TOWNSHIP OF PUSLINCH

ADDENDUM TO THE FEASIBILITY STUDY FOR WATER AND SEWAGE SERVICING IN THE TOWNSHIP OF PUSLINCH

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1. Introduction

1.1 Background

In 2018, the Township completed a Feasibility Study for Water and Sewage Servicing in the Township of Puslinch. The Original Study Area for the Feasibility Study included all properties, including both Residential and Employment lands, in an area bounded on the west by Highway 6 North (Hanlon Parkway), to the north by the City of Guelph, to the east by Victoria Road South, and to the south by Highway 401, but also including the community of Morriston, as shown in Figure 1. During the course of the Feasibility Study, significant objections were raised, in particular from the residential property Owners within the Original Study Area.

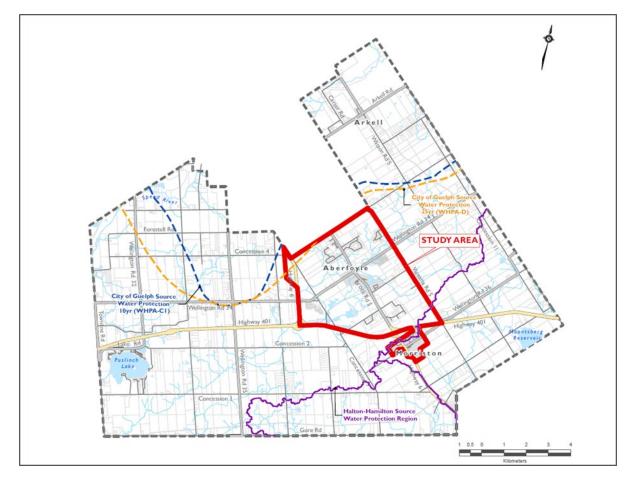


Figure 1: Original Study Area Map

In response to the concerns raised by the residential property owners within the Original Study Area, the Township decided to proceed with undertaking an additional Study, with a reduced Study Area and scope. The Township is now undertaking an Addendum to the Feasibility Study to assess the viability of implementing municipal water and sewage services for commercial and industrial properties bounded on the west by Concession 7 and Sideroad 25 N, to the south by Highway 401 and irregular boundaries (see Figure 2 Scoped Study Area Map). Currently, water and sewage services in the Township consist of individual on-site wells and septic systems, as well as a few small and private communal water and sewage systems servicing individual developments.

The Township is surrounded by growing urban centres on all four sides with increasing demands for resources and land. The natural setting surrounding the Township and its accessibility to major markets and urban centres make this area an attractive place for development. Realizing this potential and the limitations on opportunities for growth resulting from lack of servicing, the need to assess the viability of implementing municipal water and sewage services to support the development of employment lands within the Township was identified.

1.2 Purpose of this Report

This Addendum to the original Feasibility Study Report (*Feasibility Study for Municipal Water and Sewage Servicing in the Township of Puslinch*, dated May 8, 2018) describes the key activities that have been undertaken as part of this assignment and the preliminary results of the additional study, including:

- A description of the scoped project Scoped Study Area; including current land use designations, employment projections, plans for future growth and development; and overview of existing key users;
- Development of preliminary estimates of future water demands and sewage flows for the Scoped Study Area based on analysis of existing available information and general design criteria, as recommended by the Ministry of the Environment, Conservation and Parks (MECP) for drinking water and sewage systems;
- Development of high-level water and sewage servicing options, including major infrastructure requirements and estimates of probable cost associated with each option;
- Results of high-level assessment of water and sewage servicing options, including key advantages and disadvantages for each servicing option considered in the study;
- A review of potential cost recovery tools available to fund the capital works associated with the servicing options and a preliminary assessment of the upfront and annual costs of each option.

2. Addendum Project Scoped Study Area

2.1 Overview

The Township of Puslinch is located in south-central Ontario in Wellington County, generally southeast of the City of Guelph. The Township, along with six other lower tier municipalities, make up the County of Wellington.

A potential servicing area has been delineated to comprise Water and Wastewater Services for the Industrial and Commercial users along brock road in Aberfoyle and between Aberfoyle and Highway 401, as shown below in Figure 2.

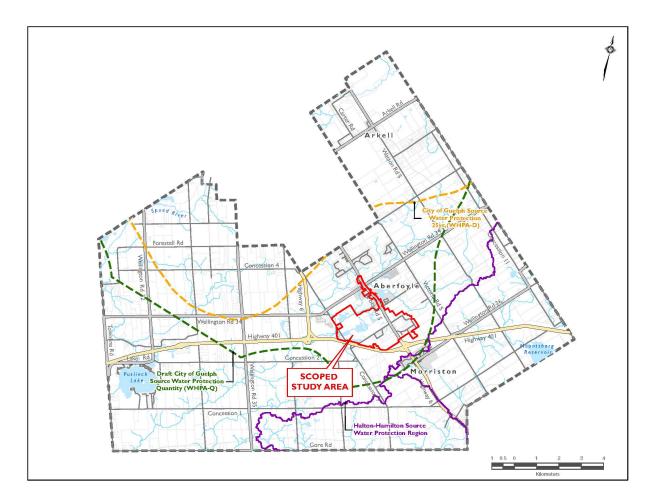


Figure 2: Scoped Study Area Map

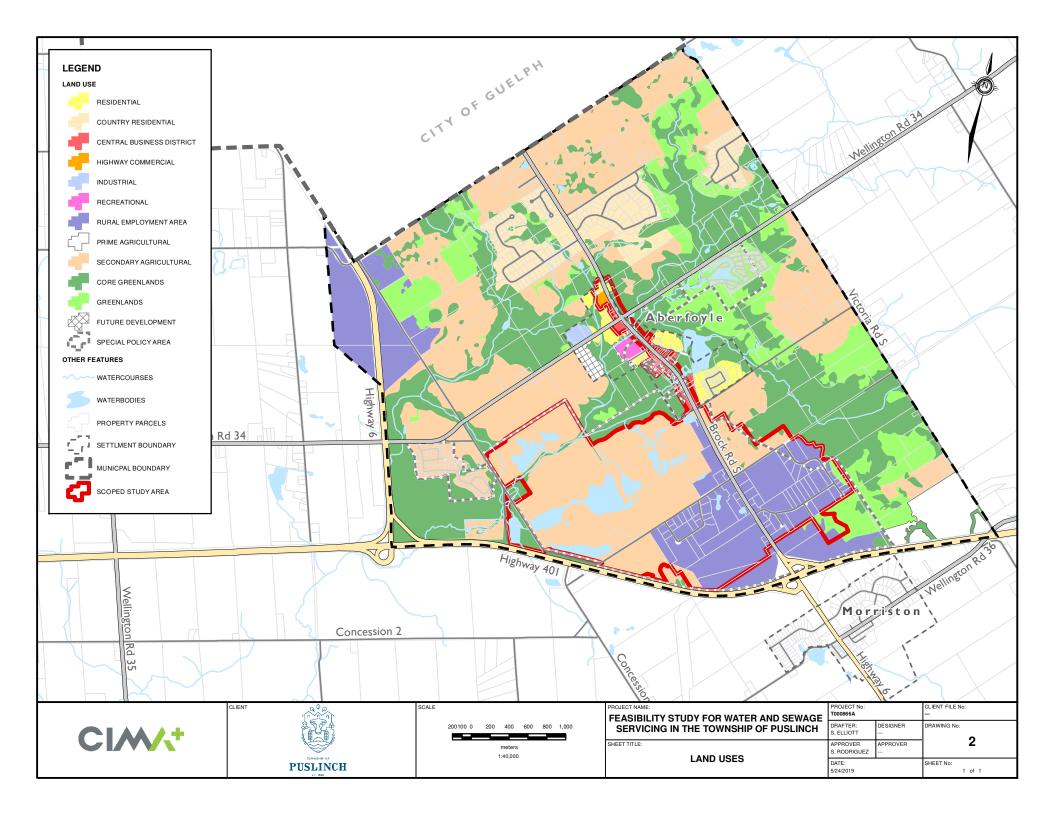
2.2 Commercial and Industrial Land Uses

The County of Wellington provides Planning Services for all growth and development related issues for the Township of Puslinch. The County has developed the County Official Plan (OP), which is used to guide all land use, growth strategies and servicing decisions for the Township. Existing land use designations within the Scoped Study Area are graphically presented in Figure 3.

The Scoped Study Area contains the highest concentrations of employment lands in the Township. In general, the land uses are varied due to historic development patterns and influences of the nearby City of Guelph and major transportation corridors of Highway 401, Highway 6 north and south and Brock Road (the busiest County road in Wellington).

Aberfoyle's designated central business district is along Brock Road and is one focus of the potential servicing area. There is also a highway commercial parcel north of Wellington Road 34.

A major focus of the Scoped Study Area includes the rural employment area and Puslinch economic development area (PA7-1) designations north of Highway 401 and east and west of Brock Road South. With consideration to expand Go Transit access, this is the predominant location for business and industry in the Township.



2.3 Source Water Protection Areas

The City of Guelph and Hamilton Region Source Protection Areas extend into the Scoped Study Area (see Figure 2). The City of Guelph Wellhead Protection Areas (WHPA), WHPA-D, corresponding to the 25-year time of travel, extend into the northwest portions of the Scoped Study Area. The WHPA's do not impact the employment lands under consideration as part of this Study.

Under the Guelph/Guelph-Eramosa Tier 3 Wellhead Protection Study, a draft Protection Area for Water Quantity (WHPA-Q) has been identified. The WHPA-Q covers the majority of the Scoped Study Area. Although policies are not in place yet, it is anticipated that there will be requirements on any new or renewed PTTW in the area, including any new municipal wells for the township or City in the WHPA Q.

In the event that the Township proceeds to develop a municipal Water system for the Scoped Study Area and develops new supply wells, new Well Head Protection Areas for Quality (A through D) will be created.

2.4 Population and Planning Projections

Projected growth within the Scoped Study Area has been set out in the County's Official Plan (OP).

According to the County OP, the majority of growth within the County will be directed to urban centers that offer municipal water and sewer servicing and, to a limited extent, to those urban centres and hamlets that offer partial, private communal, or individual on-site services. While there is anticipated residential growth in Aberfoyle and the surrounding areas, for the purpose of this addendum, the Scoped Study Area will only account for the projected water and sewage demands resulting from existing and planned development of employment lands.

For the purposes of this Study, it has been assumed that all Employment Growth identified within the County Official Plan will occur within the Aberfoyle service area. This assumption is considered to be reasonable since fully serviced employments lands would typically be more attractive to development, and that potential development of Employment Lands outside of the serviced area would likely be discouraged by the Township. Employment projections for the Scoped Study Area are shown in Table 1 below.

	Projected Growth / Planning Period ¹					
	2016	2036	2041			
Total Employment	4,020	5,160	5,630			
1. Projected Employment Growth as per Wellington County Official Plan May 6, 1999 (Last Revision June 1, 2018). Includes 'no fixed place of work' employment.						

Table 1: Projected Employment Growth – Township of Puslinch

2.5 Employment Projections

Based on the information provided by the County of Wellington, the 2016 employment population within the Scoped Study Area was estimated to be 2,224 persons, representing approximately 55% of the total employment population within the Township. For the purposes of this Feasibility Study, and based on discussions with staff from the County of Wellington, the following assumptions have been made:

- The 2016 industrial employment within the Scoped Study Area of 2,224 persons were employed by the major water users known to exist in the Scoped Study Area. As such, water demands from the 2016 employment population, have been captured in the water demands provided by the large users.
- As identified above, the projected employment growth of approximately 1,610 jobs by 2041 has been assumed to occur wholly within the Scoped Study Area. For the purposes of this Study, it is assumed that the Township will direct all development of Employment lands to the Aberfoyle service area. This projected employment growth within the scoped study area will include primary, work at home, industrial, commercial, institutional and no-fixed-place-of-work job types.

The assumptions noted above are considered conservative but adequate for the level of detail required in a feasibility study. Actual employment numbers within the existing large users need to be verified, should the project proceed beyond the Feasibility Study stage.

3. Existing Water and Sewage Services

Municipal servicing is currently not available in the Township. Water and sewage services in the Scoped Study Area currently consist of individual on-site wells, septic systems and a few on-site small and private communal water and sewage systems. The Township has an active role in monitoring the operation and efficiency of these private systems; however, all aspects of operation, monitoring, maintenance and repairs associated with private systems, are ultimately, the responsibility of the systems' owner.

Permits to Take Water (PTTW) issued by the Ontario Ministry of Environment, Conservation and Parks (MECP) require that each permit holder measure and record volumes and rates of water taken each day. Such records shall be submitted every year to the Ministry's Water Taking Reporting System (WTRS).

3.1 Industrial and Commercial Uses

As part of the original Study in 2018, all major industrial and commercial users within the Scoped Study Area were contacted directly and requested to provide the most up-to-date water and sewage usage data, including the latest water volumes reported to the Ministry's WTRS. The following section of this report presents a summary of water usage/consumption for each of the major large users within the Scoped Study Area, as per available operating records and

data provided to CIMA+ for 2015 and/or 2016. Large users are not required to monitor or measure sewage flows, and thus this information was not readily available. Sewage information that was provided to CIMA+, when measured and recorded by the user, has been included in the corresponding section for each major user.

The major industrial and commercial large water users within the Scoped Study Area, along with their permitted water takings, are listed below in Table 2. A brief overview of each of the large users and their reported water demands/consumptions are summarized in the following sections.

ID	User Name	Usage Type PTTW #	Max. Taking as per PTTW (L/s)		
				L/s	m³/d
1	Royal Canin Canada Company	Food processing	3782-AB6MMX	2.8	240
2	Con-Cast Pipe Inc.	Concrete pipe manufacturer	8724-9GFPQE	5.2	450
3	Maple Leaf Foods – Morguard Brock McLean	Distribution centre	7431-96LRQ6		
	Limited			7.6	654
4	Nestle Canada Inc.	Water Bottling	1381-95ATPY	41.7	3,600
5	Dufferin Aggregates – CRH Canada Group Inc.	Aggregate extraction	7510-A34KZH	94.7	8,183
6	Capital Paving Inc.	Aggregate producers	4373-8TXQK3	212.6	18,371
7	CBM Aggregates – St. Mary's	Aggregate	5550-9V7HXS	272.8	23,568
	Cement	extraction	7028-7LTNV9	272.8	23,568
	Total Industrial and Commerc	ial Max. Permitte	ed Taking =	910	78,634

Table 2: Major Industrial and Commercial Users

3.1.1 Royal Canin Canada Company

Royal Canin is a pet food manufacturer located within the rural employment designated area, north of Highway 401 and east of Brock Road South. This facility uses water and generates both process and sanitary sewage. Their reported water usage is summarized in Table 3 below.

Water Source	e Reported Average Water Taking ¹		Max. PTTW Taking	Actual Taken / PTTW		
	m³/d	L/s	L/s	%		
Well PW-1	93.8	1.1	2.8	39%		
1. Two-year average usage based on reported 2015 and 2016 data.						

Table 3: Royal Canin Canada – Water Usage

Royal Canin uses separate sewage treatment systems for its process and domestic sewage. The amended ECA #1042-A3QQRY, allows a discharge of 30 m³/d of treated process and domestic flows for subsurface disposal. The process sewage treatment system consists of a 40 m³ equalization tank and a dissolved air flotation unit. A membrane bioreactor (rated treatment capacity of 75 m³/d) is approved to be incorporated into the existing process sewage treatment system, as well as a UV disinfection unit and osmosis unit for reuse of water for operations. The domestic sewage treatment system consists of a pump station, a sequencing batch reactor (SBR) (rated treatment capacity of 30 m³/d), and a sand filter (the filter is approved to be replaced with a drum filter). Both treated process and domestic sewage discharges to a shallow buried trench system that is laid out in two beds.

