Inwood	Gravity Mains	93	3002	Moore Street	Queen St	Dead End	200	120.00	PVC	2009	75	70	75	70	5	36,990	2,466	34,524	39,994	5	1	5	2	7	7	L
																										1

APPENDIX B ASSET MANAGEMENT ASSUMPTIONS

APPENDIX B: ASSET MANAGEMENT PLAN ASSUMPTIONS

The following assumptions were made during the creation of the Municipality's asset management plan.

1. STATE OF LOCAL INFRASTRUCTURE

- a) All external reports and documentation containing data relating to capital assets including condition data, replacement cost, age, etc..., where available, have been utilized.
- b) For any applicable, water, wastewater or stormwater main assets, the value in the plan may exclude the cost of road reinstatement. It is recommended, where required, that staff for budgeting purposes, determine where the road reinstatement costs are to be funded.
- c) Indexing: When inflating an asset value to current replacement value, the Non-Residential Building Construction Price Index (NRBCPI) was used for Roads, Sidewalks, Water and Wastewater related assets. The Consumer Price Index (CPI) was used for Machinery and Equipment, Vehicles and Land Improvements.
- d) In order to establish an initial condition assessment for some assets, calculations were performed to link condition to asset age. This was done in order to establish condition ratings for this report and it is recommended that the Municipality follow the "Condition Assessment Guideline" shown in Appendix C in the future.

2. ASSET MANAGEMENT STRATEGY

- a) Capital inflation rate will be assumed to be 3% annually.
- b) Operating budget inflation rate will be assumed to be 2% annually.
- c) Regarding operating expenses included in the Municipality's current budget, it is assumed that they will increase at an operating inflation rate annually, unless staff have provided alternative impacts.
- d) When any existing debenture payments are complete (if applicable), annual budget savings created through removing these payments have been dedicated to capital.

3. FINANCING STRATEGY

- a) Taxation assessment growth is assumed to be 3.0% annually.
- b) Development charges rates are assumed to increase at 2% annually.
- c) Gas tax revenue has been identified as a funding source for the purposes of this analysis (i.e. for asset replacement purposes), and has been assumed to continue throughout the forecast period.
- d) Interest rate earned on a Capital Replacement Reserve Fund will be 2% annually.
- e) In the case where debt financing is needed, the model assumed debt terms of 20 years at 5% annual interest. For growth related debt, debt payments are shown as funded directly from the development charge reserve funds.

APPENDIX C DATA VERIFICATION AND CONDITION ASSESSMENT GUIDELINE

APPENDIX C: DATA VERIFICATION AND CONDITION ASSESSMENT GUIDELINE

Municipality of Brooke-Alvinston Data Verification and Condition Assessment Guideline

Data Verification

- 1. The main source of asset data updating and editing will be though the Municipality's PSAB 3150 compliance procedures.
- 2. Asset additions, disposals, betterments, and write-offs will be recorded based on the Municipality's PSAB 3150 Compliance Policies.
- 3. Verification of the correct treatment of asset revisions will be completed through frequent annual reviews by the Municipality's Treasurer as well as an annual review by the Municipality's external auditor.
- 4. During years in which condition assessments are not being performed, asset replacement cost will be determined based on a combination of inflating previous current values or thorough the use of the current year's historical invoice data. Where indices are being used, the Non-Residential Building Construction Price Index (NRBCPI) shall be used for construction related assets (i.e. roads related, storm, water, and facilities) and the Consumer Price Index (CPI) shall be used for all other assets (i.e. machinery & equipment, vehicles and land improvements).

Condition Assessment

- 1. Condition assessments shall be performed as outlined in Table C-1 below. Condition assessments shall be performed by qualified individuals (or companies) and shall include a review of the following:
 - Current asset condition (consistent with the rating format used within this report, unless Municipal staff stipulate a new format);
 - i. Identify any unusual wear from asset use that may hinder asset performance and eventually reduce useful life.
 - ii. Assess asset performance and identify (if any) capital improvements that can be applied to extend the asset's useful life and/or bring the asset back to proper service levels.
 - Current asset replacement cost. This is to be based on replacing the asset under current legislation/requirements using the Municipality's specifications; and
 - Remaining service life, assuming current maintenance and usage levels.

The condition assessment process will continue to be guided by provincial legislation and environmental regulations. The provisions provided above are not intended to replace other required processes.

C-1

Condition Assessment Time Table

Asset Type	Frequency of Condition Assessment
Roads Related	Every 5 years, based on Minimum Maintenance Standards
Bridges and Culverts (greater than 3m)	Every 2 years, based on applicable legislation
Facilities	Every 5-10 years, with priority given to older buildings
Vehicles, Machinery and Equipment	Annually (typically by Municipal staff), part of maintenance program
Water, Wastewater, Storm Related	Every 5 years or more frequently based on applicable legislation and environmental regulations

APPENDIX D LEVEL OF SERVICE IMPACT ANALYSIS

Municipality of Brooke-Alvinston 2014 Asset Management Plan Asset Management Strategy - Change in Level of Service

Figure D-1

									Tax Sup	orted Services	s												
												Phase	in of Impact	t (in Current Y	ear \$)								
Departments	Description	Planned Actions	Impact (2014\$)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	203
Expenditures																							
Operating Expenditures				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
General Government	Information Technology	Replacement	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000	
Public Works	Information Technology	Replacement	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	500	
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
tal Expenditures (Uninflate	ed)		2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	
		Total Operating Expenditure	es (Uninflated)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Total Capital Expenditures	(Uninflated)	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	
		Total Operating Expenditure	es (Inflated)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Total Capital Expenditures	(Inflated)	2,575	2,652	2,732	2,814	2,898	2,985	3,075	3,167	3,262	3,360	3,461	3,564	3,671	3,781	3,895	4,012	4,132	4,256	4,384	
		Discussed Actions 0											Impact ((Inflated)									
		Planned Actions S	oummary	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2022	20
				2015	2010	2017	2010	2019	2020	2021	2022	2023	2024	2025	2020	2021	2020	2023	2000	2031	2032	2033	20

Planned Actions Summary										Impact (Inflated)									
Flatified Actions Summary	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Maintenance	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rehabilitation/Renewal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Replacement	2,575	2,652	2,732	2,814	2,898	2,985	3,075	3,167	3,262	3,360	3,461	3,564	3,671	3,781	3,895	4,012	4,132	4,256	4,384	4,515
Expansion	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Grand Total (Inflated)	2,575	2,652	2,732	2,814	2,898	2,985	3,075	3,167	3,262	3,360	3,461	3,564	3,671	3,781	3,895	4,012	4,132	4,256	4,384	4,515

Municipality of Brooke-Alvinston 2014 Asset Management Plan Asset Management Strategy - Change in Level of Service

Figure D-2

									Environmen	tal Services -	Water												
												Pha	se-in of Impac	t (in Current Y	ear \$)						· · · · · · · · · · · · · · · · · · ·		
Departments	Description	Planned Actions	Impact (2014\$)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Vater Services																			1	· · · · · · · · · · · · · · · · · · ·			
Expenditures Operating Expenditures					_				_	_	_		_	_	_	_	_	_			1 _	_	
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- 1	-	-	
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	!		-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<u> </u>	-	-
Total Expenditures (Uninflated)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
																				1			T