The average process and domestic sewage discharged for subsurface disposal by this facility are summarized in Table 4 below.

Sewage Source	Reported Ave Gener		System Rated Capacity	Actual Generation / Rated Capacity	
	m³/d	L/s	m³/d	%	
Process and domestic sewage to buried trench	42	0.54	30	140%	
1. One-year average sewage generation based on 2016 data.					

Table 4: Royal Canin Canada – Sewage Generation

3.1.2 Con-Cast Pipe Inc.

Con-Cast Pipe Inc. is a precast concrete products manufacturer. The manufacturing facility is located within the rural employment designated area, north of Highway 401 and west of Brock Road South. Their footprint comprises a dry cast facility of approximately 120,000 square foot and a wet cast facility of approximately 30,000 square foot. Their report water usage is summarized in Table 5 below.

Water Source	Reported Av Taki		Max. PTTW Taking	Actual Taken / PTTW	
	m³/d	L/s	L/s	%	
Well WSW 1	245.3	2.8	5.2	55%	
Well WSW 2					
1. Two-year average usage based on reported 2015 and 2016 data.					

Table 5: Con-Cast Pipe Inc. – Water Usage

Con-Cast Pipe Inc. is allowed under Amended ECA #3621-6HRKGC to treat and dispose of process sewage at an average flow of 5.66 m³/d from its pre-cast concrete manufacturing facility. The treated process sewage is discharged to one of two on-site infiltration ponds. Based on information provided by Con-Cast Pipe Inc., process sewage flows are not monitored.

3.1.3 Maple Leaf Foods – Morguard Brock McLean Limited

Maple Leaf Foods has a distribution centre within the Township that distributes the company's prepared meats throughout central and eastern Ontario. Schenker Canada operates the distribution centre on behalf of Maple Leaf Foods. Based on information received from Schenker Canada, the water is used for the cooling tower/condenser and the sprinkler; however, their water use is restricted based on the capacity of their septic bed. Their reported water usage is summarized in Table 6 below.

Table 6: Maple Leaf Foods – Water Usage

Water Source	Reported Av Taki		Max. PTTW Taking	Actual Taken / PTTW		
	m³/d	L/s	L/s	%		
TW1	21.6	0.2	7.6	3%		
TW2	21.0	0.2	1.0	0,0		
1. Two-year average usage based on reported 2015 and 2016 data.						

In terms of sewage generation, Maple Leaf Foods is allowed under Amended ECA #7567-94EK2F to treat and dispose of 17 m³/d of treated domestic sewage. The sewage treatment system consists of two septic tanks (total capacity of 25 m³), a tertiary treatment septic tank (rated treatment capacity of 17 m³/d), and a polisher tank. The treated sewage is discharged to a raised stone and sand bed for subsurface disposal. The average domestic sewage generated by this facility are summarized in Table 7 below. Process sewage is not produced on-site as part of their operations.

Table 7: Maple Leaf Foods – Sewage Generation

Sewage Source Reported Average Sewage Generation ¹		System Rated Capacity	Actual Generation / Rated Capacity		
	m³/d	L/s	m³/d	%	
Domestic sewage	14.3	0.17	17 90%	90%	
to septic system	14.0	0.17	17	3070	
1. Two-year average sewage generation based on 2015 and 2016 data.					

3.1.4 Nestle Canada Inc.

Nestle Canada Inc. operates a water bottling facility, located within the rural employment designated area, south of Aberfoyle. Their reported water usage is summarized in Table 8.

Table 8: Nestle Canada Inc Water Usage
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Water Source Reported Average Taking ¹			Max. PTTW Taking ²	Actual Taken / PTTW	
	m³/d	L/s	L/s	%	
TW3-80	2,117.7	24.5	41.7	59%	
TW2-11 ³	-	-	-	-	
1. Two-year average	ge usage based on repor	ted 2015 and 2016 dat	a.		
As per PTTW, tl	ne total taking of 3,600 m	3/d must not be exceed	ded for the combination o	f the water sources.	
 As per PTTW, the total taking of 3,600 m3/d must not be exceeded for the combination of the water sources. Well TW2-11 is to be used for miscellaneous purposes only (such as supplying water for firefighting purposes). As per information provided, no water was taken from Well TW2-11 in 2015 or 2016. Nestle Canada Inc. has recommended that the well be decommissioned. 					

Nestle Canada Inc. operates under two separate approvals for its process and domestic sewage. Amended ECA #2766-8Z6QHV allows Nestle Waters to treat and dispose process sewage and stormwater at an approximate peak flow of 1,444 m³/week. The process sewage treatment system consists of a wet well/pump station, two aerated ponds, and six storage ponds. The treated process sewage discharges to Aberfoyle Creek, which is a tributary of Mill Creek and part of the Grand River watershed. Certificate of Approval (C of A) #3152-55LQ59 permits the treatment and disposal of 15.9m³/d of domestic sewage. The approved domestic sewage treatment system consists of pumping chambers, three septic tanks (total capacity of 41 m³), four tertiary treatment septic tanks (total rated treatment capacity of 20 m³/d), and a dosing chamber. The treated domestic sewage is approved to discharge to a leaching bed and a shallow buried trench.

Based on information provided by Nestle Canada Inc., process and domestic sewage flows are not monitored.

3.1.5 Dufferin Aggregates – CRH Canada Group Inc.

Dufferin Aggregate (a division of CRH Canada Group Inc.) is an aggregate extraction business and operates three extraction pits within the Township of Puslinch. Out of the three pits, only one (Aberfoyle Pit No.1) is within the rural employment designated area, at 125 Brock Road. Their washing operation consists of a closed-loop washing system where the wash water from the wash plant is re-circulated through a settling pond system. Make-up water is periodically taken from the source pond to top-up the amount of water entering the wash plant to compensate from any loss water due to evaporation, infiltration or water adhering to aggregate products.

PTTW #5153-A49MT9 was also registered for this site as per MECP online records. In communication with CRH Canada Group Inc., it was clarified that this PTTW was for a concrete plant that was on the same site; however, the plant is no longer onsite, and water has not been taken from this source since 2010. Their reported water usage for the active wells is summarized in Table 9 below.

Water Source	Reported Average Water Taking ¹		Max. PTTW Taking ²	Actual Taken / PTTW		
	m³/d	L/s	L/s	%		
Pond 5	8.64	0.10	94.7	0.1%		
Make Up Pond 6	126.1	1.46	94.7	2%		
Total	134.8	1.56	94.7	2%		
 Average usage based on reported 2016 data. As per PTTW, the total taking amount may increase from 8,182 m3/d (94.7 L/s) to 12,274 m3/d (142 L/s) for any four months between April and November, and no water shall be taken in January and December. Water must also not be taken from one of the ponds for more than 10 consecutive days in February and March. At all times, water is not permitted to be taken from both ponds simultaneously. 						

Table 9: Dufferin Aggregates – Water Usage

3.1.6 Capital Paving

Capital Paving is a civil construction company specializing in transportation. The head office location in Puslinch has an asphalt and concrete plant, and an aggregate pit on-site. They have four sources for water taking to supply their plant operations, aggregate washing, and office use. According to communication with Capital Paving, there are plans to build a full wash plant on site in the near future, which will increase the water demands for aggregate washing. Their reported water usage is summarized in Table 10 below.

Table 10: Capital Paving – Water Usage

Water Source	Reported Average Water Taking ¹		Max. PTTW Taking²	Actual Taken / PTTW		
	m³/d	L/s	L/s	%		
Pond B: Aggregate washing	166.1	1.92	196	1%		
Well A: Office Use	2.4	0.03	1.3	2%		
Well B: Asphalt Plant	51.7	0.60	6.0	10%		
Well C: Concrete Plant	60.6	0.70	0.70	10%		
Total	280.9	3.3	213	2%		
1. Average usage based on reported 2015 and 2016 data.						

3.1.7 CBM Aggregates – St. Mary's Cement

CBM Aggregates (a division of St. Mary's Cement) is an aggregate extraction business and operates multiple extraction pits within the Township. The pits that have a wash plant on-site are the Aberfoyle and McNally pits, which operate under separate PTTWs to authorize aggregate washing in a closed loop system. Their reported water usage is summarized in Table 11 below.

Water Source	Reported Average Water Taking ¹				Max. PTTW Taking²	Actual Taken / PTTW
	m³/d L/s		L/s	%		
Aberfoyle Main (North) Pit Pond	14,411	166.8	272.8	61%		
McNally Supply Pond	13,726	158.9	272.8	58%		
Total	28,137 325.7		545.6	60%		
1. Average usage based on reported 2015 and 2016 data.						

Table 11: CBM Aggregates – Water Usage

3.2 Summary of Large Users Demands and Flows

3.2.1 Existing Water Demands

A summary of the water demands/usage that have been established for the large users, based on available 2015-2016 operating/recorded data, is presented in Table 12.

As shown below in Table 12, the majority of large industrial and commercial users, have current water demands in their systems below 60% of their permitted maximum water taking. A more representative assessment would involve a comparison between the maximum demands experienced by each system against the maximum permitted taking; however, in the absence of maximum day demand data, the average recorded flows have been compared relative to the maximum allowable water takings to provide a general indication of the current water demands for each user.

Table 12: Summarv	of Existing Water	Demands / Usage -	- Large Industrial a	nd Commercial Users
	of Exioting frator	Bollianao / Oougo	Eargo maaotnara	

Large User Name	Average Water Taking ¹		Max. PTTW Taking	Actual Taken / PTTW
	m³/d	L/s	L/s	%
Royal Canin Canada Company	93.8	1.1	2.8	39%
Con-Cast Pipe Inc.	245.3	2.8	5.2	55%
Maple Leaf Foods – Morguard Brock McLean Limited	21.6	0.2	7.6	3%
Nestle Canada Inc.	2,117.7	24.5	41.7	59%
Dufferin Aggregates – CRH Canada Group Inc.	134.8	1.56	94.7	2%
Capital Paving Inc.	280.9	3.3	213	2%

Large User Name	Average Water Taking ¹		Max. PTTW Taking	Actual Taken / PTTW
	m³/d	L/s	L/s	%
CBM Aggregates – St. Mary's Cement	28,137	325.7	545.6	60%
Total Large Industrial / Commercial Users =	31,030	359.1	910.1	39%

A review of Table 12 indicates that Con-Cast Pipe Inc., Nestle Canada and CBM Aggregates – St. Mary's Cement, are the users with the largest volumes of water usage, relative to their existing permitted water taking capacity. Although Con-Cast Pipe Inc. uses a high percentage of their permitted maximum taking capacity, the water demands for this system are very small compared to the amount of water used on an average daily basis by Nestle Canada Inc. and CBM Aggregates – St. Mary's Cement.

It should be noted that the average water taking by the large users is primarily for process water and is not necessarily indicative of the anticipated water demands for domestic purposes. Only domestic demands will be considered for further review under this Study.

3.2.2 Existing Sewage Flows

Based on information received directly from the majority of the large users, tracking of sewage generation is not required and thus, this information is generally not available. Sewage flow data was received from two users within the Scoped Study Area but considering the different nature of the activities that occur onsite, the data are considered specific to each user and is not deemed to be representative of the current sewage generation for the majority of the users in the Scoped Study Area. As such, these data have been omitted from further review.

For the purpose of the feasibility study, sewage flow generation has been calculated with consideration to the nature of the business and design guidelines provided by the MECP. Calculated sewage flows for the Scoped Study Area are presented in Section 4 of this report.

4. Water Demand and Sewage Flow Analysis

Establishing water distribution, sewage collection, and supply and treatment capacity design flows are integral to capital planning and are key drivers for establishing future needs and timelines for project implementation. This section describes the proposed preliminary design parameters, in terms of water demands and sewage flows, for municipal water and sewage servicing in the Scoped Study Area and the rationale for its development.

4.1 Water System

There are two major components to development of a new Municipal Water System; namely, the Water Supply System and the Water Distribution System.

4.1.1 Water Supply Design Basis

Water treatment systems are generally designed on the basis of projected flows for a 20-year period. A larger design period may be selected for larger systems, in cases where construction cost is an overriding factor or to satisfy the ultimate requirements of the official plan.

The drinking water system, including water supply sources, water treatment plant and treated water storage are typically designed to satisfy the projected maximum day water demand of the service area. As such, establishing the design average and maximum day demands for the system is a critical step in the planning of water systems.

In order to establish the water demands for the Scoped Study Area, a 25-year planning period which corresponds to the year 2041, has been assumed. Projected water demands have been calculated assuming the projected employment growth in the Puslinch service area, as established in the County's Official Plan. In terms of industrial and commercial water demands, maximum day demands for the service area have been projected based on current water usages for each of the large users and a design maximum day factor representative of the mix of industrial and commercial users in the Scoped Study Area.

The basis for calculating the design average and maximum day water demands for the Scoped Study Area are tabulated in Table 13.

Criteria	Value	Units	Comments
Unit per Capita Consumption Rate	360	L/cap/d	Assumed (mid-point from MECP range of 270-450 L/cap/day).
Safety factor for ICI future conditions	1.0	-	Assumed as an ideal safety factor.
Industrial/Commercial Max. Day Factor	3.0	-	Based on MECP suggested range between 2 and 4 for industrial uses.

Table 13: Water Design Basis

4.1.2 Water Distribution Design Basis

The Water Distribution system should be designed to meet the MECP Design Guidelines. In particular, the system shall:

- Be capable of maintaining system pressures between 350 to 480 kPa (50 to 70 psi) under normal operating conditions.
- The maximum system pressure in the distribution system should not exceed 700 kPa (100 psi).
- System pressures shall not drop below 140 kPa (20 psi) under Maximum Day plus Fire Flow conditions.
- Provision of Fire Protection through the municipal water distribution system is a municipal decision. If the Township decides to provide fire protection via the municipal water system, the minimum fire flows should be established with

consideration given to the latest Fire Underwriter's Survey document "Water Supply for Public Fire Protection" and/or the MECP's fire flows guidelines, whichever is judged more appropriate.

4.1.3 Preliminary Projected Water Demands

Preliminary projected water demands for the Scoped Study Area, based on the information available to-date, including employment, industrial and commercial uses are summarized in Tables 14 and 15 respectively. Existing water demands for each user are also included in the tables, where available, for comparative purposes.

Area	Employment ¹		2016 Existing Avg Day Demands	2041 Future Avg Day Demands ²	2041 Future Max. Day Demands ³	
	2016	2041	L/s	L/s	L/s	
Scoped Study Area	1,796	3,406	7.5	14.2	28.4	
Scoped Study Area 1,790 3,400 7.5 14.2 28.4 1. Preliminary projected employment water demands shown in Table 14 reflect total employment count for the Scoped Study Area with the exception of industrial employment count records for 2016. Water demands for 2016 industrial employment have been captured and accounted for in the water demands received from the large users. For example; total 2016 employment as per OP is 4,020, out of which 2,224 corresponds to industrial employment. Since demands for industrial employment has been assumed under demands gathered from existing users, total 2016 employment numbers for Scoped Study Area is 1,796 (4,020 – 2,224). Total forecasted 2041 employment as per OP is 5,630, under the same assumption of industrial employment demands already captured, total 2041						

Table 14: Preliminary Projected Employment Water Demands¹

2. Future average day demands assume a unit consumption rate of 360 L/employment/day.

employment numbers for Scoped Study Area is 3,408 (5,630 - 2,224).