Total Operating Expenditures (Uninflated) -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Capital Expenditures (Uninflated) -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Operating Expenditures (Inflated) -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Capital Expenditures (Inflated) -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Planned Actions Summary										Impact (I	nflated)									
Flatified Actions Summary	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Maintenance	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rehabilitation/Renewal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Replacement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Expansion	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Grand Total (Inflated)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Municipality of Brooke-Alvinston 2014 Asset Management Plan Asset Management Strategy - Change in Level of Service

Figure D-3

									Environmen	tal Services -	Water												
												Pha	se-in of Impact	(in Current Y	ear \$)								_
Departments	Description	Planned Actions	Impact (2014\$)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Vastewater Service Expenditures Operating Expenditures				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
otal Expenditures (Uninflated)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Total Operating Expenditures (Uninflated)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Total Capital Expenditures (Un	inflated)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Total Operating Expenditures (Inflated)	-	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Total Operating Expenditures (Uninflated)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Capital Expenditures (Uninflated)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Operating Expenditures (Inflated)	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Capital Expenditures (Inflated)	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Planned Actions Summary										Impact	(Inflated)									
Fianned Actions Summary	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Maintenance	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Rehabilitation/Renewal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Replacement	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Expansion	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Grand Total (Inflated)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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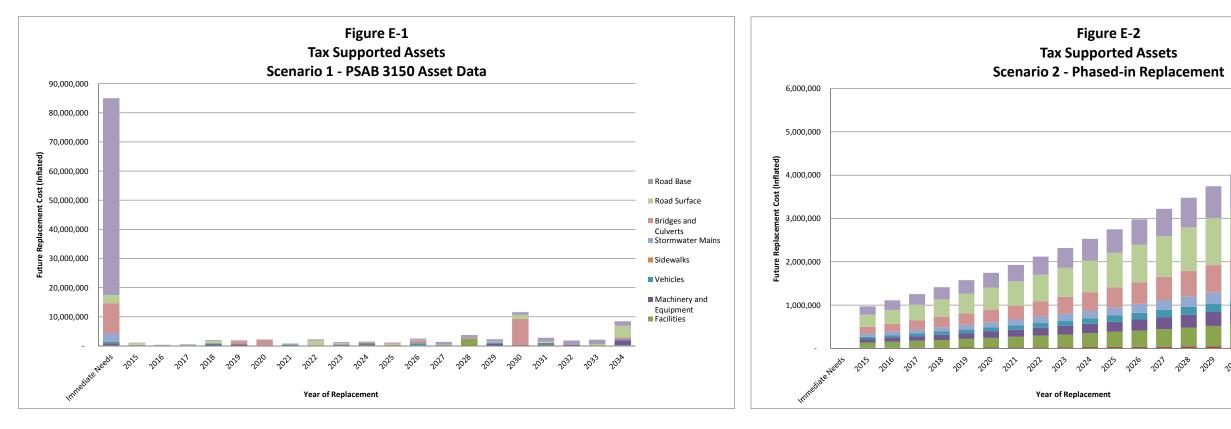
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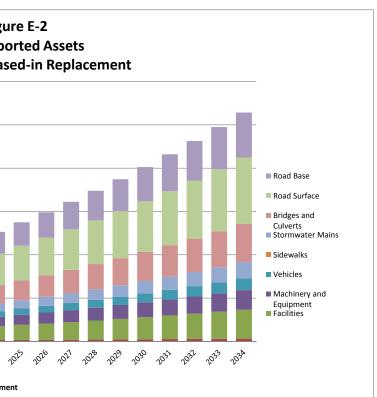
APPENDIX E SCENARIO ANALYSIS – CAPITAL FORECASTS

Municipality of Brooke-Alvinston 2014 Asset Management Plan Scheduled Capital Replacement (Tax Supported Assets) - Inflated

									Replac	Table E ement Year Bas		1										
Asset Type	Immediate Needs	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	TOTAL
Total Scheduled Capital - Inflated	84,988,839	1,203,518	414,858	651,042	2,061,852	2,025,965	2,228,364	845,338	2,262,883	1,346,349	1,487,071	1,195,014	2,544,905	1,376,908	3,755,789	2,345,281	11,580,900	2,840,861	1,914,753	2,188,091	8,485,853	137,744,434
Land Improvements	282,988	-	55,795	-	87,095	3,075	-	-	12,852	-	3,565	-	79,807	-	117,048	24,288	-	6,291	26,717	-	239,778	939,299
Facilities	26,264	-	5,275	-	-	44,770	-	6,115	-	41,091	413,919	46,248	76,684	-	2,199,330	77,543	163,128	373,928	6,683	33,147	47,435	3,561,560
Machinery and Equipment	670,161	157,152	119,685	95,943	425,214	490,454	45,466	150,366	252,333	65,209	531,222	153,272	109,851	109,588	140,852	687,087	131,187	269,444	361,548	73,895	1,553,647	6,593,573
Vehicles	479,507	20,893	-	19,492	338,255	-	226,508	305,324	-	317,547	-	-	698,184	29,788	810	375,374	-	396,683	70,008	36,508	388,828	3,703,711
Sidewalks	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Stormwater Mains	2,934,937	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2,934,937
Bridges and Culverts	10,186,599	255,805	-	36,991	-	1,132,912	1,786,914	-	-	246,662	-	167,392	926,734	229,249	438,999	-	8,990,556	-	-	-	764,701	25,163,514
Road Surface	2,879,124	623,477	83,527	343,521	1,051,541	190,213	-	34,412	1,638,103	305,458	156,870	435,163	248,917	174,545	-	296,476	1,384,981	386,945	-	551,251	3,953,375	14,737,897
Road Base	67,529,259	146,192	150,578	155,095	159,748	164,540	169,476	349,121	359,595	370,383	381,494	392,939	404,727	833,738	858,750	884,513	911,048	1,407,570	1,449,797	1,493,291	1,538,089	80,109,943

	Table E-2 Replacement Year Based on Scenario 2																					
Asset Type	Immediate Needs	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	TOTAL
Total Scheduled Capital - Inflated	-	968,982	1,108,946	1,256,436	1,411,777	1,575,308	1,747,380	1,928,358	2,118,623	2,318,568	2,528,603	2,749,153	2,980,661	3,223,585	3,478,402	3,745,606	4,025,712	4,319,254	4,626,785	4,948,880	5,286,137	56,347,155
Land Improvements	-	11,909	13,629	15,442	17,351	19,361	21,476	23,700	26,039	28,496	31,078	33,788	36,634	39,619	42,751	46,035	49,478	53,085	56,865	60,824	64,969	692,530
Facilities	-	122,585	140,292	158,951	178,603	199,291	221,060	243,956	268,026	293,321	319,892	347,794	377,082	407,814	440,051	473,855	509,291	546,427	585,332	626,080	668,747	7,128,450
Machinery and Equipment	-	82,649	94,587	107,167	120,416	134,365	149,041	164,478	180,706	197,761	215,675	234,487	254,233	274,953	296,688	319,479	343,370	368,408	394,638	422,111	450,877	4,806,088
Vehicles	-	50,342	57,613	65,276	73,346	81,842	90,782	100,184	110,069	120,457	131,368	142,827	154,854	167,475	180,713	194,595	209,148	224,398	240,375	257,109	274,631	2,927,403
Sidewalks	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Stormwater Mains	-	68,017	77,842	88,195	99,099	110,578	122,656	135,360	148,716	162,751	177,494	192,975	209,226	226,278	244,165	262,921	282,583	303,188	324,775	347,384	371,058	3,955,258
Bridges and Culverts	-	161,832	185,208	209,840	235,784	263,096	291,834	322,060	353,836	387,229	422,308	459,142	497,807	538,378	580,936	625,562	672,343	721,369	772,730	826,524	882,850	9,410,668
Road Surface	-	280,868	321,438	364,189	409,216	456,617	506,493	558,951	614,101	672,057	732,938	796,866	863,971	934,384	1,008,245	1,085,697	1,166,888	1,251,973	1,341,114	1,434,476	1,532,233	16,332,714
Road Base	-	190,780	218,337	247,376	277,961	310,158	344,037	379,669	417,130	456,497	497,850	541,274	586,855	634,683	684,853	737,463	792,612	850,407	910,956	974,372	1,040,774	11,094,044

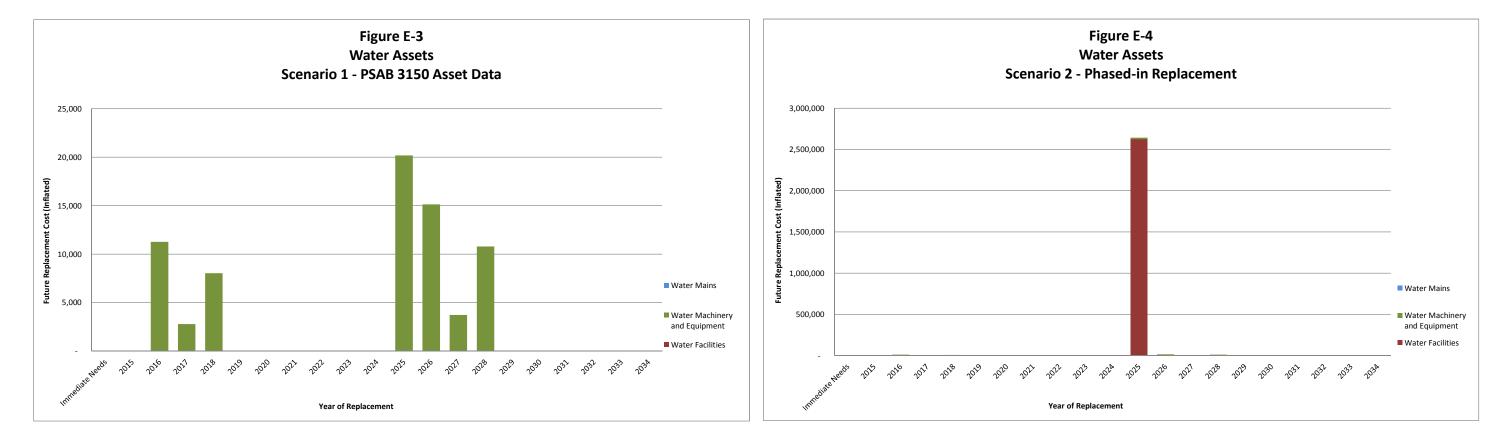




Municipality of Brooke-Alvinston 2014 Asset Management Plan Scheduled Capital Replacement (Water Assets) - Inflated

									Replac	Table E cement Year Bas	E-3 sed on Scenario	1					
Asset Type	Immediate Needs	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Total Scheduled Capital - Inflated	-	-	11,263	2,773	8,021	-	-	-	-	-	-	20,173	15,136	3,726	10,780	-	
Water Facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Water Machinery and Equipment	-	-	11,263	2,773	8,021	-	-	-	-	-	-	20,173	15,136	3,726	10,780	-	
Water Mains	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

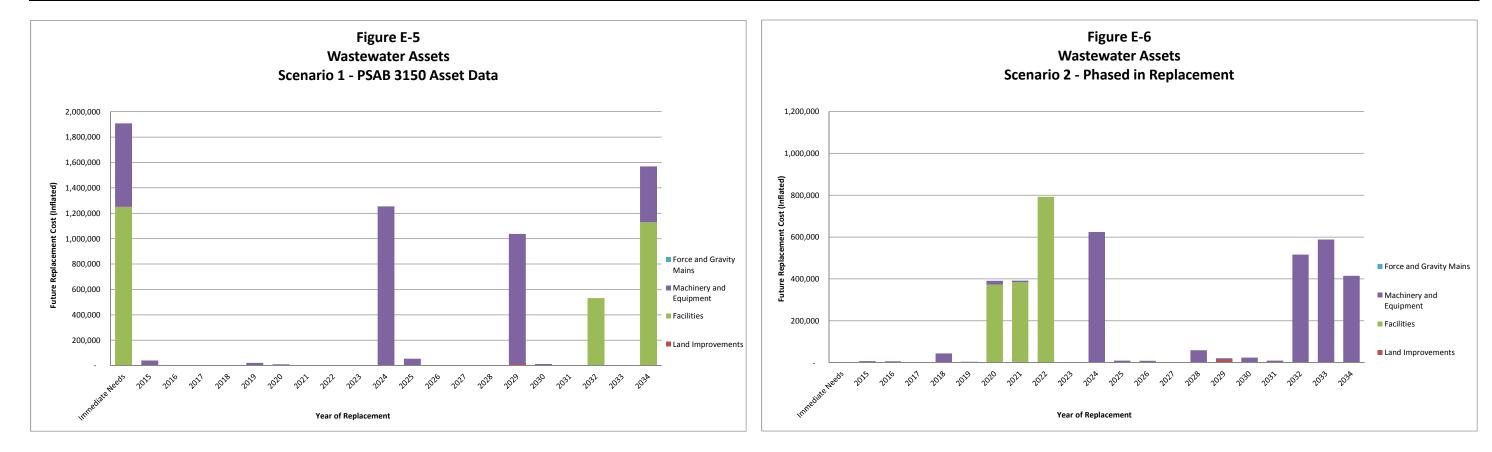
									Replac	Table E ement Year Bas	E-4 sed on Scenario	2										
Asset Type	Immediate Needs	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	TOTAL
Total Scheduled Capital - Inflated	-	-	11,263	2,773	8,021	-	-	-	-	-	-	2,643,441	15,136	3,726	10,780	-	-	-	-	-	-	2,695,141
Water Facilities	-	-	-	-	-	-	-	-	-	-	-	2,623,268	-	-	-	-	-	-	-	-	-	2,623,268
Water Machinery and Equipment	-	-	11,263	2,773	8,021	-	-	-	-	-	-	20,173	15,136	3,726	10,780	-	-	-	-	-	-	71,872
Water Mains	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



Municipality of Brooke-Alvinston 2014 Asset Management Plan Scheduled Capital Replacement (Wastewater Assets) - Inflated