3. Future max. day demands assume a max. day factor of 2.0.

Table 15: Preliminary Projected Industrial and Commercial Water Demands

Industrial / Commercial User	PTTW Capacity		2041 Future Avg. Day Demands ¹	2041 Future Max. Day Demands ²
	m³/d	L/s	L/s	L/s
Royal Canin Canada Company	240	2.8	1.1	2.8
Con-Cast Pipe Inc.	450	5.2	2.8	5.2
Maple Leaf Foods – Morguard Brock McLean Limited	654	7.6	0.2	0.7
Nestle Canada Inc.	3,600	41.7	24.5	41.7
Dufferin Aggregates – CRH Canada Group Inc.	8,183	94.7	1.6	4.7
Capital Paving Inc.	18,371	212.6	3.3	9.8
CBM Aggregates – St. Mary's Cement	47,136	545.6	325.7	545.6
Total Existing Large Users =	78,634	910.1	359.1	610.4
Total Large Users (excluding Nestle Canada Inc. & St. Mary's Cement) =	27,898	323	9.0	23.2

1. Future average day demands for large users assume the current water usages reported for 2015 and 2016.

2. Future maximum day demands assume a maximum day factor of 3.0. However, if the calculated maximum day demands for a user would exceed their existing PTTW taking capacity, the current PTTW rate would prevail and is shown in the table.

4.1.4 Considerations

Considering the financial stability of the Township for the provision of municipal services and the implementation feasibility of a municipal water system for the Scoped Study Area, the following was considered:

- Based on the nature and the character of their businesses, it would not be viable to provide municipal water services to Nestle Canada Inc. for bottling purposes, or to St. Mary's Cement for process and cooling water. It is assumed that these two large users will continue to use the sources that are currently permitted.
- Provision of municipal water services should account for all projected employment and most ICI uses within the Scoped Study Area. Municipal water servicing should also account for provision of municipal potable water to Nestle Canada Inc. and St. Mary's Cement for domestic purposes for the staff at these facilities.
- All other existing large users, considered in this study, would connect to the municipal system. Existing average day water demands recorded for the period 2015-2016 from large users will be maintained to the 2041 planning period.
 Maximum day demands will increase based on the assumed max. day factor of 3.0, or to the current Permit to Take Water (PTTW) rate, whichever rate is lower.

Subject to the above noted considerations, the preliminary projected water demands for the Scoped Study Area are summarized in Table 16. Detailed calculations are provided in Appendix A for further reference.

Service Type	Design Average Day Demand		Design Maximum Day Demand	
	m³/d	L/s	m³/d	L/s
Industrial / Commercial / Recreational (excluding large users) ¹	1226	14.2	2,452	28.4
Industrial / Commercial / Recreational (large users excluding Nestle and St. Mary's) ²	116	1.3	300	3.5
Allowance for Domestic Use at Nestle Canada Inc. and St. Mary's Cement ³	51	0.6	152	1.8
Total Proposed System Demands =	1,393	16.1	2,904	33.6

Table 16: Preliminary Proposed System Water Demands

 The average day demand was found by combining the future employment population of various Industrial/ Commercial/ Recreational users while excluding the large users found in Table 15. A consideration was also made for the recommended design rate of 360 L/cap/d by the MECP.

2. Given that the average water takings reported for the large users in Table 12 is mostly for process water, an assumption has been made that only 15% allowance of their existing average daily taking by the PTTW rate, will contribute to domestic use.

3. An allowance for domestic uses at Nestle Canada Inc. and St. Mary's Cement has been included in the calculations. The allowance is approximately 1% of their existing PTTW rate.

Key considerations for sizing the different water system components include:

- Water supply may be from either a surface water or groundwater source. Given the lack of a significant surface water source within the Scoped Study Area and given the evidence of significant groundwater resources in the area, it is anticipated that a groundwater supply system would be proposed for any water servicing solution within the Township.
- The supply source for the new system should be able to meet the projected maximum design day demands. Multiple groundwater supply wells may be required to satisfy the projected maximum day demands.
- Treatment processes should be able to meet the projected maximum design day demands, with Peak Hour Demands, with Emergency and/or Fire demands provided from storage.
- Provision of Fire Protection through the Municipal water distribution system is a Municipal decision. Should the Township decide to provide fire protection via the municipal water system, the minimum fire flows should be established with consideration given to the latest Fire Underwriter's Survey document "Water Supply for Public Fire Protection" and/or the MECP's fire flows guidelines, whichever is judged more appropriate.
- The distribution system should be designed to maintain system pressures between 40 psi and 100 psi for a full range of demand scenarios. If the Township decides to provide Fire protection through the municipal system, the system should be sized to convey Maximum Day Demands plus Fire Flows while maintaining a minimum pressure of 20 psi throughout the system. The system should also be designed to minimize dead-end mains and excessive residence times which may lead to water quality issues. Watermain sizing would have a direct impact on the cost of the system, operation and maintenance requirements in addition to water quality considerations.

4.2 Sewage Design Basis

Sewage treatment facilities are typically designed for average day flows, while sewage conveyance systems are designed and rated to deliver peak sewage flows to the treatment facilities. Similar to the rationale used to develop the water design basis, a 25-year planning period which corresponds to the year 2041, has been assumed to calculate sewage generation in the Scoped Study Area.

The basis for calculating the design average and peak sewage flows for the Scoped Study Area are summarized in Table 17.

Table 17: Sewage Design Basis

Criteria	Value	Units	Comments
Unit per Capita Sewage Generation Rate	360	L/cap/day	Consistent with unit water consumption rate.
Peak Infiltration / Inflow Rate for Industrial / Commercial Areas	10,110	L/ha/day	Assumed based on the low end of MECP Guidelines as new system should have low I&I contribution.
Population densities for Industrial / Commercial	83	person/ha	Assuming 30 m3/ha/d (low end of MOECC Guideline) and 360 L/cap/d, this would equate to approx. 83 ppha.
Peak Factor	varies	-	Calculated for each drainage area based on Harmon Formula

4.2.1 Preliminary Projected Sewage Flows

Preliminary projected sewage flows for the Scoped Study Area for all industrial and commercial users are summarized in Table 18.

Table 18: Projected Industrial and Commercial Sewage Flows

Industrial / Commercial	Drainage Area			2041 Future Avg. Day	2041 Future Peak Day
Areas	Total	Contributing	Equivalent ICI Population	Flows ¹ (for treatment)	Flows ^{2,3} (for sewer capacity)
	На	На	People	L/s	L/s
Within Aberfoyle	2,435 ⁴	67.8	5,630	23.5	82.9
1. Includes all employment categories, including industrial					

2. Future average day flows for large users assume a unit generation rate of 360 L/cap/cay.

3. Future peak day flows assume an I&I rate of 10,110 L/ha/d and peak factor calculated based on Harmon Formula.

4. Includes existing gravel extraction areas that are excluded from current infiltration allowance calculations

Sewage design flows for the Scoped Study Area are summarized in Table 19. The design flows noted in Table 19 do not account for process sewage generated by the large industries. Detailed calculations are provided in Appendix A for further reference.

Table 19: Proposed Sewage Design Flows

Servicing Category	Design Average Day Flow (for Treatment)		Design Peak Day Flow (for Sewer Capacity)	
	m³/d	L/s	m³/d	L/s
Industrial / Commercial / Recreational	2,027	23.5	6,479.4	82.9

4.3 Summary of Preliminary Projected Water Demands and Sewage Flows

The preliminary projected water demands and sewage flows for municipal servicing in the Scoped Study Area are summarized in Table 20.

	Proposed Average Day Demands		Proposed Max. Day Demands	
	m³/d	L/s	m³/d	L/s
Preliminary System Water Demands	1,393	16.1	2,905	33.6
Preliminary System Sewage Flows	2,027	23.5	6,479.4	82.9

Table 20: Summary of Preliminary Projected Water Demands and Sewage Flows

The preliminary water and wastewater demands are based on the projected employment population and exclude allowances for process water currently consumed by the large users. It is assumed that the large users will continue to source their individual process water demands from their current sources.

The results of the analysis of water demands and sewage flows for the Scoped Study Area are preliminary in nature and a summary of the information obtained to-date, as part of the Addendum to the Feasibility Study.

5. High-level Water Servicing Options – Development and Assessment

As part of the Feasibility Study, potential servicing options for water servicing were developed based on the general criteria established in Section 4. The Servicing Options were developed assuming that municipal water services were provided to all industrial and commercial properties within the Potential Servicing Area. Each option was then assessed on a high-level, in terms of key advantages, disadvantages and estimated probable costs.

This section provides a description of the high-level water servicing options considered in this study. Two alternative options have been reviewed to determine the potential cost implications of each. The options selected consist of Option 1 – Intra-Municipal Water Servicing, and Option 2 – Inter-Municipal Water Servicing. Major infrastructure / process requirements, general schematics and preliminary capital, operating and life cycle costs for each option are also presented.

5.1 General Description

5.1.1 Option 1 – Intra-Municipal Water Servicing

The Intra-Municipal Water Servicing alternative consists on providing the required water supply and treatment capacity through a new water supply system owned and operated by the Township. The new water supply system will be built within or in close proximity to one of the future well supply fields identified in the City of Guelph Water and Wastewater Master Plan.

As part of Option 1, it is assumed that all existing individual on-site wells supplying industrial and commercial businesses within the Scoped Study Area, are expected to be decommissioned. Further consideration can be given to maintaining existing small private

communal water systems during the Class EA stage; however, for the purpose of establishing high-level servicing options, it has been assumed that existing systems would no longer be in service. All small users and large users within the Scoped Study Area, with the exception of Nestle Canada Inc. and St. Mary's Cement, will be supplied by the new Municipal Water System. Nestle Canada Inc. and St. Mary's Cement will be provided with municipal water services for domestic uses only.

A hydrogeological investigation, including well drilling, well and aquifer testing, water quality characterization and groundwater modelling would be necessary to confirm the location and the production capacity of the new groundwater supply well(s) and any potential effects on existing natural heritage features within the area.

A new treatment facility would be required to provide the necessary treatment. A complete water quality characterization would be needed to confirm treatment requirements; however, for the purpose of option development and estimation of probable cost, it has been assumed that the water is of good quality, necessitating only treatment for disinfection.

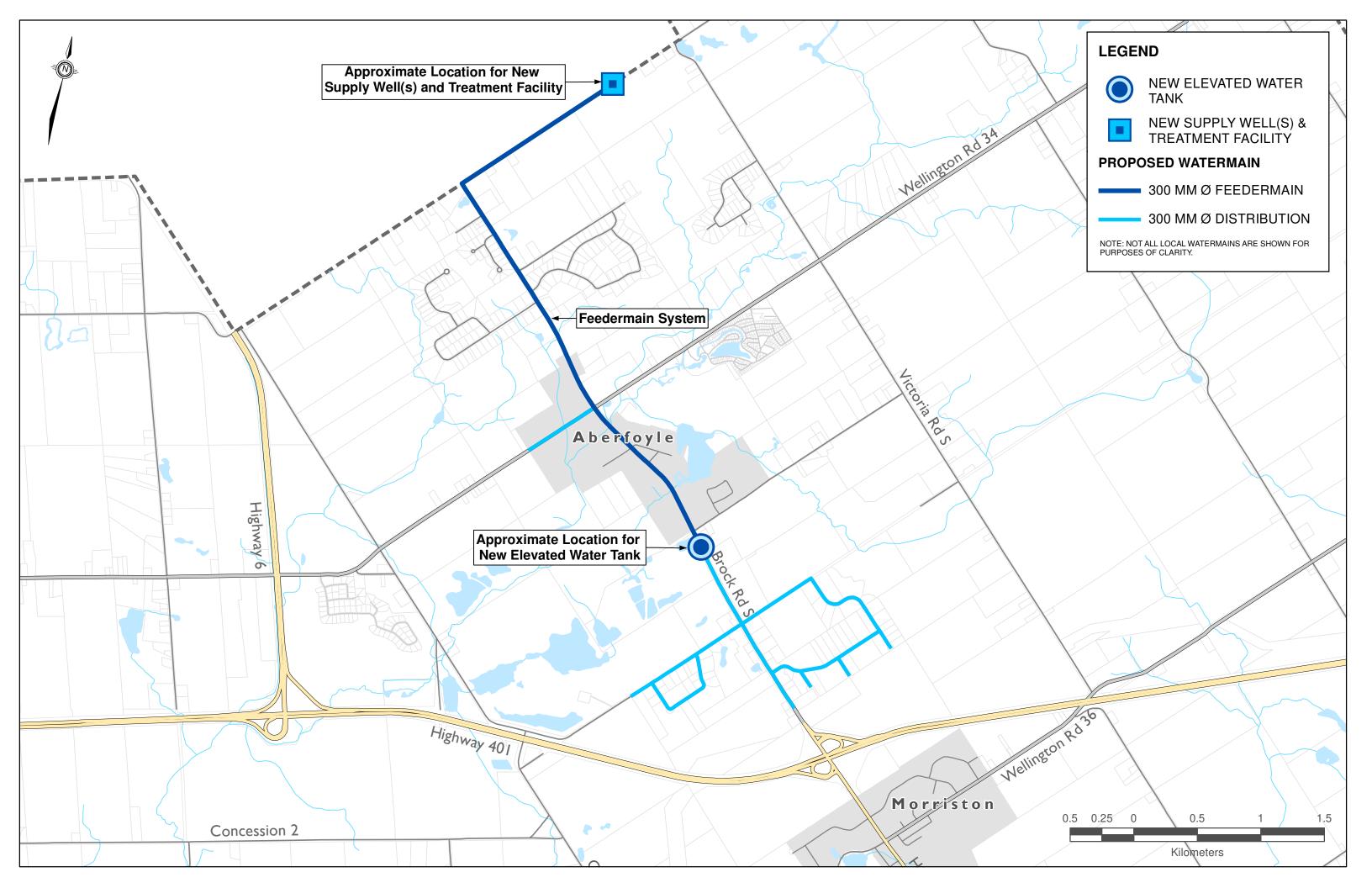
A new storage facility will be provided as part of Option 1 in order to meet the required water storage requirements for equalization, emergency and fire flows. The storage facility may take the form of an in-ground reservoir, an elevated tank, or a combination of the two. For the purposes of this Study, we have assumed that the necessary storage will be provided by a new elevated tank in the Aberfoyle urban center.

A description of the main infrastructure and process requirements for Option 1 – Intra-Municipal Water Servicing is provided in Table 21. A general schematic of the major components of Option 1 is shown in Figure 4.

Land acquisition would be anticipated for construction of the new treatment facility and the new elevated tank. All other linear infrastructure associated with Option 1 is expected to be constructed within existing road right-of-ways, with the exception of the Highway 401 crossing.

Area	Option Requirements
Supply	• A new groundwater supply source will be developed to provide a maximum day demand of 33.6 L/s (2.90 MLD).
Treatment	 A new water treatment facility will be built to provide the required treatment requirements. It is assumed that the water is of good water quality and treatment will consist of only disinfection through chlorination. The new treatment system would be designed to provide a minimum treatment capacity of 2.90 MLD.
Pumping	• The new supply well(s) will be equipped with well pumps with enough capacity to overcome system pressure and pump to the new elevated tower.
Storage	 A new elevated water tank will be built to provide for required storage requirements. The new tank will have a minimum capacity of 2,500 m3.
Distribution	 Approximately 4.9 km of 300 mm diameter watermain connecting the new supply wells/treatment facility to the new elevated water tank. Approximately 5.8 km of local distribution system consisting of 300 mm diameter watermains.