									Repla	Table E cement Year Bas	E-5 sed on Scenario 1											
Asset Type	Immediate Needs	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	TOTAL
Total Scheduled Capital - Inflated	1,907,554	40,562	-	-	-	20,834	9,378	-	-	-	1,254,026	54,512	-	-	-	1,037,587	12,603	-	532,331	-	1,568,931	6,438,317
Land Improvements	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14,313	-	-	-	-	-	14,313
Facilities	1,250,753	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	532,331	-	1,129,500	2,912,584
Machinery and Equipment	656,800	40,562	-	-	-	20,834	9,378	-	-	-	1,254,026	54,512	-	-	-	1,023,273	12,603	-	-	-	439,431	3,511,419
Force and Gravity Mains	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

									Repla	Table E cement Year Bas	sed on Scenario	2										
Asset Type	Immediate Needs	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	TOTAL
Total Scheduled Capital - Inflated	-	7,505	6,670	-	44,323	5,098	391,445	392,300	792,208	-	624,385	10,087	8,964	-	59,566	21,165	24,297	10,392	516,732	587,956	414,915	3,918,008
Land Improvements	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14,313	-	-	-	-	-	14,313
Facilities	-	-	-	-	-	-	373,366	384,567	792,208	-	-	-	-	-	-	-	-	-	-	-	-	1,550,142
Machinery and Equipment	-	7,505	6,670	-	44,323	5,098	18,079	7,733	-	-	624,385	10,087	8,964	-	59,566	6,851	24,297	10,392	516,732	587,956	414,915	2,353,553
Force and Gravity Mains	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



APPENDIX F TAX SUPPORTED ASSET MANAGEMENT STRATEGY & FINANCING STRATEGY

Table F-1 Tax Supported Capital Forecast

	Asteral	Antical	Durdenset						Tax ouppor	rted Capital Fore	5401		_										
Description	Actual 2012	Actual 2013	Budget 2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	Fore 2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Prior Capital Expenses	2012	2010	2014	2015	2010	2017	2010	2019	2020	2021	2022	2023	2024	2023	2020	2027	2028	2029	2030	2031	2032	2033	2034
Administration	11.588	4.874	45.000	-	-			-			-	-		-	-	-	-			-			1 .
Protection	71.846	64.015	85.244	-	-	-	-				-			-	-						-		<u> </u>
Transportation	352.147	579,765	557.000	-	-		-		-	-	-	-		-	-		-	-		-	-	-	<u> </u>
Environmental	332,147	575,705	337,000	-	-		-		-	-	-			-	-			-	-	-		-	<u> </u>
Health	-			-	-	-	-				-				-				-		-		<u> </u>
Recreation and Cultural	97.092	218,169	121.790	-	-	-	-		-	-	-		-	-			-	-		-	-		
Planning and Development	8,200	210,103	50.000	-	-	-	-		-	-	-	-		-	-			-		-	-	-	<u> </u>
Other - Assist River St Project	-	60.000	-	-	-	-	-		-	-	-		-	-	-		-	-	-	-		-	-
Capital Replacement Forecast	-	00,000		-	-	-	-		-	-		-	-		-		-	-	-	-	-		·
Land Improvements				11,909	13.629	15.442	17,351	19.361	21,476	23,700	26.039	28,496	31,078	33,788	36.634	39,619	42,751	46.035	49,478	53.085	56.865	60.824	64,969
Facilities				122,585	140,292	158.951	178.603	19,301	221,476	243,956	268.026	293,321	319,892	347.794	377,082	407.814	440.051	473,855	509,291	546.427	585,332	626.080	668.747
Machinery and Equipment				82,649	94,587	107,167	120,416	134,365	149,041	164,478	180,706	197,761	215,675	234,487	254,233	274,953	296,688	319,479	343,370	368,408	394,638	422,111	450,877
Vehicles				50,342	57,613	65,276	73,346	81.842	90,782	104,478	110.069	120,457	131,368	142,827	154,854	167.475	180,713	194,595	209,148	224,398	240,375	257,109	274.631
Sidewalks				50,342	57,013	- 05,270	73,340		90,782		-	120,457	-		104,004	107,475	100,713	194,595	209,140	- 224,390			274,031
Stormwater Mains				68.017	77.842	- 88.195	99.099	- 110.578	- 122.656	- 135.360	- 148.716	- 162.751	177.494	- 192.975	209,226	226.278	- 244.165	262.921	282.583	303.188	- 324.775	- 347.384	371.058
					185,208	209,840	235,784	263,096			353,836			459,142	497,807	538,378	244,165			721,369		826,524	882,850
Bridges and Culverts				161,832					291,834	322,060	614.101	387,229	422,308					625,562	672,343	1.251.973	772,730 1.341,114		
Road Surface				280,868 190,780	321,438 218,337	364,189 247,376	409,216 277,961	456,617 310,158	506,493 344,037	558,951 379,669	614,101 417,130	672,057 456,497	732,938 497,850	796,866 541,274	863,971 586,855	934,384 634,683	1,008,245 684,853	1,085,697 737,463	1,166,888 792,612	1,251,973 850,407	1,341,114 910,956	1,434,476 974,372	1,532,233
Road Base				190,780	218,337	247,376	277,961	310,158	344,037	379,669	417,130	456,497	497,850	541,274	586,855	634,683	684,853	737,463	792,612	850,407	910,956	974,372	1,040,774
Level of Ormatics A Restaurants																							t
Level of Service Adjustments				0.575	0.050	0 700	0.014	0.000	0.005	0.075	0.407	0.000	0.000	0.404	0.504	0.074	0 704	0.005	1.010	4 400	1.050	1.001	1 4 5 4 6
Rehabiliation and Renewal Works				2,575	2,652	2,732	2,814	2,898	2,985	3,075	3,167	3,262	3,360	3,461	3,564	3,671	3,781	3,895	4,012	4,132	4,256	4,384	4,515
Capital Expansion Forecast																							1
Total Growth Related Projects				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Expenditures	540,873	926,823	859,034	971,557	1.111.598	1,259,167	1,414,591	1,578,206	1,750,365	1,931,433	2,121,790	2,321,830	2,531,963	2,752,614	2,984,225	3,227,256	3,482,183	3,749,501	4,029,724	4,323,386	4,631,041	4,953,264	5,290,652
Capital Financing			,	,	.,,	.,,	.,,	.,	.,,	.,	_,,	_,	_,,	_,,	_,	-,,	-,,	-,,	.,	.,==;===	.,	.,,	-,,
Provincial/Federal Grants		73,525	-		_						-	-					-	-		-		-	1
Debentures		73,525		-	300.000	300.000	300.000	400.000	400.000	400,000	300.000	400.000	300,000	300.000	300.000	200.000	100.000	-	-	-		-	t
Reserve Fund: Gas Tax		150.615		73,778	73,778	73,778	73,778	73,778	73,778	73,778	73,778	73,778	73,778	73,778	73,778	73,778	73,778	73,778	73,778	73,778	73,778	73,778	73,778
Reserve/Reserve Fund: Other		30,000	126,990	-	-	-		-	-	13,110		-	13,110			13,110	-	-		-	13,110	-	
Other	50.840	22,927	28.325		-	-			-		-		-	-	-	-	-	-	-			-	t
Other	50,840	22,927	28,325	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<u> </u>
Transfer from Operating	490.033	649.756	703,719																				<u> </u>
Reserve Fund: New Capital (Tax Supported)	490,033		703,719	- 897,778	737,820	- 885,389	1,040,812	1,104,427	1,276,586	- 1,457,655	1.748.012	1,848,052	2,158,184	2,378,836	2,610,447	2,953,478	- 3,308,405	3,675,723	3,955,946	4,249,608	4,557,262	4,879,485	5,216,874
Reserve Fund. New Capital (Tax Supported)		-	-	097,778	737,820	665,369	1,040,812	1,104,427	1,270,380	1,437,033	1,748,012	1,048,052	2,108,184	2,378,830	2,010,447	2,903,478	3,308,405	3,075,723	3,900,940	4,249,008	4,007,202	4,079,400	5,210,874
Total Capital Financing	540,873	926,823	859,034	971,557	1,111,598	1,259,167	1,414,591	1,578,206	1,750,365	1,931,433	2,121,790	2,321,830	2,531,963	2,752,614	2,984,225	3,227,256	3,482,183	3,749,501	4,029,724	4,323,386	4,631,041	4,953,264	5,290,652
Total Capital Expenses less Capital Financing	-	-	-	-	-	-	. ,	-	-			-			-	. ,	-	-	,	-	-	, .	

Table F-2
Debt Requirements

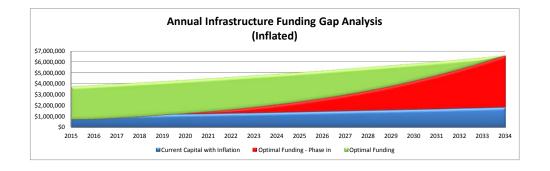
	1							equitements			_										
Non-Growth Related Debt	Principal										Forec	ast									
Year	(Inflated)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Budget 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2015	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2016	300,000			24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073
2017	300,000				24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073
2018	300,000					24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073
2019	400,000						32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097
2020	400,000							32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097
2021	400,000								32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097
2022	300,000									24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073 32,097
2023	400,000										32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097
2024	300,000											24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073
2025	300,000												24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073
2026	300,000													24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073
2027	200,000														16,049	16,049	16,049	16,049	16,049	16,049	16,049
2028	100,000															8,024	8,024	8,024	8,024	8,024	8,024
2029	-																-	-	-	-	-
2030	-																	-	-	-	-
2031	-																		-	-	-
2032	-																			-	-
2033	-																				-
2034	-																				-
Total Annual Non-Growth Related Debt Charges	4,000,000	-	-	24,073	48,146	72,218	104,315	136,412	168,509	192,582	224,679	248,752	272,825	296,898	312,946	320,970	320,970	320,970	320,970	320,970	320,970

					Rese	erve and Reserve	Fund Continuit	y Schedule												
	B61,548 718,923 753,456 740,365 734,685 739,516 728,235 610,172 608,295 527,279 442,442 528,271 569,273 669,669 918,411 1,410,273 2,11 741,057 757,579 863,661 984,307 1,121,052 1,260,917 1,432,095 1,617,984 1,834,247 2,066,830 2,334,343 2,630,602 2,958,345 3,328,245 3,743,380 4,206,680 4,713,817 5,268,382 5,8														<u> </u>					
eserve/Reserve Funds (Tax Supported)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
g Balance	861,548	718,923	753,456	746,363	703,655	734,685	739,516	728,235	610,172	608,295	527,279	492,442	522,849	538,271	569,273	649,669	918,411	1,410,273	2,163,821	3,222,196
rs From Operating	741,057	757,579	863,661	984,307	1,121,052	1,266,917	1,432,095	1,617,984	1,834,247	2,066,830	2,334,343	2,630,602	2,958,345	3,328,245	3,743,380	4,206,680	4,713,817	5,268,382	5,874,681	6,536,967
r to Capital	897,778	737,820	885,389	1,040,812	1,104,427	1,276,586	1,457,655	1,748,012	1,848,052	2,158,184	2,378,836	2,610,447	2,953,478	3,308,405	3,675,723	3,955,946	4,249,608	4,557,262	4,879,485	5,216,874
r to Operating	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Earned	14,097	14,774	14,635	13,797	14,406	14,500	14,279	11,964	11,927	10,339	9,656	10,252	10,554	11,162	12,739	18,008	27,652	42,428	63,180	90,846
Balance	718,923	753,456	746,363	703,655	734,685	739,516	728,235	610,172	608,295	527,279	492,442	522,849	538,271	569,273	649,669	918,411	1,410,273	2,163,821	3,222,196	4,633,135
losing reserve fund balance as a percentage of capital asset balance	0.54%	0.55%	0.53%	0.48%	0.49%	0.48%	0.46%	0.37%	0.36%	0.30%	0.28%	0.28%	0.28%	0.29%	0.32%	0.44%	0.66%	0.98%	1.42%	1.99%

apital Reserve/Reserve Funds (Tax Supported)	2015	2016
Opening Balance	861,548	718,923
ransfers From Operating	741,057	757,579
ransfer to Capital	897,778	737,820
ransfer to Operating	-	-
nterest Earned	14,097	14,774
Closing Balance	718,923	753,456
Note: Closing reserve fund balance as a percentage of capital asset balance	0.54%	6 0.55%