Table 21: Water Servicing Option 1 – Infrastructure / Process Requirements



5.1.2 Option 2 – Inter-Municipal Water Servicing

The Inter-Municipal Water Servicing alternative consists of securing the required water supply and treatment capacity through the existing water supply system in the City of Guelph. Preliminary discussions with staff from the City of Guelph have indicated that the City would be open to negotiations for establishing an Inter-Municipal Servicing arrangement. Through further consultation with the City, the City indicated that they do not have excess water supply capacity to support external servicing requests. The Township acknowledged that the City may not have available capacity to allocate to the Township of Puslinch, and further recognized that if capacity was available, allocation of that capacity would not be without cost. Correspondence associated with preliminary consultation with the City of Guelph is included in Appendix B for further reference.

The Township Council would need to submit a formal request to the City of Guelph to initiate formal consideration of this Option. All water supply, treatment and distribution systems in the City of Guelph would remain under the City's ownership.

Similar to Option 1, all existing individual on-site wells supplying industrial and commercial businesses within the Scoped Study Area, are expected to be decommissioned. All small users and large users within the Scoped Study Area, with the exception of Nestle Canada Inc. and St. Mary's Cement, will be supplied by the new Intra-Municipal Water System. Nestle Canada Inc. and St. Mary's Cement will be provided municipal water services for domestic uses only.

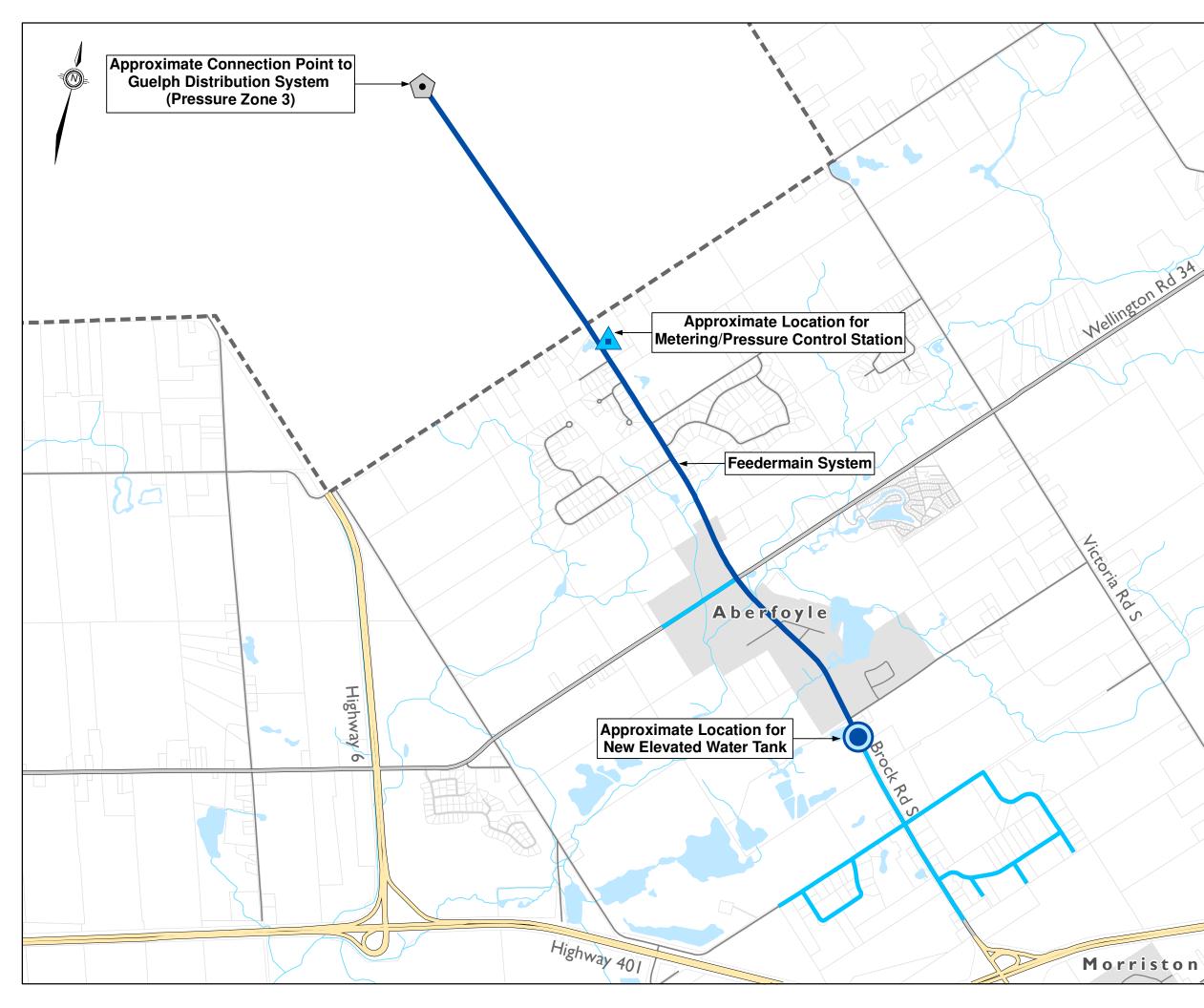
A new elevated water tank in the Aberfoyle urban center will be provided as part of Option 2 in order to meet the required water storage requirements for equalization, emergency and fire flows. A new metering facility will be required at the boundary between the City of Guelph System and the Township system. The metering facility may be combined with a pressure control station/re-chlorination system (either boosting or reduction) and may be required to control system pressures from the City of Guelph distribution system to meet the Township system requirements.

A description of the main infrastructure and process requirements for Option 2 – Inter-Municipal Water Servicing is provided in Table 22. A general schematic of the major components of Option 2 is shown in Figure 5.

Land acquisition would be anticipated for construction of the new pressure control station and the new elevated water tank. All other linear infrastructure associated with Option 2 is expected to occur with the existing road right-of-ways.

Area	Option Requirements
Supply	 A direct connection to the City of Guelph distribution system, Pressure Zone 3. City of Guelph Water System should be able to provide a maximum day demand of 33.6 L/s (2,904 m³/d).
Treatment	Not required within the Township.
Facilities	• A new metering facility with a potential pressure control station will be required to accommodate maximum day flows of 33.6 L/s (2,904 m ³ /d) to the new elevated tower in the Township. A new pressure control station may be required to control system pressures in the Township.
Storage	 A new elevated water tank will be built to provide for required storage requirements. The new tank will have a capacity of 2,500 m³
Distribution	 Approximately 2.3 km of 300 mm diameter watermain extension in Guelph to the Puslinch border, and a metering facility at the municipal boundary. Approximately 3.2 km of 300 mm diameter watermain from the metering facility to the new to the new elevated water tank. Approximately 5.7 km of local distribution system consisting of 300 mm diameter watermains.

Table 22: Water Servicing Option 2 – Infrastructure / Process Requirements



LEGEND



NEW ELEVATED WATER TANK

NEW BOOSTER PUMPING STATION



0.5 0.25 0.5

lington

0.5

Kilometers

PROPOSED CONNECTION POINT TO GUELPH SYSTEM

PROPOSED WATERMAIN

400 MM Ø FEEDERMAIN

300 MM Ø DISTRIBUTION

1.5

NOTE: NOT ALL LOCAL WATERMAINS ARE SHOWN FOR PURPOSES OF CLARITY.

5.2 Estimates of Probable Cost – Water Servicing Options

Estimates of probable capital, operating and maintenance costs and life cycle costs have been developed. Capital costs include development of new supply, treatment and storage facilities, major process and treatment equipment such as pumps, piping and valves, instrumentation, treatment equipment, standby power supply and watermain installation. Operating and maintenance costs accounted for include power, chemical usage, regulatory requirements and other replacement and labour costs. Life cycle costs have been calculated based on a 20-year life expectancy.

The following general assumptions were made when developing the costs for the servicing options:

- Cost estimates are based on 2019 construction costs. Inflation and escalation to account for actual expected prices at the time of construction cannot be accounted for at this time.
- Estimates of probable capital costs have been developed on a conceptual level and based on prices and data in CIMA's possession, as well as previous experience from projects of similar nature and scope. The accuracy of conceptual estimates developed at this point, are assumed to be around +/- 30%.
- There is capital expenditure associated with the replacement of major pumping and treatment equipment every 30 years for water facilities.
- All taxes (including the 13% HST) have been excluded.
- The cost to decommission existing private groundwater wells and small communal water systems within the Scoped Study Area has not been accounted for in Water Servicing Options 1 and 2. Should this project proceed to the next phases (i.e., completion of a Class Environmental Assessment Study), an inventory of existing groundwater wells within the Scoped Study Area should be completed and the cost for decommissioning existing wells and private communal water systems should be added to CIMA's preliminary estimates.
- Capital costs associated with any required upgrades needed in the City of Guelph Water System to accommodate the inter-municipal connection and servicing, or any Capital Contributions to secure Supply capacity from Guelph are unknown at this point and have not been accounted for in the estimate for Option 2. The required capital costs would need to be identified through further negotiations between the Township and the City, as well as the mechanisms to pay for these upgrades. Similarly, a portion of the operation and maintenance (O&M) costs for Option 2 should be covered under a Bulk Water Rate that the Township would pay to the City, also to be established through further negotiations between the two parties.

Completion of Class Environmental Assessment (Class EA) studies as well as additional amendments to existing master plans, servicing studies, secondary plans, approved draft plans,

etc., have not been accounted for and should be included in the Capital Upgrade Costs, through consultation and negotiations between the Township and the City.

Life cycle costs have been estimated based on:

- A 20-year amortization period
- An inflation rate of 2% and an interest rate of 6% to give a market/discount rate of 4%

Estimates for probable capital, operating and life cycle costs for the water servicing options are summarized Table 23. Detailed costs calculations are included in Appendix C.

Table 23: Water Servicing Options -	Probable Cost Estimates
-------------------------------------	-------------------------

Servicing Alternative	Capital Cost (\$ millions)	Annual Operating & Maintenance Cost	NPV 20-Year Life Cycle Cost ¹ (\$ millions)	
Option 1 – Intra-Municipal Water Servicing	\$22.9	\$504,000	\$28.8	
Option 2 – Inter-Municipal Water Servicing	\$19.9	\$95,400	\$20.3	
 Net Present Value (NPV) represents the value of the project in today's dollars. Calculated NPV for Option 2 gets reduced over time as a result of the lower O&M costs which represent cash outflows. Higher cash outflows, as in Option 1, results in a higher NPV. 				

5.3 High-level Assessment

This section presents the results of the high-level assessment completed for the water servicing options considered in the Feasibility Study. Key advantages and disadvantages are summarized in Table 24.

Servicing	Advantages	Disadvantages
Option		
Option 1 – Intra- Municipal Servicing	 Option provides the Township with complete control of the operation and maintenance of the water supply system. Complete independent system from supply, to treatment and distribution. Township can provide desired level of robustness and flexibility to the system. Provision of municipal water servicing (coupled with wastewater servicing) in the area will provide an invitation for developers to invest in the Township and promote growth in accordance with the County Official Plan – population and employment. 	 Option results in highest capital, O&M and life cycle costs. Option requires the largest amount of new infrastructure.
Option 2 – Inter- Municipal Servicing	 Option results in lower capital, O&M and life cycle costs when compared to Option 1. Option provides the Township with some control of the operation and maintenance of the water supply system – through a servicing agreement between the Township and the City. Option is able to optimize the use of some of the existing infrastructure (in City of Guelph) and reduces the need for new infrastructure. Water supply is dependant on City of Guelph supply but provision of an elevated tower in the Township would provide adequate level of robustness and flexibility to the system. City of Guelph has a proven track record of providing adequate level of water servicing to its residents, which create trust to potential future serviced areas in the Township. Option supports affordable and sustainable development between two municipalities. It may provide an opportunity for the two municipalities (City of Guelph and Township) to partner for funding opportunities and share existing resources. 	 It most likely requires an amendment the City of Guelph Official Plan to allow the extension of the City's urban services for areas outside of the City's urban boundaries. This process may be long. Amendments to existing Secondary Plans and approve Draft Plans may be required. City of Guelph Water Servicing Master Plan would need to integrate servicing to the area in Township. Upgrades to existing water servicing infrastructure in Guelph Pressure Zone 3 may be required, directly or indirectly, to accommodate the intermunicipal transfer. An inter-municipal agreement will be required to establish an intermunicipal services scheme. The cost of any Capital Contribution and/or Capital Upgrades to secure supply from the City of Guelph is unknown at this time and may represent a significant impact to the overall project cost.

Table 24: Water Servicing Options – High-Level Assessment Results

Servicing Option	Advantages	Disadvantages
	 This coordinated approach to service delivery can result in efficiencies in infrastructure costs, water conservation, and allow for additional funds to be allocated to improved treatment and program delivery. Provision of municipal water servicing (coupled with wastewater servicing) will provide an invitation for developers to invest in the areas and promote growth in accordance with the County Official Plan – population and employment. 	
Common to Both Options	 Depending on individual user rates, there could be possible reductions in cumulative water takings by removing private PPTW as they attach to the municipal system. Theoretically it would be easier to manage and monitor the single municipal system for water quality and quantity compared to many private takers, ultimately contributing to efficiency. The burden to obtain the private updated PPTWs and comply with any changes in condition would be removed from the individual users and responsibility will be placed on the Township. Competitive increase in the Township for economic development. 	 The township will hold responsibility for the increased PPTW conditions related to the water quantity requirements in compliance to the WHPA Q. Increased cost for the Township for enforcement of the new source protection requirements under the Clean Water Act. establishment of new quality WHPAs around the new municipal wells and associated Source Protection Plans for quality significant drinking water threats (i.e. fuel, chemicals, septics, etc.). This could lead to some restrictions on existing industries including risk management plans or amended provincial approvals and even an expanded septic inspection program.

6. High-level Sewage Servicing Options – Development and Assessment

6.1 General Description

Similar to the Water servicing options, potential servicing options for sewage servicing were developed based on the general criteria established in Section 4. The Servicing Options were developed assuming that municipal sewage services were provided to all industrial and commercial properties within the Scoped Study Area. Each option was then assessed on a high-level, in terms of key advantages, disadvantages and estimated probable costs.

This section provides a description of the high-level sewage servicing options considered in this study. Two alternative options have been reviewed to determine the potential cost implications of each. The options selected consist of Option 1 – Intra-Municipal Sewage Servicing, and Option 2 – Inter-Municipal Sewage Servicing. Major infrastructure / process requirements, general schematics and preliminary capital, operating and life cycle costs for each option are also presented.

6.1.1 Option 1 – Intra-Municipal Sewage Servicing

The Intra-Municipal Sewage Servicing alternative considers the development of a stand-alone system for wastewater collection, treatment and disposal. The system would be owned and operated by the Township.

On a preliminary basis, the system would consist of a conventional gravity collection system with a pumping station and forcemain system as required to accommodate ground elevation variations. A new treatment facility would be required, with discharge to a surface water course. For the purpose of this Study, a site in the vicinity of Mill Creek was selected; however, other discharge receivers should be explored in the next stages, including but not limited to the Speed River. Potential sensitivities and assimilative capacity of the receiving water body would need to be reviewed as part of a Class EA Study.

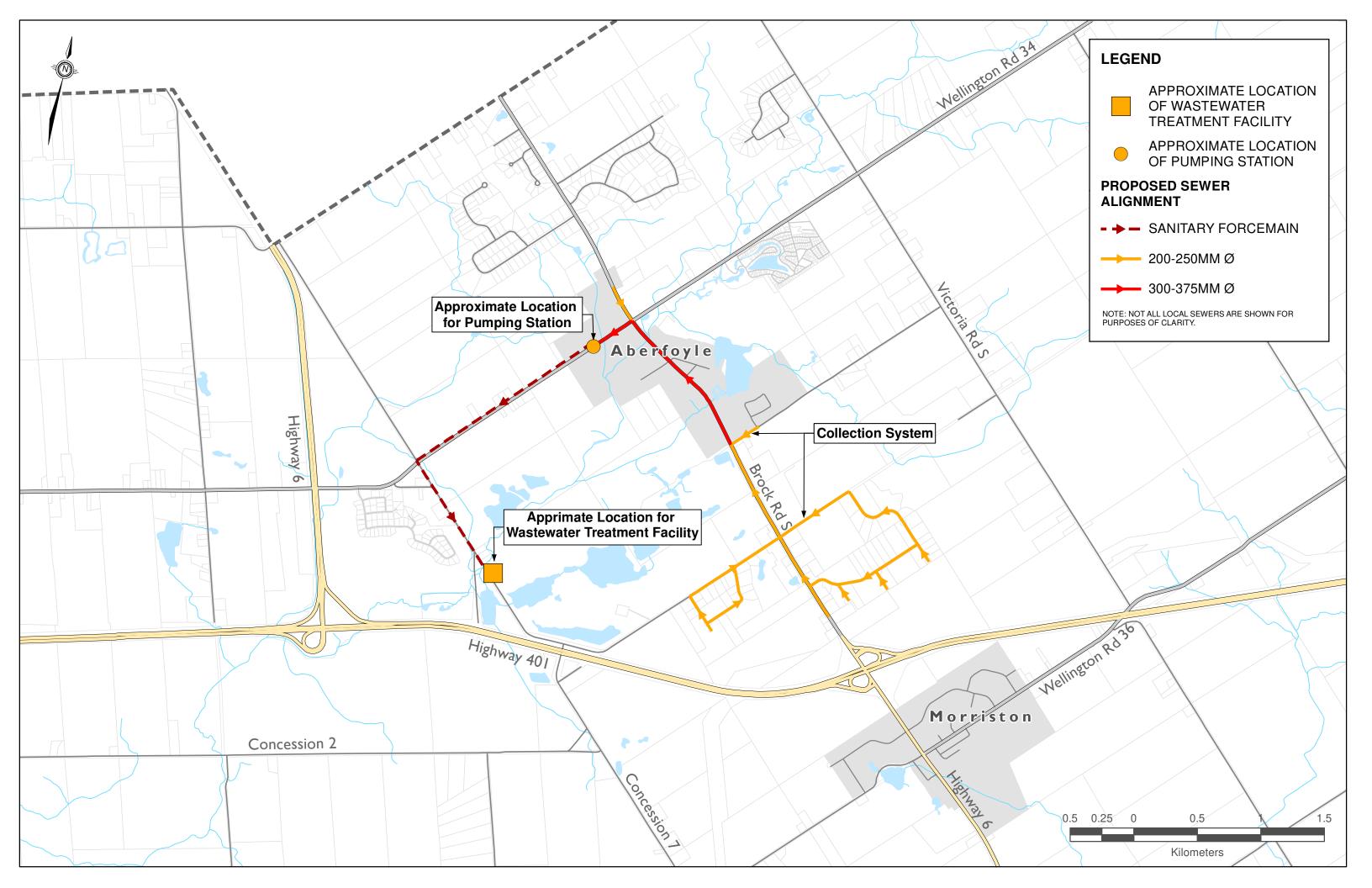
This system would allow a stand-alone collection and treatment for the Scoped Study Area operated and maintained by the Township. This option includes sanitary sewer installed at standard depths of three (3) metres to five (5) below existing ground surface. However, in order to service the urban area of Aberfoyle, a pumping station and forcemain would be required to convey the wastewater to the treatment facility.

As shown in Figure 6, a pumping station would be required for the collection and conveyance of Aberfolyle's industrial and commercial sector and the surrounding area. The existing industrial/commercial lands north of Highway 401, and the areas east of Highway 6 could be serviced by gravity sewer to a waste water treatment facility generally located near Concession Road 7 and Mill Creek area.

A description of the main infrastructure is summarized for Option 1 – Intra-Municipal Sewage Servicing in Table 25 below. A general schematic of the major components of Option 1 is shown in Figure 6.

Area	Option Requirements
Collection	• A new conventional gravity collection system would be required in the Aberfoyle urban center and surrounding areas in order to collect wastewater from the individual properties. The sewer system would range in size from 200 mm diameter up to 375 mm diameter.
Pumping	 One central pumping station would be required to convey the wastewater in Aberfolyle's industrial and commercial sector to the Treatment facility. The pumping station would be designed to convey the Peak Projected flow of 82.9 L/s. Local pumping station(s) may be required due to local topographic constraints. Provision of stand-by power and overflow storage would need to be considered during detailed design.
Treatment	• A wastewater treatment facility would need to be constructed to provide the required treatment capacity. It is anticipated that construction of the facility would be staged to accommodate current populations plus anticipated growth over the design period, with provisions for expansion beyond the current planning horizon. A new treatment plant would need to be designed for a capacity of 6,479 m ³ /day.
Effluent Discharge	• For the purpose of this study, it has been assumed that treated effluent may be discharged to Mill Creek. An Assimilative Capacity Study will be required to determine if Mill Creek can be used for this disposal of treated effluent, and to establish design parameters and effluent criteria and loading limits from this facility.

Table 25: Sewage Servicing Option 1 – Infrastructure / Process Requirements



6.1.2 Option 2 – Inter-Municipal Sewage Servicing

The Inter-Municipal Sewage Servicing alternative consists of collection and conveyance of wastewater through a sanitary sewer network, a pumping station and forcemain, with an outlet to the Guelph collection system for ultimate treatment and disposal.

Option 2 will rely on the Guelph system for treatment, and therefore will require an intermunicipal servicing agreement. Preliminary discussions with staff from the City of Guelph have indicated that the City would be open to discussions necessary to establish an inter-municipal servicing agreement; however, no terms and/or conditions have been identified. Through further consultation with the City, the City indicated that they do not have excess sewage treatment capacity to support external servicing requests. The Township acknowledged that the City may not have available treatment capacity to allocate to the Township of Puslinch, and further recognized that if capacity was available, allocation of that capacity would not be without cost. Correspondence associated with preliminary consultation with the City of Guelph is included in Appendix B for further reference.

The Township Council would need to submit a formal request to the City of Guelph to initiate formal consideration of this Option.

The preliminary sewer alignment and location of the pumping station is similar to Option 1, in order to convey the wastewater flows to the Guelph system. In addition, a flow monitoring facility would be required at the discharge location to measure flows for billing purposes.

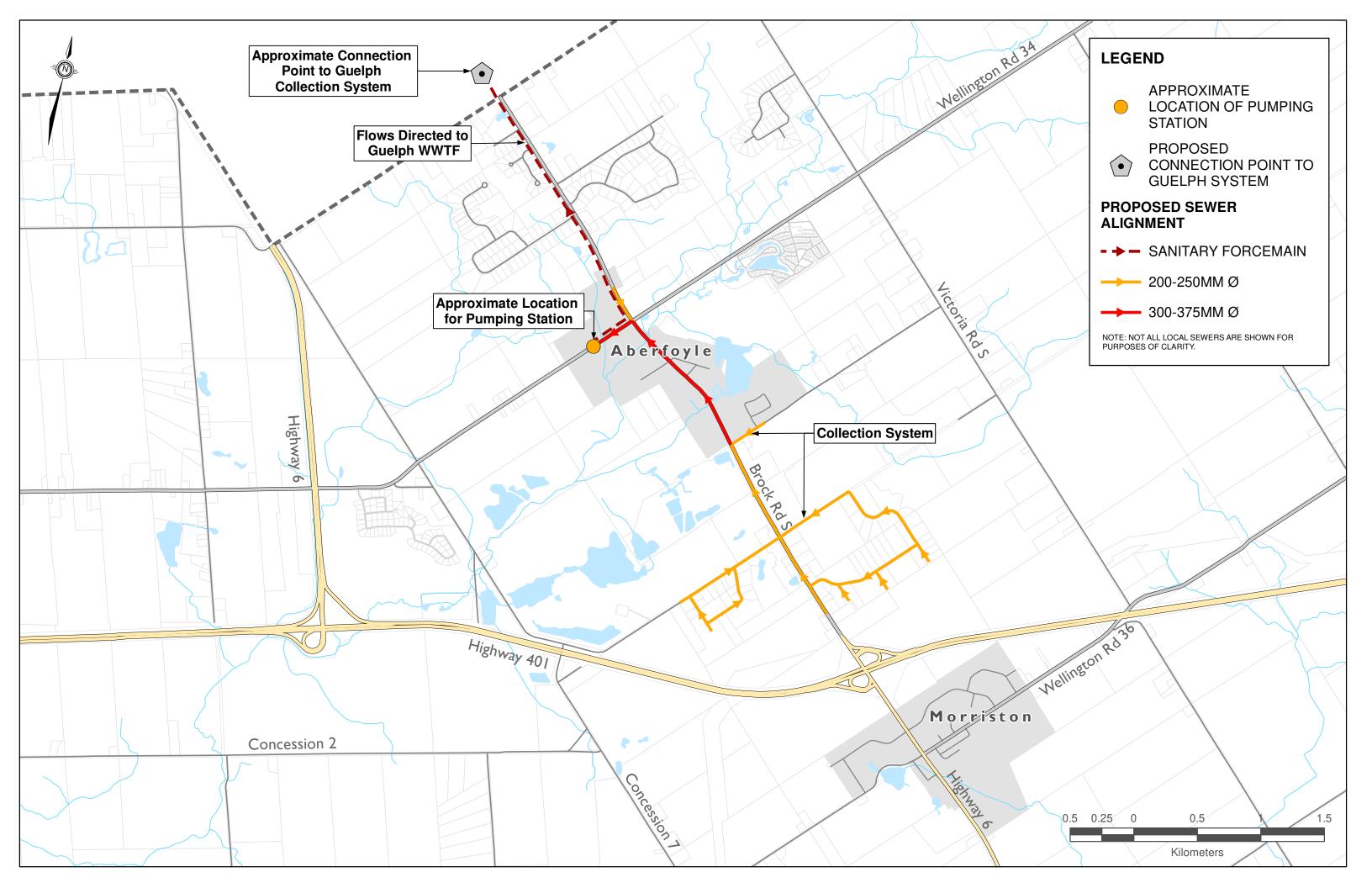
As with Option 1, this system includes sanitary sewer installed at standard depths of three (3) to five (5) metres below existing surface. Figure 7 provides an approximate location for a pumping station to service the industrial/commercial area surrounding Aberfoyle. The pumping station will have an associated forcemain system which will discharge to the gravity system prior to being pumped into Guelph.

A description of the main infrastructure is summarized for Option 2 – Inter-Municipal Sewage Servicing in Table 26 below. A general schematic of the major components of Option 2 is shown in Figure 7.

Area	Option Requirements
Collection	• A new gravity sewer system would be required in the Aberfoyle urban center and surrounding areas in order to collect the wastewater. The sewer system would range in size from 200 mm diameter up to 375 mm diameter.
Pumping	 One pumping station would be required to convey the wastewater in Aberfolyle's industrial and commercial sector. The pumping station would be designed to convey the Peak Design Flow (82.9 L/s) to the Guelph System. Local pumping station(s) may be required due to topographic constraints.

Table 26: Sewage Servicing Option 2 – Infrastructure / Process Requirements

As part of Option 2, all existing individual on-site septic tanks, and communal wastewater systems within the Scoped Study Area are expected to be decommissioned, and costs for decommissioning will be responsibility of the business property owners or through another mechanism, to be determined by the Township.



6.2 Estimates of Probable Cost – Sewage Servicing Options

Estimates of probable capital, operating and maintenance costs and life cycle costs have been developed. Capital costs include an allowance for property acquisition and the pumping station; and for Option 1, a treatment facility. Major process and treatment equipment such as pumps, piping and valves, instrumentation, treatment equipment, standby power supply are assumed to be included. Operating and maintenance costs accounted for include power, chemical usage, regulatory requirements and other replacement and labour costs. Life cycle costs have been calculated based on a 20-year life expectancy.

The following general assumptions were made when developing the costs for the servicing options:

- Cost estimates are based on 2019 construction costs. Inflation and escalation to account for actual expected prices at the time of construction cannot be accounted for at this time.
- Estimates of probable capital costs have been developed on a conceptual level and based on prices and data in CIMA's possession, as well as previous experience from projects of similar nature and scope. The accuracy of conceptual estimates developed at this point, are assumed to be +/- 30%.
- There is capital expenditure associated with the replacement of major pumping and treatment equipment every 30 years for wastewater facilities.
- The cost to decommission existing private septic systems within the Scoped Study Area has not been accounted for in Sewage Servicing Options 1 and 2.
- Capital costs associated with any required upgrades needed in the City of Guelph collection and treatment system to accommodate the inter-municipal Option, are unknown at this point and have not been accounted for. The required capital costs would need to be identified through further negotiations between the Township and the City, as well as the mechanisms to pay for these upgrades. Similarly, a portion of the City of Guelph's operation and maintenance (O&M) costs would need to be reviewed and negotiated for Option 2.
- Completion of a Class Environmental Assessment (Class EA) study as well as additional amendments to existing master plans, servicing studies, secondary plans, approved draft plans, etc., have not been accounted for and should be included in the Capital Upgrade Costs, through consultation and negotiation between the Township and the City.

Life cycle costs have been estimated based on:

- A 20-year amortization period
- An inflation rate of 2% and an interest rate of 6% to give a market/discount rate of 4%

Estimates for probable capital, operating and life cycle costs for the sewage servicing options are summarized Table 27.

Table 27: Sewage Servicing Options – Probable Cost Estimates

Servicing Alternative	Capital Cost (\$ millions)	Annual Operating & Maintenance Cost	NPV1 20-Year Life Cycle Cost (\$ millions)
Option 1 – Intra-Municipal Sewage Servicing	\$ 29.0	\$ 714,000	\$ 38.9
Option 2 – Inter-Municipal Sewage Servicing	\$ 11.7	\$ 164,000	\$ 13.9
1. Net Present Value (NPV) represents the value of the project in today's dollars. Higher cash outflows, as in Option 1, results in a higher NPV.			n outflows, as in Option 1,

6.3 High-level Assessment

This section presents the results of the high-level assessment completed for the sewage servicing options considered in the Feasibility. Key advantages and disadvantages are summarized in Table 28.

Servicing Option	Advantages	Disadvantages
Option 1 – Intra- Municipal Servicing	 Provides the Township with complete control of the operation and maintenance of the wastewater collection and treatment system. Complete independent system from collection, treatment and discharge/disposal. Township can provide desired level of robustness and flexibility to the system. Provision of municipal sewage servicing (coupled with water servicing) in the area will provide an invitation for developers to invest in the Township and promote growth in accordance with the County Official Plan – population and employment. 	 Results in highest capital, O&M and life cycle costs. Option requires the largest amount of new infrastructure. Assimilative capacity of Mill Creek may limit capacity of treatment plant. An alternative effluent discharge location or method of disposal may be required.
Option 2 – Inter- Municipal Servicing	 Option results in lowest capital, O&M and life cycle costs. Option provides the Township with control of the collection system and operation and maintenance, which is a lower complexity operations requirement. Operations costs for wastewater treatment will be fixed by Agreement 	 It will most likely require an amendment the City of Guelph Official Plan to allow the extension of the City's services for areas outside of the City's urban boundaries. City of Guelph Wastewater Servicing Master Plan would

Table 28: Sewage Servicing Options – High-Level Assessment Results

Servicing Option	Advantages	Disadvantages
	 with the City of Guelph and funded through rates established in the Agreement. May be able to optimize the existing infrastructure (in City of Guelph) and reduce the need for new infrastructure. It may provide an opportunity for the two municipalities (City of Guelph and Township) to partner for funding opportunities and share existing resources. The coordinated approach to service delivery can result in efficiencies in infrastructure costs, water conservation, and allow for additional funds to be allocated to improved treatment and program delivery. Provision of municipal sewage servicing (coupled with water servicing) will provide an invitation for developers to invest in the areas and promote growth in accordance with the County Official Plan – population and employment. 	 need to integrate servicing to the area in Township. Upgrades to existing wastewater infrastructure in Guelph may be required, directly or indirectly, to accommodate the intermunicipal servicing. An inter-municipal agreement will be required to establish an intermunicipal services scheme. The cost of any Capital Contribution and/or Capital Upgrades to secure treatment and disposal from the City of Guelph is unknown at this time and may represent a significant impact to the overall project cost.