Table F-4 Tax Supported Operating Budget Forecast Summary

Not have a start to a Transferr	Actual	Actual	Budget							<u> </u>			Fore	ecast									
Net Impact on Taxation	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Net Expenditures:																							
Administration	520,478	519,859	546,836	559,100	570,300	581,600	593,200	605,000	617,100	629,400	642,000	654,800	668,000	681,300	694,900	708,800	723,000	737,400	752,100	767,100	782,500	798,100	814,100
Protection	797,993	801,971	900,236	918,500	937,100	956,100	975,400	995,200	1,015,400	1,035,900	1,056,800	1,078,200	1,100,000	1,122,300	1,145,000	1,168,100	1,191,700	1,215,800	1,240,400	1,265,500	1,291,000	1,317,000	1,343,600
Transportation	1,187,573	1,104,064	1,202,924	1,227,000	1,251,500	1,276,500	1,302,000	1,328,000	1,354,600	1,381,700	1,409,300	1,437,500	1,466,200	1,495,500	1,525,400	1,555,900	1,587,000	1,618,700	1,651,100	1,684,100	1,717,800	1,752,200	1,787,300
Environmental	141,486	140,360	141,163	144,000	146,900	149,800	152,800	155,900	159,000	162,200	165,400	168,700	172,100	175,500	179,000	182,600	186,300	190,000	193,800	197,700	201,700	205,700	209,800
Health	5,450	5,450	750	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800
Recreation and Cultural	142,169	231,012	190,751	194,600	198,500	202,500	206,600	210,700	215,000	219,400	223,900	228,400	233,000	237,700	242,500	247,400	252,300	257,300	262,400	267,600	273,000	278,500	284,000
Planning and Development	89,116	41,585	61,336	62,600	63,800	65,100	66,500	67,800	69,200	70,600	72,000	73,500	75,000	76,500	78,100	79,600	81,200	82,900	84,600	86,300	88,000	89,800	91,600
Other Revenue	(1,821,890)	(1,813,347)	(1,648,720)	(1,639,800)	(1,642,400)	(1,645,100)	(1,647,800)	(1,650,500)	(1,653,200)	(1,656,100)	(1,659,000)	(1,661,900)	(1,664,800)	(1,667,900)	(1,671,000)	(1,674,100)	(1,677,300)	(1,680,600)	(1,683,900)	(1,687,300)	(1,690,800)	(1,694,400)	(1,698,100)
Net Expenditures due to Level of Service Adjustments	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	
Transfer to Capital	490,033	649,756	703,719	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-
Transfers to Reserve Funds																							
Transfer to Other Reserve/Reserve Funds	-	100,000	320,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Transfers to Current Reserve Funds (Capital Related)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Reserve Fund: New Capital (Tax Supported)	-	-		741,057	757,579	863,661	984,307	1,121,052	1,266,917	1,432,095	1,617,984	1,834,247	2,066,830	2,334,343	2,630,602	2,958,345	3,328,245	3,743,380	4,206,680	4,713,817	5,268,382	5,874,681	6,536,967
Debentures																							
Existing Debt																							
New Debt	-	-	-	-	-	24,073	48,146	72,218	104,315	136,412	168,509	192,582	224,679	248,752	272,825	296,898	312,946	320,970	320,970	320,970	320,970	320,970	320,970
Surplus/(Deficit) Adjustment	355,814	65,894	(473,764)	(100,000)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Taxation Levy	1,908,222	1,846,604	1,945,231	2,107,857	2,284,079	2,475,034	2,681,953	2,906,170	3,149,132	3,412,407	3,697,693	4,006,829	4,341,809	4,704,795	5,098,127	5,524,343	5,986,191	6,486,650	7.028.950	7,616,587	8,253,352	8,943,351	9,691,037
Taxation Levy Analysis	,,	,,	,, .	, . ,	, - ,	, .,	,,	,,	., ., .	., , .	.,,	,	,- ,	, , ,	.,,		-,,	.,,	,,	,,	.,,		
Prior Year Taxation Levy	1,811,333	1,908,222	1,846,604	1,945,231	2,107,857	2,284,079	2,475,034	2,681,953	2,906,170	3,149,132	3,412,407	3,697,693	4,006,829	4,341,809	4,704,795	5,098,127	5,524,343	5,986,191	6,486,650	7,028,950	7,616,587	8,253,352	8,943,351
Add: Provision for Assessment Growth (see below)				58,357	63,236	68,522	74,251	80,459	87,185	94,474	102,372	110,931	120,205	130,254	141,144	152,944	165,730	179,586	194,600	210,869	228,498	247,601	268,301
Current Year Taxation Levy at 0.0% Increase	1,811,333	1,908,222	1,846,604	2,003,588	2,171,093	2,352,601	2,549,285	2,762,411	2,993,355	3,243,606	3,514,780	3,808,624	4,127,034	4,472,064	4,845,939	5,251,071	5,690,073	6,165,777	6,681,250	7,239,819	7,845,085	8,500,953	9,211,652
Additional Increase in Taxation Levy for the year	96,889	(61,618)	98,627	104,269	112,986	122,432	132,668	143,759	155,777	168,801	182,914	198,205	214,775	232,731	252,188	273,272	296,118	320,874	347,700	376,768	408,267	442,398	479,385
Total Taxation Levy	1,908,222	1,846,604	1,945,231	2,107,857	2,284,079	2,475,034	2,681,953	2,906,170	3,149,132	3,412,407	3,697,693	4,006,829	4,341,809	4,704,795	5,098,127	5,524,343	5,986,191	6,486,650	7,028,950	7,616,587	8,253,352	8,943,351	9,691,037
Percentage Increase (Factoring in Assessment Growth)				5.20%	5.20%	5.20%	5.20%	5.20%	5.20%	5.20%	5.20%	5.20%	5.20%	5.20%	5.20%	5.20%	5.20%	5.20%	5.20%	5.20%	5.20%	5.20%	5.20%
													F										
				2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	ecast 2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Assessment Growth Estimate (%)				3.0%	==	=	== • • •						-			-						3.0%	3.0%
ASSESSIBLIE OTOWITE EStimate (76)				3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%



APPENDIX G WATER ASSET MANAGEMENT STRATEGY & FINANCING STRATEGY

Table G-1 Water Capital Fore

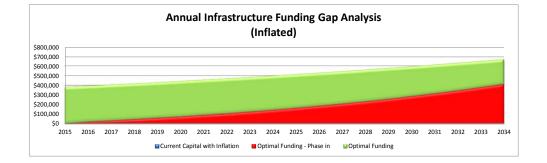
									water	Capital Forecast													
Description	Actual	Actual	Budget										For	ecast									
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Prior Capital Expenses																							
Water Facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Machinery and Equipment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Water Mains	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Capital Replacement Forecast																							
Facilities				-	-	-	-	-	-	-	-	-	-	2,623,268	-	-	-	-	-	-	-	-	
Machinery and Equipment				-	11,263	2,773	8,021	-	-	-	-	-	-	20,173	15,136	3,726	10,780	-	-	-	-	-	-
Mains				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Level of Service Adjustments																							
Rehabiliation and Renewal Works				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Capital Expansion Forecast																							
Total Growth Related Projects				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Expenditures	-	-	-	-	11,263	2,773	8,021	-	-	-	-	-	-	2,643,441	15,136	3,726	10,780	-	-	-	-	-	-
Capital Financing																							
Provincial/Federal Grants	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-
Debentures	-	-	-	-	-	-	-	-	-	-	-	-	-	2,000,000	-	-	-	-	-	-	-	-	-
Reserve Fund: Gas Tax	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Transfer from Operating						-		-							-			_		-	_	-	<u> </u>
Reserve Fund: New Capital		-	-		11.263	2.773	8,021	-			_			643.441	15.136	3.726	10.780						t
Reserve Fund. New Odpital		-	-	-	11,203	2,115	0,021	_		-	-	-	-	043,441	13,130	5,720	10,700	-	-	-	-	-	i
Total Capital Financing	-	-	-	•	11,263	2,773	8,021	-	-	-	-	-	-	2,643,441	15,136	3,726	10,780	-	-	-	-	-	-
Total Capital Expenses less Capital Financing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

								Table G-2 Requirements													
Non-Growth Related Debt	Principal										Fore	ecast									
Year	(Inflated)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Budget 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
2015	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2016	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2017	-				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2018	-					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2019	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2020 2021	-							-	-	-	-	-	-	-	-	-	-	-	-	-	-
2021	-								-	-	-	-	-	-	-	-	-	-	-	-	-
2022	-									-	-	-	-	-	-	-	-	-	-	-	-
2023 2024	-										-	-	-	-	-	-	-	-	-	-	-
	-											-	-	-	-	-	-	-	-	-	-
2025	2,000,000												160,485	160,485	160,485	160,485	160,485	160,485	160,485	160,485	160,485
2026	-													-	-	-	-	-	-	-	-
2027	-														-	-	-	-	-	-	-
2028	-															-	-	-	-	-	-
2029	-																-	-	-	-	-
2030	-																	-	-	-	-
2031	-																		-	-	-
2032	-			1																-	-
2033	-																				-
2034	-																				-
Total Annual Non-Growth Related Debt Charges	2,000,000	-	-	-	-	-	-	-	-	-	-	-	160,485	160,485	160,485	160,485	160,485	160,485	160,485	160,485	160,485