7. Overview of Cost Recovery and Funding Opportunities

As part of this Study, potential servicing options for provision of municipal water and sewage services in the Scoped Study Area have been explored, as described in Sections 5 and 6 of this report. However, affordability and issues such as how proposed servicing would be financed, and the potential cost burden on existing businesses and potential future development will need to be established.

A review of different approaches or tools, available to municipalities in Ontario to fund water and sewer servicing has been undertaken to identify 'order of magnitude' cost implications. This section provides a summary of the cost recovery tools that are available to fund the capital works considered under this Feasibility Study.

The estimates of probable costs identified in Sections 5.2 and 6.2 of this report are Preliminary and subject to refinement, should the Project proceed through to a Class EA Study and implementation. A detailed Financial Plan/Cost Recovery plan would be required as part of the Municipal Class EA Study.

7.1 Capital Connection Charges

Costs related to construction may be recovered through Capital Connection Charges, which can be levied under the Municipal Act, for existing businesses benefiting from municipal servicing. Capital Connection Charges are one-time fees imposed on new customers connecting to the municipal system(s) as a condition of service, in addition to any actual cost incurred to physically connect to the system(s). Benefiting owners may be allowed to spread payments over a period of time, typically between 10 to 30 years, depending on the magnitude of the Project and the municipality's debt financing capacity.

Capital Connection Charges may be levied in different ways. Costs may be allocated based on property frontage, property area, or by the number of benefiting units. In addition, different rates may be applied based on land use (i.e. industrial/commercial). These types of charges can be levied against all lands – developed and undeveloped. If Connection Charges are only imposed on developed lands, area-specific Development Charges should be enacted to recover monies from future benefitting lands.

Development Charges would be used to recover of the growth-related portion of the costs. A background study would need to be undertaken in accordance with the Municipal Act, in addition to completion of a public meeting process and passage of the appropriate by-law. Upon Council's direction, a separate background study and by-law will need to be prepared.

The Township does not currently use Capital Connection Charges to fund municipal servicing infrastructure, as existing services in the Scoped Study Area are provided through private and/or communal systems developed as part of the subdivision approval process. However, Capital Connection Charges is a tool commonly used by municipalities in Ontario to recover capital construction costs associated with the establishment or extension of municipal infrastructure to existing developed properties.

7.2 Development Charges

Development charges are fees levied against new development to help cover the initial capital cost of infrastructure required to service growth. Under the Development Charges Act, Municipalities in Ontario are able to recover certain costs associated with non-residential growth.

Municipalities undertake a range of studies to identify servicing needs to accommodate growing populations within the municipalities' boundaries, and use this information to develop their Background Study, Development Charge Bylaw and Development Charge rates.

The Township's current Development Charge By-law (054/14) does not recover any costs associated with provision of municipal water and Wastewater servicing within the Township or within the Scoped Study Area subject to this Feasibility Study. Should the Township proceed with the provision of water and sewage servicing, the Township will need to update their

Development Charge Background Study and consider adopting area-specific development charges for new development within the Scoped Study Area.

7.3 Water and Sewage User Rates

Water and sewer user rates fund the actual operating and routine maintenance costs for the water and wastewater systems, as well as provide funding for future maintenance and ultimate replacement of the infrastructure. Uniform utility rates per Class of users are levied against all users of the system.

In order to define the Water and Sewage Rates, the Township will need to undertake a Rate Study to identify annual operating and maintenance costs as well as the required contributions to the Township's Water and Wastewater reserves.

7.4 Federal and Provincial Grants

Grant funding from senior levels of government are available to assist municipalities in funding capital projects. The Government of Canada will invest more than \$180 billion over 12 years in public transit projects, green infrastructure, social infrastructure, trade and transportation routes, and Canada's rural and northern communities. The Ontario Government is committed to making the largest infrastructure investment in the Province's history – about \$190 billion over 13 years which started in 2014-2015.

Grant funding programs available to local governments for infrastructure projects have their own unique requirements, cost-sharing arrangements, eligibility requirements, and application procedures and deadlines.

Funding Opportunities on a Federal Level include:

• Municipalities for Climate Innovation Program (MCIP): eligible for projects addressing Climate Change Mitigation or Adaption. Applications for the 5-year (2017-2022) funding program will be accepted on a continuous basis.

Funding Opportunities on a Federal / Provincial Bi-Lateral Level include:

 Clean Water and Wastewater Fund (CWWF): Funding is available up to 75% of eligible costs per eligible project (50% federal; 25% provincial). The program targets projects that will contribute to the rehabilitation of both water treatment and distribution infrastructure and existing wastewater and storm water treatment systems; collection and conveyance infrastructure; and initiatives that improve asset management, system optimization, and planning for future upgrades to water and wastewater systems. Phase 1 Round is now closed (Projects to be completed by March 2019). Phase 2 Round is scheduled to be announced in spring 2019. Funding Opportunities on a Provincial Level include:

 Ontario Community Infrastructure Fund (OCIF) which provides steady, long-term funding for small, rural and northern communities to develop and renew their infrastructure. The total fund is increasing to \$300 million per year by 2018-19. This funding includes a Formula-based and a Top-up Application Component. By 2019, the formula-based component will increase to a total allocation of \$200 million annually. Communities will not need to apply for the funding but will need to provide planning and reporting documents to the government to receive the grants. Eligible communities with critical infrastructure projects may submit proposals to the new topup component to bring their total OCIF funding up to \$2 million over 2 years.

A clear and up-to-date understanding of grant funding available to local governments for infrastructure projects and the unique requirements and application process for each program is needed in order to take full advantage of the needed infrastructure dollars available from federal and provincial funds.

7.5 Preliminary Cost Recovery Estimates

To provide a rough order of magnitude for cost recovery estimates, it has been assumed that capital costs will be evenly distributed amongst the total number of benefiting units within the Scoped Study Area, including commercial, industrial and institutional, on an equivalent basis. A total of 128 commercial / industrial lots, or equivalent benefiting units, have been accounted for within the project Scoped Study Area. This preliminary assumption does not distinguish between the usage of the system amongst different users, nor does this assessment consider differences in property size or frontage. A financing annual rate of 4.0% has also been used in the preliminary calculations.

Two cost recovery scenarios have been assumed to provide a preliminary cost estimate, which include:

7.5.1 Scenario A – No Funding

This scenario assumes that all capital costs associated with the servicing options will be recovered entirely by all 128 benefiting units within the Scoped Study Area. A servicing cost per unit is calculated by dividing the capital cost of the option by the total number of units (128). Options are available for benefiting property owners to pay this amount upfront, or to finance the servicing costs over a period of time in an effort to reduce the annual costs. For preliminary calculation purposes, annual payments have been spread over 10, 15 and a 20-year time period.

Preliminary cost recovery estimates under Scenario A – No Funding, for the water and sewage servicing options, outlined in Sections 5.1 and 6.1, are summarized in Tables 29 and 30. Detailed calculations for cost recovery estimates are included in Appendix D.

	Option 1 – Intra-Municipal Water Servicing	Option 2 – Inter-Municipal Water Servicing		
Capital Cost (\$ Millions)	\$ 22.9 M	\$ 19.9 M		
Total Benefiting Units	128	128		
Servicing Cost Per Unit	\$ 179,184	\$ 156,068		
(128 connections)				
Annual Interest Rate	4.0%	4.0%		
	Estimated Annual Cost Per Ur	nit:		
10-Year Period	\$ 21,770	\$ 18,961		
15-Year Period	\$ 15,905	\$ 13,853		
20-Year Period	\$ 13,030	\$ 11,349		

Table 29: Cost Recovery Estimates for Water Servicing: Scenario A – No Funding

 Table 30: Cost Recovery Estimates for Sewage Servicing: Scenario A – No Funding

	Option 1 – Intra-Municipal Sewage Servicing	Option 2 – Inter-Municipal Sewage Servicing		
Capital Cost (\$ Millions)	\$ 29.0 M	\$ 11.7 M		
Total Benefiting Units	128	128		
Servicing Cost Per Unit	\$ 226,848	\$ 91,274		
(128 connections)				
Annual Interest Rate	4.0%	4.0%		
Estimated Annual Cost Per Unit:				
10-Year Period	\$ 27,561	\$ 11,089		
15-Year Period	\$ 20,136	\$ 8,102		
20-Year Period	\$ 16,496	\$ 6,637		

7.5.2 Scenario B – Funding

This scenario assumes that 2/3 of the capital costs associated with the servicing options will be funded through government funds, while the remaining 1/3 of the capital costs will be recovered through all 128 benefiting units within the Scoped Study Area. A servicing cost per unit is calculated by dividing the remaining 1/3 capital cost of the option by the total number of units (128). Annual payments have been spread over 10, 15 and a 20-year time period.

Preliminary cost recovery estimates under Scenario B - 2/3 Funding, for the water and sewage servicing options, outlined in Sections 5.1 and 6.1, are summarized in Tables 31 and 32. Detailed calculations for cost recovery estimates are included in Appendix D.

	Option 1 – Intra-Municipal Water Servicing	Option 2 – Inter-Municipal Water Servicing
Capital Cost (\$ Millions)	\$ 22.9 M	\$ 19.9 M
Subsidized Cost (\$ Millions)	\$ 7,645,167	\$ 19,976,700
Total Benefiting Units	128	128
Servicing Cost Per Unit (128	\$ 59,728	\$ 52,023
connections)		
Annual Interest Rate	4.0%	4.0%
Estimated Annual Cost Per Unit:		
10-Year Period	\$ 7,257	\$ 6,320
15-Year Period	\$ 5,302	\$ 4,618
20-Year Period	\$ 4,343	\$ 3,783

Table 31: Cost Recovery Estimates for Water Servicing: Scenario B – 2/3 Funding

Table 32: Cost Recovery Estimates for Sewage Servicing: Scenario B – 2/3 Funding

	Option 1 – Intra-Municipal Sewage Servicing	Option 2 – Inter-Municipal Sewage Servicing
Capital Cost (\$ Millions)	\$ 29.0 M	\$ 11.7 M
Subsidized Cost (\$ Millions)	\$ 9,678,860	\$ 3,894,360
Total Benefiting Units	128	128
Servicing Cost Per Unit	\$ 75,616	\$ 30,425
(128 connections)		
Annual Interest Rate	4.0%	4.0%
Estimated Annual Cost Per Unit:		
10-Year Period	\$ 9,187	\$ 3,696
15-Year Period	\$ 6,712	\$ 2,701
20-Year Period	\$ 5,499	\$ 2,212

7.5.3 System Connection Costs

In addition to the above noted costs, industrial and commercial businesses would be required to construct private water services and sanitary building drains to connect to the municipal services on the road right-of-way.

Extension of water and wastewater services on private property is controlled under the Building Code Act. Each property connecting to the municipal system would need to obtain a plumbing permit prior to undertaking the work. This cost of extending provides water and sanitary services will vary based upon a number of factors, including:

- Proximity of the connection from the building to the connection to the street
- Restoration requirements (i.e. turf areas, driveways, walkway, landscaping, etc.)

- Competitive pricing including the reputation, experience and quality of work of the contractor
- Any other improvements, such as the removal of existing groundwater wells, septic systems, which may be made at the same time the work is being done.
- Neighbours collectively retaining the same contractor to undertake the works at the same time.

For a typical industrial/commercial property, completion of the private water service and sanitary service will typically cost in the order of \$10,000 - \$15,000 per property; however, the actual costs will be subject to the building locations to be serviced on their respective properties.

As noted earlier in this report, the Feasibility Study has assumed that all existing private groundwater wells within the Scoped Study Area will be decommissioned and disconnected from the individual plumbing system to prevent cross connections with the municipal system. Well decommissioning is regulated under the Ontario Water Resources Act and must be completed in accordance with O. Reg. 903.

Consistent with the Act, private property owners that are required to decommission their well should use a licensed well contractor. The County of Wellington through its Rural Water Quality Program provides financial assistance to qualified landowners that apply best management practices that improve and protect ground and surface water quality; which include well decommissioning. The program is administered by the Grand River Conservation Authority. A formal application would need to be completed and is to be evaluated by a committee on the basis of the potential to improve and protect water quality. Grant rates for well decommissioning cover 100 per cent of the cost, up to a maximum of \$2,500. More information is available at https://www.grandriver.ca/en/our-watershed/Wellington.aspx.

8. Public Communication and Consultation

Public communication and consultation initiatives will be implemented in the Feasibility Study with the objective of gathering preliminary input from the users within the Scoped Study Area on the general intent of the study as well as the preliminary results of the key activities completed as part of the study.

8.1 Public Information Centre

A formal Public Information Centre (PIC) is scheduled on June 24, 2019 at the Puslinch Community Centre, in Puslinch, from 6:30 p.m. to approximately 8:30 p.m.

CIMA's Project Manager, will provide the main presentation and covered the following topics:

- Need for the Feasibility Study
- Limits of the Scoped Study Area
- Purpose of PIC

- Preliminary growth projections
- High-level water and sewage servicing options considered in the study
- Results of a preliminary assessment of high-level water and sewage servicing options
- Next steps in the study.

9. Summary and Recommendations

Population and employment growth within the Scoped Study Area have been established consistently with the projections set out in the County's Official Plan. The majority of growth will be directed to urban centres that offer municipal water and sewer servicing and, to a limited extent, to the surrounding areas that offers partial, private communal or individual on-site services. Growth will also be directed, to a lesser extent, to secondary agricultural areas, provided that the planning policies for these areas are met.

An analysis of the water demands was undertaken with a reasonable amount of background data for existing water demands within the Scoped Study Area. Reasonable water demand rates for existing users were then developed and used to estimate preliminary water use projections based on the population projections outlined within the County's Official Plan. MECP Design Guidelines for Drinking Water Systems, 2008, were also used to validate and supplement any missing information.

For sewage flows, there was no background data available. As such, theoretical numbers based on MECP Design Guidelines for Sewage Works, 2008, were assumed. Potential Industrial/Commercial/Institutional growth areas were identified and a theoretical population density (typical for many GTA and southwestern Ontario areas) was applied to such areas. Sewage flow projections also include an allowance for infiltration into the collection system. For the purpose of this study, we assumed full development of the potential Employment land areas within the 20-year horizon.

Two potential high-level water and sewage servicing options for the Scoped Study Area were identified to include Option 1 – Intra-Municipal Water or Sewage Servicing, and Option 2 – Inter-Municipal Water or Sewage Servicing. Option 2 for water and sewage servicing, consists of reliance on the Guelph water and sewage system for treatment and disposal (in the case of sewage servicing), and therefore will require the appropriate inter-municipal servicing agreements. Preliminary discussions with staff from the City of Guelph have indicated that the City would be open to discussions necessary to establish an inter-municipal servicing agreement; however, no terms and/or conditions have been identified at this stage. The Township Council would need to submit a formal request to the City of Guelph to initiate formal consideration of this Option. There are more servicing design options that should be considered (i.e. alternative locations and routing for facilities); however, the basic options and assessments outlined in this report remain valid.

On a preliminary basis and from an economic impact perspective, it appears that the Inter-Municipal servicing options for both water and sewage servicing would be preferred. However, recent correspondence from the City of Guelph indicates that there is limited available capacity in the Guelph systems to provide servicing to the Township, and that significant Capital Upgrades would be required. The initial assessment would have to be re-visited once formal discussions and negotiations proceed with the City of Guelph, and once the impacts of any Capital Contributions, Capital Upgrades, and user rates are identified.

Preliminary cost recovery estimates have been calculated based on high-level estimates of probable capital costs for the servicing options and two different cost recovery scenarios explored as part of this Feasibility Study, which include no funding and a funding mechanism through government funds.

On a preliminary basis, it appears that implementation of any of the servicing options without any government funds would create a financial burden on the benefitting property owners. In addition, industrial and commercial businesses would be required to cover system connection costs as well, which are unknown at this point. In the end, the selected cost recovery option should be based on consultation between property owners and the municipality and is influenced by the length of time required to fully fund the infrastructure works.

Various funding opportunities from both federal and provincial levels of government are available and should be explored in the future to provide a more accurate estimate of the costs.

The Township is undertaking the Mill Creek Monitoring Program, which monitors historical groundwater elevations throughout the Township. It is suggested that the groundwater monitoring program be expanded to include groundwater quality monitoring within the Scoped Study Area, to identify if the existing private wastewater disposal systems are impacting the groundwater quality. The results of this study could be used to validate whether provision of municipal servicing to the entire Scoped Study Area is the best approach from a source protection perspective.



Appendix A

Water Demand and Sewage Flow Analysis – Design Calculations





Project Title:	Puslinch Water and Sewage Feasibility Study		
Client:	Township of Puslinch		
Project No.:	T000866A		
Task:	Option Development - Water		
Prepared By:	Alexandra Laleva	Date:	18-Apr-19
Reviewed by:	Stuart Winchester	Date:	2-May-19
Revision No. :		Revision Date:	

ESTIMATE WATER DEMANDS FOR WHOLE STUDY AREA

Design Criteria				
Description	Value	Units	Comments	
MECP Residential Unit Rate	270-450	L/cap/day	MECP suggested range	
	353.0	L/cap/day	Calculated for Meadows of Aberfoyle	
Calculated for Ex. Communual Systems	294.4	L/cap/day	Calculated for Mini Lakes	
Recommended Design Rate	360.0	L/cap/day	Assumed (mid-point from MECP range of 270-450 L/cap/day)	
Residential Max. Day Factor	2.00	-	Based on future residential and employment population of 5,632 as per adjacent numbers and MECP Guidelines	
Safety factor for ICI future conditions	1.00		Assumed	
Industrial/Commercial Max. Day Factor	3.00	-	Assumed based on MECP range between 2 and 4 for industrial uses.	

Employment Forecast¹

• •			
Employment Breakdown	2016	2041	Comments
Primary	116	114	
Work at Home	477	560	
Industrial	2224	3360	55% of the Total employment in 2016
Commercial / Population Related	653	866	
Institutional	138	182	
NFPOW	412	548	
Total =	4020	5630	Total employment projections consistent with County's OP numbers.
Notes:			

1. As per breakdown provided by County of Wellington. Source: Watson & Associates Economists Ltd. Wellington County 2014 Growth Analysis Final Report.

			Existing (2016) I Water Der		Future (2041) Employment Water Demands			
Employment Population within Study Area	Year		Ave.		Ave.	Ave. Max.		
	2016	2041	m³/d	L/s	m³/d	L/s	m³/d	L/s
Employment ¹	1796	3406	646.6	7.48	1226.2	14.19	2452.3	28.3
Total for Study Area =	1,796	3,406	646.6	7.5	1226.2	14.2	2,452	28.4
Total Employment Population Increase =	1,610							
Notes:								

Employment Water Demands - Existing and Future (Assumes all employment including industrial employment numbers)

			Existing (2016) I Water Der		Future (2041) Employment Water Demands			
Employment Deputation within Study Area	Year		Ave.	Ave. Ave.		Ma	Max.	
Employment Population within Study Area	2016	2041	m³/d	L/s	m³/d	L/s	m³/d	L/s
Employment ¹	4020	5630	1447.2	16.75	2026.8	23.46	4053.6	46.92
Total for Study Area =	4,020	5,630	1447.2	16.8	2026.8	23.5	4,054	46.9
Total Employment Population Increase =	1,610			·				
Notes:								

1. Assumes all employment categories including industrial

Industrial and Commercial Water Demands - Existing and Future

			ng (2016) Demands ¹	Future (2041) ICI Water Demands ²						
Large Industrial/Commercial Users	РТ	TW Capacity		A	ve.	A	Ave.		Max.	
	L/d	m³/d	L/s	m³/d	L/s	m³/d	L/s	m³/d	L/s	%
Royal Canin Canada Company	240,000	240	2.8	93.8	1.1	93.8	1.1	240.0	2.8	39%
Con-Cast Pipe Inc.	450,000	450	5.2	245.3	2.8	245.3	2.8	450.0	5.2	55%
Morguard Brock McLean Limited - Maple Leaf Foods	653,760	654	7.6	21.6	0.2	21.6	0.2	64.8	0.7	3%
Nestle Canada Inc.	3,600,000	3,600	41.7	2,117.7	24.5	2,117.7	24.5	3,600.0	41.7	59%
CRH Canada Group Inc Dufferin Aggregates	8,182,800	8,183	94.7	134.6	1.6	134.6	1.6	403.8	4.7	2%
Capital Paving Inc.	18,371,400	18,371	212.6	280.9	3.3	280.9	3.3	842.6	9.8	2%
St. Marys Cement Inc. (Canada)	47,136,000	47,136	545.6	28,136.5	325.7	28,136.5	325.7	47,136.0	545.6	60%
Total for Study Area =	78,633,960	78,634	910.1	31,030	359.1	31,030.3	359.1	52,737.1	610.4	39%
Total Excluding Nestle & St. Marys	27,897,960	27,898	323			776.1	9.0	2,001.1	23.2	

Notes:

1. Calculated as the 2-year average between data provided from ex. large users for period between 2015 and 2016.

2. It has been assumed that future water demands from large users will remain consistent with actual demands.

WATER DEMANDS SUMMARY - 2041								
	Scenario I (Only Domestic Use for Residential)				Scenario II (Only Domestic Use for Residential + Total Employment			
Service Area	Ave. Day D	emands	Max. Day	Demands	Ave. Day D	. Day Demands Max. Day Demand		
	m³/d	L/s	m³/d	L/s	m³/d	L/s	m³/d	L/s
Industrial / Commercial / Recreational	0.0	0.0	0.0	0.0	2,026.8	23.5	4,053.6	46.9
Total =	0	0.0	0.0	0.0	2,027	23.5	4,053.6	46.9
				150 mm pipe				300 mm pipe

	Scenario III (Doi	Scenario III (Domestic, and Industrial Uses based on current demands)				Scenario IV (Domestic and Industrial Uses based on PTWW capacity)				Scenario V (Domestic and Industrial Uses - Excluding Nestle and St. Marys Cement)		
Service Area	Ave. Day D	emands	Max. Day	Demands	Ave. Day I	Demands	Max. Day	Demands	Ave. Day	Demands	Max. Day	Demands
	m³/d	L/s	m³/d	L/s	m³/d	L/s	m³/d	L/s	m³/d	L/s	m³/d	L/s
Industrial / Commercial / Recreational	32,256.4	373.3	55,189.4	638.8	48,937.0	566.4	81,086.3	938.5	2,002.3	23.2	4,453.4	51.5
Total	= 32,256	373.3	55,189	638.8	48,937	566.4	81,086	938.5	2,002	23.2	4,453	51.5
				600 mm pipe				min. 900 mm pipe				

RECOMMENDED SCENARIO:

Provide servicing to entire service area for domestic and ICI purposes. Nestle and St. Mary's Cement to be excluded; however, a 0.1% allocation of total PTTW flows have been assumed for domestic purposes in both Nestle and St. Marys.

Industry Name	PTTW Caj	pacity	0.1% Allocation for Domestic		
	m3/d	L/s	m3/d	L/s	
Nestle Canada Inc.	3,600	41.7	3.60	0.04	
St. Marys Cement Inc. (Canada)	47,136	545.6	47.14	0.55	

RECOMMENDED SCENARIO:

Provide servicing to entire service area for domestic and ICI purposes. The use of process water for the large industrial users to be excluded; however, a 15% allocation of total PTTW flows have been assumed for domestic purposes for large Industrial/ Commerical/ Recretational users (excluding Nestle and St. Mary's).

	PTTW Caj	pacity	15% Allocation for Domestic		
Industry Name	m3/d	L/s	m3/d	L/s	
Industrial / Commercial / Recreational (large users excluding Nestle and St. Mary's)	776	9.0	116.42	1.35	

	Scenario V (Dome	stic and Industr St. Marys (ling Nestle and				
Service Type	Ave. Day D	emands	Max. Day	Demands	Peak Hour Demands		
	m³/d	L/s	m³/d	L/s	m³/d	L/s	
Industrial / Commercial / Recreational (outside large users)	1,226.2	14.2	2,452.3	28.4	3,678.5	42.6	
Industrial / Commercial / Recreational (large users excluding Nestle and St. Marys)	116.4	1.3	300.2	3.5	349.2	4.0	
Allowance for Domestic Use at Nestle and St.							
Marys	50.7	0.6	152.2	1.8	152.2	1.8	
Total =	1,393	16.1	2,905	33.6	4,180	48.4	

Project Title:	Puslinch Water and Sewage Feasibility Study	
Client:	Township of Puslinch	
Project No.:	T000866A	
Task:	Option Development - Water Option 1A - Intra-Municipal Servicing	
Prepared By:	Alexandra Laleva	Date: 18-Apr-19
Reviewed by:	Stuart Winchester	Date: 2-May-19
Revision No. :		Revision Date:

Option 1A - Intra-Municipal Servicing

Key Components:

Water supply - Assumes one new groundwater well

One common treatment facility providing treatment for well water. Assume good water quality requiring treament for disinfection only.

Storage facility - assumes one elevated water tower. To be located south of Aberfoyle and close to ex. industrial/employment area.

Distribution system - Assumes connection to Guelph distribution system around southern boundary for pressure Zone 3.

1. System Design Demands	System Design Demands					
Desime Demonde	Unit	Units				
Design Demands	m3/d	L/s				
Average Day Demands	1,393.3	16.1				
Max. Day Demands	2,904.7	33.6				
Peak Hour Demands	4,179.9	48.4				
Calculated Max. Day Factor	2.1	2.1				
Peak Hour Factor	3.0)				

2. Well Supply			
Criteria	Value	Units	Comments
Required Supply Demand (System Max. Day Demands)	33.6	L/s	
No. wells (assumed)	1.0		Assumes two wells, based on capacity
Well Capacity (each)	33.6	L/s	
No. of well pumps	1.0		_
Capacity of well pump (each)	33.6	L/s	

2. Treatment Facility - Provision of disinfection only assumed							
Criteria	Value	Units	Comments				
Required Treatment Demand (System Max. Day Demands)	33.6	L/s					
No. chlorine contact chambers (assumed)	1.0		Assumes only one contact chamber providing full treatment capacity				
Tratment capacity of contact chamber	33.6	L/s					

3. Storage Facility - Storage through an Eleva	ted Water Tower		
3.a Storage Calculations based on Risk Analy	sis for Emergend	cy Storage (no f	ire protection)
Criteria	Value	Units	Comments
Emergency Storage Volume			Emergency storage volume equivalent to 2 x full day's demand
System Ave. Day Demands	16	L/s	- -
	1,393 m3/d		_
Calculated Emergency Volume	2,787	m3	
3.b Storage Calculations based on MECP Gui	delines (fire prote	ection provided	
Criteria	Value	Units	Comments
Minimum Required Storage Volume			Fire Storage + Equalization Storage (25% of Max. Day) + Emergency Storage (25% of Fire + Equalization Storage)
System Max . Day Demands	2,905	m3/d	_
Fire Storage	1,145	m3	Fire storage based on ultimate euiqvalent population of 5632 people. Based on fire flow of 159 L/s for 3 hours as per MOE guidelines Table 8-1 (value interpolated)
Equalization Storage	726	m3	
Emergency Storage	467.7	m3	-
Minimum Required Storage Volume as per MOECC	2,339	m3	Separate chlorine contact chambers will provide the required disinfection requirements
	2.3	ML	

Criteria	Value	Units			Comments						
System Max . Day Demands	34	L/s	-								
Assumed Watermain Diameter	300	mm									
Assumed Watermain Diameter	12	inches									
Calculated Velocity	0.48	m/s	Valaaity should be lower than 1.5 m/s								
From Elevated Tower to Business Areas	0.46	111/5	Velocity should be lower than 1.5 m/s								
Criteria	Value	Units			Comments						
System Peak Hour Demands	Value										
	48	L/s	-								
System Max . Day Demands	34	L/s	- Assumes fire	flow of 159 L/s for	r 3 hours as per MOE guidelines Table 8-1 (value						
System Max . Day + Fire Demands	193	L/s			etween max. day + fire & Peak hour						
Accumed Wetermain Diameter	300	mm									
Assumed Watermain Diameter	12	inches									
Calculated Velocity				ld be lower that t	5 m/c						
From Guelph/treatment facility to New Elevate	2.73 d Tower in Aber	m/s	velocity shou	ld be lower than 1	S/III 6.						
Criteria	Value		Units		Comments						
	mm	400	300	200	Note that future watermains in south Guelph expected						
Set watermain diameter of	m	0.40	0.30	0.20	to be 400 mm diameter						
					Approx. distance from current upper boundary of						
ength of distribution watermain	m	5,400	5,400	5,400	Guelph Zone 3 @ Clair Road West to proposed location of new ET in Aberfoyle.						
Pipeline Area	m2	0.126	0.071	0.031	location of new ET in Abenoyle.						
Pipeline Volume	m3	678.6	381.7	169.6							
System Ultimate Average Daily Flow	L/s	16.1	16.1	16.1	1						
System Ultimate Max. Daily Flow	L/s	33.6	33.6	33.6	-						
System Ultimate Peak Hour Flow	L/s	48.4	48.4	48.4	-						
System Max. day + Fire Flow	L/s	192.6	192.6	192.6							
√elocity under Average Flows	m/s	0.1	0.2	0.5	7						
/elocity under Max. Flows	m/s	0.3	0.5	1.1	Chose 300 mm mainly to be consistent with fire flows						
Velocity under Peak Hour Flows	m/s	0.4	0.7	1.5							
/elocity under Max. day + Fire flows	m/s	1.53	2.73	6.13							
Retention Time under Ultimate Average Flows	hrs	11.7	6.6	2.9							
Retention Time under Max. Flows	hrs	5.6	3.2	1.4							
From New Elevated Tower in Aberfyole to Indu			012								
Criteria	Value	Units			Comments						
	mm	500	400	300							
Set watermain diameter of	m	0.50	0.40	0.30	Approx longth for moley industrial/any longer in						
ength of distribution watermain	m	6,300	6,300	6,300	Approx. length for major industrial/employment area south of Aberfoyle						
Pipeline Area	m2	0.196	0.126	0.071							
Pipeline Volume	m3	1237.0	791.7	445.3							
System Ultimate Average Daily Flow	L/s	16.1	16.1	16.1							
System Ultimate Max. Daily Flow	L/s	33.6	33.6	33.6							
System Ultimate Peak Hour Flow	L/s	48.4	48.4	48.4							
System Max. day + Fire Flow	L/s	192.6	192.6	192.6							
/elocity under Average Flows	m/s	0.08	0.13	0.23							
/elocity under Max. Flows	m/s	0.17	0.27	0.48							
Velocity under Peak Hour Flows	m/s	0.25	0.38	0.68							
/elocity under Max. day + Fire flows	m/s	1.0	1.5	2.7	Chose 300 mm to satisfy max. day + fire flow conditions in major industrial/employment area						
Retention Time under Ultimate Average Flows	hrs	21.3	13.6	7.7							
Retention Time under Max. Flows	hrs	10.2	6.5	3.7	-						