Table G-3 Reserve and Reserve Fund Continuity Schedule

													Fore	cast			
Capital Reserve/Reserve Funds (Water)				2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Opening Balance				36,477	37,207	46,034	77,456	117,174	179,779	258,489	354,626	469,593	604,890	762,108	286,631	300,519	349,424
Transfers From Operating/Capital				-	19,187	32,676	45,442	59,080	73,642	89,183	105,760	123,436	142,275	162,344	23,131	45,780	69,886
Transfer to Capital				-	11,263	2,773	8,021	-	-	-	-	-	-	643,441	15,136	3,726	10,780
Transfer to Operating				-	-	-	-	-	-	-	-	-	-	-	-	-	-
Interest Earned				730	903	1,519	2,298	3,525	5,068	6,953	9,208	11,861	14,943	5,620	5,893	6,851	8,171
Closing Balance				37,207	46,034	77,456	117,174	179,779	258,489	354,626	469,593	604,890	762,108	286,631	300,519	349,424	416,700
Note: Closing reserve fund balance as a percentage of capital asset balance	9			0.23%	0.27%	0.45%	0.65%	0.97%	1.36%	1.81%	2.33%	2.91%	3.56%	1.30%	1.32%	1.50%	1.73%
										ble G-4							
								Wa	ater Operating Bu	udget Forecast	Summary						
Net Impact on Water Revenue	Actual	Actual	Budget										Fore	cast			
Net impact on water Revenue	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028

													Foreca	ast									
Capital Reserve/Reserve Funds (Water)				2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Opening Balance				36,477	37,207	46,034	77,456	117,174	179,779	258,489	354,626	469,593	604,890	762,108	286,631	300,519	349,424	416,700	522,376	657,884	825,577	1,028,788	1,268,983
Transfers From Operating/Capital				-	19,187	32,676	45,442	59,080	73,642	89,183	105,760	123,436	142,275	162,344	23,131	45,780	69,886	95,433	122,608	151,506	183,038	215,313	250,000
Transfer to Capital				-	11,263	2,773	8,021	-	-	-	-	-	-	643,441	15,136	3,726	10,780	-	-	-	-	-	1
Transfer to Operating				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Interest Earned				730	903	1,519	2,298	3,525	5,068	6,953	9,208	11,861	14,943	5,620	5,893	6,851	8,171	10,243	12,900	16,188	20,172	24,882	30,380
Closing Balance				37,207	46,034	77,456	117,174	179,779	258,489	354,626	469,593	604,890	762,108	286,631	300,519	349,424	416,700	522,376	657,884	825,577	1,028,788	1,268,983	1,549,362
Note: Closing reserve fund balance as a percentage of capital asset balance				0.23%	0.27%	0.45%	0.65%	0.97%	1.36%	1.81%	2.33%	2.91%	3.56%	1.30%	1.32%	1.50%	1.73%	2.11%	2.58%	3.14%	3.80%	4.55%	5.39%
								W		able G-4 udget Forecast S	ummary												
Net Impact on Water Revenue	Actual	Actual	Budget										Foreca										/
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Net Expenditures:																							,
Operating Expenditures	64,999	54,738	55,283	56,400	57,500	58,700	59,900	61,100	62,300	63,500	64,800	66,100	67,400	68,700	70,100	71,500	72,900	74,400	75,900	77,400	78,900	80,500	82,100
Water Purchases	93,360	106,365	100,000	102,000	104,000	106,100	108,200	110,400	112,600	114,900	117,200	119,500	121,900	124,300	126,800	129,300	131,900	134,500	137,200	139,900	142,700	145,600	148,500
OCWA	110,260	99,987	102,000	104,000	106,100	108,200	110,400	112,600	114,900	117,200	119,500	121,900	124,300	126,800	129,300	131,900	134,500	137,200	139,900	142,700	145,600	148,500	151,500
Miscellaneous Revenue	(63,347)	(11,974)	(8,500)	(8,700)	(8,900)	(9,100)	(9,300)	(9,500)	(9,700)	(9,900)	(10,100)	(10,300)	(10,500)	(10,700)	(10,900)	(11,100)	(11,300)	(11,500)	(11,700)	(11,900)	(12,100)	(12,300)	(12,500)
Transfer from Taxation	(28,186)	(107,962)	(84,101)	(38,018)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Net Expenditures due to Level of Service Adjustments		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	!
Transfer to Capital	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
																							,
Transfers to Reserve Funds																							,
Transfers to Current Reserve Funds (Capital Related)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Reserve Fund: New Capital (Water)	-	-	-	-	19.187	32.676	45.442	59.080	73,642	89.183	105,760	123.436	142,275	162.344	23,131	45.780	69.886	95.433	122,608	151.506	183.038	215,313	250,000
					., .		- 1	,	.,.		,	.,			.,	.,			,			.,	
Debentures																							,
Existing Debt	27,050	64,627	73,187	72,065	58,026	56,482	55,215	55,215	55,215	39,318	39,318	39,318	39,318	39,318	39,318	39,318	39,318	39,318	39,318	39,318	38,404	38,570	38,356
Existing Debt Recoverable - External	-	-	(17,972)	(16,850)	(1,267)	(1,267)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Existing Debt Recoverable - Internal	-	-	(15,896)	(15,896)	(15,896)	(15,896)	(15,896)	(15,896)	(15,896)	-	-	-	-	-	-	-	-	-	-	-	-	-	1
New Debt	-	-	-	-	-	-	-	-	-	-	-	-	-	-	160,485	160,485	160,485	160,485	160,485	160,485	160,485	160,485	160,485
Surplus/(Deficit) Adjustment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Water Service Revenue	204,136	205,781	204,000	255,000	318,750	335,894	353,960	372,998	393,060	414,201	436,478	459,954	484,693	510,762	538,234	567,183	597,689	629,836	663,711	699,409	737,027	776,668	818,442
Percentage Increase				25.00%	25.00%	5.38%	5.38%	5.38%	5.38%	5.38%	5.38%	5.38%	5.38%	5.38%	5.38%	5.38%	5.38%	5.38%	5.38%	5.38%	5.38%	5.38%	5.38%



APPENDIX H WASTEWATER ASSET MANAGEMENT STRATEGY & FINANCING STRATEGY

Table H-1

Wastewater Capital Forecast

		1							mastemat	er Capital Foreca	451												
Description	Actual	Actual	Budget										Fore						1				
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Prior Capital Expenses																							
Wastewater Facilities	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Wastewater Machinery and Equipment	-	-	-		-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-
Wastewater Mains	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Capital Replacement Forecast																							
Land Improvements				-	-	-	-	-	-	-	-	-	-	-	-	-	-	14,313	-	-	-	-	-
Facilities					-	-	-	-	373,366	384,567	792,208	-	-	-		-	-	-	-	-	-	-	-
Machinery and Equipment				7,505	6,670	-	44,323	5,098	18,079	7,733	-	-	624,385	10,087	8,964	-	59,566	6,851	24,297	10,392	516,732	587,956	414,915
Force and Gravity Mains				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Level of Service Adjustments																							
Rehabiliation and Renewal Works				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Capital Expansion Forecast																							
Total Growth Related Projects				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Expenditures	-	-	-	7,505	6,670	-	44,323	5,098	391,445	392,300	792,208	-	624,385	10,087	8,964	-	59,566	21,165	24,297	10,392	516,732	587,956	414,915
Capital Financing																							
Provincial/Federal Grants	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Debentures	-	-	-	-	-	-	-	-	100,000	300,000	650,000	-	400,000	-	-	-	-	-	-	-	-	-	-
Reserve Fund: Gas Tax	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Reserve/Reserve Fund: Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Transfer from Operating	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Reserve Fund: New Capital	-	-	-	7,505	6,670	-	44,323	5,098	291,445	92,300	142,208	-	224,385	10,087	8,964	-	59,566	21,165	24,297	10,392	516,732	587,956	414,915
Total Capital Financing	-	-	-	7,505	6,670	-	44,323	5,098	391,445	392,300	792,208	-	624,385	10,087	8,964	-	59,566	21,165	24,297	10,392	516,732	587,956	414,915
Total Capital Expenses less Capital Financing	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

							Debt	Table H-2 Requirements													
Non-Growth Related Debt	Principal						200	noquiroinente			Forec	ast									
Year	(Inflated)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Budget 2014	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2015	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2016	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2017	-				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2018	-					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2019	-						-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2020	100,000							8,024	8,024	8,024	8,024	8,024	8,024	8,024	8,024	8,024	8,024	8,024	8,024	8,024	8,024
2021	300,000								24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073	24,073 52,158
2022	650,000									52,158	52,158	52,158	52,158	52,158	52,158	52,158	52,158	52,158	52,158	52,158	52,158
2023	-										-	-	-	-	-	-	-	-	-	-	-
2024	400,000											32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097	32,097
2025	-												-	-	-	-	-	-	-	-	-
2026	-													-	-	-	-	-	-	-	-
2027	-														-	-	-	-	-	-	-
2028	-															-	-	-	-	-	-
2029	-																-	-	-	-	-
2030	-																	-	-	-	-
2031	-		1																-	-	-
2032	-																			-	-
2033	-																				-
2034	-																				-
Total Annual Non-Growth Related Debt Charges	1,450,000	-	-	-	-	-	-	8,024	32,097	84,255	84,255	116,352	116,352	116,352	116,352	116,352	116,352	116,352	116,352	116,352	116,352

Table H-3 Reserve and Reserve Fund Continuity Schedule

	Forecast																			
Capital Reserve/Reserve Funds (Wastewater)	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Opening Balance	64,318	57,949	89,169	141,475	164,366	243,842	50,125	78,377	52,059	139,133	22,794	115,720	239,428	404,831	545,133	762,308	1,021,007	1,342,201	1,196,973	1,023,216
Transfers From Operating/Capital	-	36,142	49,532	63,991	79,793	96,745	119,015	114,870	84,346	107,599	100,744	127,977	157,466	189,179	223,392	262,976	305,269	348,033	394,136	443,830
Transfer to Capital	7,505	6,670	-	44,323	5,098	291,445	92,300	142,208	-	224,385	10,087	8,964	-	59,566	21,165	24,297	10,392	516,732	587,956	414,915
Transfer to Other																				1
Transfer to Operating	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
Interest Earned	1,136	1,748	2,774	3,223	4,781	983	1,537	1,021	2,728	447	2,269	4,695	7,938	10,689	14,947	20,020	26,318	23,470	20,063	21,043
Closing Balance	57,949	89,169	141,475	164,366	243,842	50,125	78,377	52,059	139,133	22,794	115,720	239,428	404,831	545,133	762,308	1,021,007	1,342,201	1,196,973	1,023,216	1,073,174
Note: Closing reserve fund balance as a percentage of capital asset balance	0.43%	0.64%	0.99%	1.11%	1.60%	0.32%	0.49%	0.31%	0.81%	0.13%	0.64%	1.28%	2.10%	2.75%	3.73%	4.85%	6.19%	5.36%	4.45%	4.53%

		Table H-4 Wastewater Operating Budget Forecast Summary																					
Net Impact on Wastewater Revenue	Actual	Actual 2013	Budget	Forecast																			
	2012		2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034
Net Expenditures																							
Operating Expenditures	78,560	106,141	112,387	114,600	116,900	119,200	121,600	124,000	126,500	129,000	131,600	134,200	136,900	139,600	142,400	145,200	148,100	151,100	154,100	157,200	160,300	163,500	166,800 77,800
OCWA	49,150	55,127	52,290	53,300	54,400	55,500	56,600	57,700	58,900	60,100	61,300	62,500	63,800	65,100	66,400	67,700	69,100	70,500	71,900	73,300	74,800	76,300	77,800
Transfer from Taxation	(34,556)	(118,453)	(50,696)	(13,245)			-	-	-	-	-	-		-		-				-	-	-	-
Net Expenditures due to Level of Service Adjustments	-	-	-	-	-	-		-	-	-	-		-	-	-	-	-	-	-		-		
Transfer to Capital	-		-	-	-		-	-	-	-	-	-		-		-		-			-	-	-
Transfers to Reserve Funds																							
Transfers to Current Reserve Funds (Capital Related)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Reserve Fund: New Capital (Wastewater)	-	-	-		36,142	49,532	63,991	79,793	96,745	119,015	114,870	84,346	107,599	100,744	127,977	157,466	189,179	223,392	262,976	305,269	348,033	394,136	443,830
Debentures																							
Existing Debt	39,821	91,998	89,969	87,931	86,053	83,929	82,088	79,773	77,744	63,894	61,851 (54,759)	59,808	57,868	55,694	53,656	51,636	49,607	47,566	22,998	-	-	-	-
Existing Debt - Recovery (External)	-	-	(69,150)	(67,346)	(65,683)	(63,803)	(62,172)	(60,123)	(58,327)	(56,568)	(54,759)	(52,950)	(51,233)	(49,308)	(47,504)	(45,715)	(43,919)	(42,112)	(20,361)	-	-	-	-
New Debt	-	-	-	-	-	-	-	-	-	8,024	32,097	84,255	84,255	116,352	116,352	116,352	116,352	116,352	116,352	116,352	116,352	116,352	116,352
Surplus/(Deficit) Adjustment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Wastewater Service Revenue	132,975	134,813	134,800	175,240	227,812	244,359	262,106	281,143	301,562	323,465	346,959	372,158	399,189	428,182	459,281	492,638	528,419	566,798	607,965	652,121	699,485	750,288	804,782
Percentage Increase				30.00%	30.00%	7.26%	7.26%	7.26%	7.26%	7.26%	7.26%	7.26%	7.26%	7.26%	7.26%	7.26%	7.26%	7.26%	7.26%	7.26%	7.26%	7.26%	7.26%