Project Title:	Puslinch Water and Sewage Feasibility Study	
Client:	Township of Puslinch	
Project No.:	T000866A	
Task:	Option Development - Wastewater	
Prepared By:	A. Laleva	Date: 29-A
Reviewed by:	S. Winchester	Date: 10-M
Revision No. :		Revision Date:

ESTIMATE WATER DEMANDS FOR WHOLE STUDY AREA

Design Criteria			
Description	Value	Units	Comments
Water Unit Consumption Rate	360.0	L/cap/day	Assumed
Wastewater Flow Rate	360.0	L/cap/day	Assumed to be consistent with water consumption - Very conservative
Peak Infiltration / Inflow Rate for Industrial / Commercial Areas	10,110	L/ha/day	Low end of MECP Guidelines, new system should have low I&I contribution
Population densities for Industrial / Commercial	83	norcon/ha	Assuming 30 m3/ha/d (low end of MOECC Guideline) and 360 L/cap/d, this w to approx. 83 ppha.
Peak Factor	varies	-	Calculated for each area based on Harmon Formula

Industrial and Commercial Wastewater Flows - Existing (2016)

Industrial and Commercial Wastewater Flows -	Existing (2016)								
						Existing ICI	Wastewater Flows		
	Draina	ge Area	Equivalent ICI		Average Flow (fo	or Treatment)	Peak Flows		
Large Industrial/Commercial/Recreational Users	TotalContributingPopulationCalculatedTotalContributingPeak Factor					(for Sewer Capacity)			
	На	На	people		m³/d	L/s	m³/d	L/s	
Within Aberfoyle	2,435	48.4	4,020	3.33	1,447.2	16.75	4,821.2	83.82	
Total for Study Area =	2,435	48.4	4,020	3.3	1,447	16.7	4,821	83.8	

Notes:

1.Includes all employment categories including industrial.
 2.Euture average day flows for large users assume a unit generation rate of 360 L/cap/cay.
 3.Euture peak day flows assume an I&I rate of 10,110 L/ha/d and peak factor calculated based on Harmon Formula.
 4.Includes existing gravel extraction areas that are excluded from current infiltration allowance calculations

						Future ICI Wa	stewater Flows		
	Draina	Drainage Area							
ge Industrial/Commercial/Recreational Total Contributing Population Calculated rs Peak Factor	Average Flow (f	or Treatment)	Peak Flows (for Sewer Capacity)						
	На	На	people		m³/d	L/s	m³/d	L/s	
Vithin Aberfoyle	2,435	67.8	5,630	3.20	2,026.8	23.46	6,479.4	82.93	
Total for Study Area =	2,435	2,435	5,630	3.2	2,027	23.5	6,479	82.9	

3.Euture peak day flows assume an I&I rate of 10,110 L/ha/d and peak factor calculated based on Harmon Formula. 4.Includes existing gravel extraction areas that are excluded from current infiltration allowance calculations

ICI FLOWS SUMMARY - 2041					
Service Area	Average Flow	(for Treatment)	Peak Flows (for Sewer Capacity)		
	m³/d	L/s	m³/d	m³/d	
Industrial / Commercial / Recreational	2,027	23.5	6,479.4	82.9	

9-Apr-19 0-May-19

would equeate

83.82	
83.8	



Appendix B Probable Costs Estimates – Detailed Calculations





Project Title:	Puslinch Water and Sewage Feasibility Study	
Client:	Township of Puslinch	
Project No.:	T000866A	
Task:	Water Servcing Option Development - Option 1 Probable Cost	
Prepared By:	Alexandra Laleva	Date: 18-Apr-19
Reviewed by:	S. Winchester	Date: 2-May-19
Revision No. :	1	Revision Date:

CAPITAL AND OPERATION & MAINTENANCE COST

			Mate Unit Cost		rial		Labour			Total Material			
System Description	Quantity	Unit			Total Material Cost		% of Material	% of Material			Labour	Sub Total Cost	Comments
pply and Treatment													
Preliminary Studies and Approvals - hydrogeological study and testing	1	LS	\$	500,000	\$	500,000	50%	\$	250,000	\$	750,000		
Construction of new production wells (assumed 2), equipped with well pumps	1	LS	\$	150,000	\$	150,000	50%	\$	75,000	\$	225,000		
New treatment facility (assumes 15mx10m footprint)	150	m2	\$	2,000	\$	300,000	50%	\$	150,000	\$	450,000		
Piping, valves and fittings	1	LS	\$	50,000	\$	50,000	50%	\$	25,000	\$	75,000		
Instrumentation	1	LS	\$	35,000	\$	35,000	30%	\$	10,500	\$	45,500		
Sodium Hypoclorite System - disinfection	1	each	\$	50,000	\$	50,000	30%	\$	15,000	\$	65,000		
Electrical (standby diesel generator, service entrance, control panels, motor starters, controls and automation)	1	LS	\$	450,000	\$	450,000	50%	\$	225,000	\$	675,000		
Mechanical (HVAC system, lighting)	1	LS	\$	75,000	\$	75,000	50%	\$	37,500	\$	112,500		
Site Works (includes site grading, excavation, trenching, backfilling)	1	LS	\$	250,000	\$	250,000	50%	\$	125,000	\$	375,000		
Contact Chambers for disinfection	1	LS	\$	250,000	\$	250,000	50%	\$	125,000	\$	375,000		
Other site works (watermains, driveway, fences, gates, sodding, etc.)	1	LS	\$	100,000	\$	100,000	50%	\$	50,000	\$	150,000		
Power upgrades to 3 phase	1	LS	\$	75,000	\$	75,000	50%	\$	37,500	\$	112,500		
Property acquisition - treatment facility	1.0	acres	\$	300,000	\$	300,000		\$		\$	300,000		Assumed \$300,000/acre as per info provide by rea state agent in Puslinch.
Property acquisition - storage facility	1.00	acres	\$	300,000	\$	300,000		\$	-	\$	300,000		Assumed \$300,000/acre as per info provide by rea state agent in Puslinch.
Sub-total Capital Cost for New Well Pump =												\$ 4,010,500	
orage and Distribution System													
New Elevated water tower (2,500 m3)	1	LS		3,500,000		3,500,000	incl				3,500,000		Provided by M. Elliott
300 mm diameter watermain	11,700	m	\$	710	\$	8,307,000	incl			\$	8,307,000		Measured from GIS
						Sub-tota	al Capital Cost	for	Connecting	g Wa	termain =	\$ 11,807,000	
					SU	B-TOTAL C	APITAL COST	IN C	CURRENT	YEA	R (2018) =	\$ 15,817,500	
									Contin	geno	cy (20%) =	\$ 3,163,500	
							Engineer	ing a	and Constru	uctio	on (15%) =	\$ 2,372,700	
								Cont	tractor Ove	rhea	ad (10%) =	\$ 1,581,800	
						TOTAL C	APITAL COST	IN C	CURRENT	YEA	R (2018) =	\$ 22,935,500	

Area	Item	QTY	Unit	Unit Co	ost (\$)	Annua	l Cost	Subtotal	Comments
Pumping Cost	Well Pumps Annual Electrical Cost	Ś 1	LS	\$ 1	15,000	\$ 1	0,000		
					b-Total \			\$ 10,000	
	NaOCI at new well pump								
Chemical Systems	facility for primary								
Chemical Systems	disinfection	\$ 1	LS	\$	5,000	\$	5,000		
				Sub-Tota	I Chemi	cal Syst	ems = 🔅	\$ 5,000	
	Equipment maintenance,								
	contracts and								
	agreements	1	LS	Ś 3	30,000	Ś 3	0,000		
Miscellaneous O&M	Pumps parts and								
	replacement, materials,								
	for new facility	1	LS	\$ 1	15,000	\$ 1	5,000		
			Sub-Tot	al Regula	atory Re	quirem	ents =	\$ 45,000	
Labour	Labour								Assumed that Town will retain an Operating Agency to operate the system on
Labour		1	LS	\$ 35	50,000	\$ 35	0,000		their behalf. High-level cost provided by OCWA in email on February 20, 2018.
			Sub-Tot	al Regula				\$ 350,000	
Regulatory Requirements	Lab and reporting	1	LS		10,000		0,000		
Regulatory Requirements			Sub-Tot	al Regula	atory Re	quirem	ents =	\$ 10,000	
		т	OTAL O&M COS	T IN CUR	RENT	EAR (2	2018) = 3	\$ 420,000	
					Conting	gency (2	20%) = \$	\$ 84,000	
		т	OTAL O&M COS						

LIFE	CYCLE	COST

roject Title: lient: roject No.:	Puslinch Water and Sewage Feasibility Stu Township of Puslinch T000866A				
ask:	Water Servcing Option Development - Option	1 Probable Cost			
Prepared By:	Alexandra Laleva			Date:	18-Apr-19
eviewed by:	S. Winchester			Date:	2-May-19
evision No. :	2			Revision Date:	
IFE CYCLE COST					
Option 1A - Intra-Municipal	System				
conomic Factors					
Interest rate (%)	6%				
Inflation rate (%)	2.0%				
Project Start Year (Year n					
Planning Period (yrs)	20				
Cost in Year n = Cost in Curre	ent Year x (1+inflation Rate)^(Year n - Curr	ent Year)			
resent Value = Cost /((1+Int	erest Rate)^(Year n - Current Year))				
		20	D-Year NPV		
Year	Capital Cost	NPV Capital Cost	Operating Cost	NPV Operating Cost	Capital and Operating NPV
2018	\$22,935,500		\$504,000		
2010	\$0		\$0		
2020	\$23,862,094	\$21,237,179	\$524,362	\$466,680	\$21,703,859
2021	\$0	\$0	\$534,849	\$449,069	\$449,069
2022	\$0	\$0	\$545,546	\$432,123	\$432,123
2023	\$0	\$0	\$556,457	\$415,817	\$415,817
2024	\$0	\$0	\$567,586	\$400,126	\$400,126
2025	\$0	\$0	\$578,938	\$385,027	\$385,027
2026	\$0	\$0	\$590,516	\$370,497	\$370,497
2027	\$0	\$0	\$602,327	\$356,516	\$356,516
2028	\$0	\$0	\$614,373	\$343,063	\$343,063
2029	\$0	\$0	\$626,661	\$330,117	\$330,117
2030	\$862,404	\$428,589	\$639,194	\$317,660	\$746,248
2031	\$0	\$0	\$651,978	\$305,673	\$305,673
2032	\$0	\$0	\$665,017	\$294,138	\$294,138
2033	\$0	\$0	\$678,318	\$283,038	\$283,038
2034	\$0	\$0	\$691,884	\$272,358	\$272,358
2035 2036	\$0 \$0	\$0 \$0	\$705,722	\$262,080	\$262,080 \$252,190
2036	\$0	\$0	\$719,836 \$734,233	\$252,190 \$242,674	\$252,190
2038	\$0	\$0	\$748,917	\$233,516	\$233,516
2039	\$0	\$0	\$763,896	\$224,704	\$224,704
2040	\$1,051,266	\$291,732	\$779,174	\$216,225	\$507,956
	Sub-Total NPV value =	\$21,957,499		\$6,853,289	
	Total NPV value (20 years) =		\$28,810,800		\$28,810,800
Capital Cost Breakdown Eve	ry 10 Years :	Cast and 10	Commente		
Vell Pump House		Cost every 10 years	Comments		
uilding envelope, disinfectio quipment =	on system, media regeneration,	\$100,000	Assumed		
Vell rehabilitation (2 wells) =	=	\$80,000	Assumed		
levated Tank (inspection, co	pating, etc.) =	\$500,000			
Total Capital Cost New Well		\$680,000			
	Pump House / 10 years	\$680,000 \$680,000			

		CAPITAL AND OPERATION & MAINTENANCE COST
Project Title:	Puslinch Water and Sewage Feasibility Study	
Client:	Township of Puslinch	
Project No.:	T000866A	
Task:	Water Servcing Option Development - Option 2 Probable Cost	
Prepared By:	Alexandra Laleva	Date: 18-Apr-19
Reviewed by:	S. Winchester	Date: 2-May-19
Revision No. :	1	Revision Date:

CAPITAL AND OPERATION & MAINTENANCE COST

Open method Out Obsit Out Cost Total Material Cost Not Material C			_		Ma	terial	_	La	bour	_	Total Material &	Total Material 9	terial 9		
Connection to as: Guiph distribution system, including metering facility 1 LS \$ 250,000 \$ \$ 125,000 \$ 375,000 Assumed by Shadringuer Assumed SMADQUere aper MP and apprent in Rulaindin. Preseure Control Station 0.5 acree \$ 300,000 \$ \$ 5 500,000 \$ Assumed by Shadringuer apprent in Rulaindin. Properly acquiption - Pressure Control station 0.5 acree \$ 300,000 \$ \$ - \$ 300,000 Assumed SMADQUERCE aper MP and apprent in Rulaindin. Properly acquiption - Pressure Control station 1.0 acree \$ 300,000 \$ \$ 300,000 \$ \$ 300,000 \$ \$ 300,000 \$ \$ 300,000 \$ \$ 300,000 \$ \$ 300,000 \$ \$ 300,000 \$ \$ 300,000 \$ \$ 300,000 \$ \$ 300,000 \$ \$ 300,000 \$ \$ 300,000 \$ \$ 300,000 \$	System Description	Quantity	Unit	•	Unit Cost	Total Mater	rial Cost	% of Material					Sub Total Cost	Comments	
facility 1 LS 8 200,000 6 yrs 8 212,000 8 375,000 Assumed 59,360/agoet Pressure Control station 0.5 arr \$ 100,000 \$ \$ 50,000 \$ S 5 5 5 50,000 Assumed 59,360/agoet Preperly acquisition - storage facility 1.0 arr \$ 300,000 \$ \$ 5 \$ \$ 5 300,000 \$ \$ Assumed 59,300/agoet aper (#0, aper #10,														1	
Pressue Control Station 1 LS \$ 1,000,000 50% \$ 500,000 1,500,000 Assumed by Shothyaez Property acquisition - Pressue Control Station 0.5 acres \$ 300,000 \$ \$ 5 \$ 5 150,000 Assumed by Shothyaez Property acquisition - storage facility 1.0 acres \$ 300,000 \$															
Property acquisition - Pressure Control station 0.5 acres \$ 300,000 \$ 100,000 \$ 00,000											+				
Property acquisition - Pissange Control station 0.0 access \$ 30,000 \$ 10,000 \$ 10,000 opent in Pullation. Property acquisition - storage facility 1.0 access \$ 30,000 \$ \$ 30,000 central station apent in Pullation. Subcolal Capital Cost for New Well Pump 1.0 access \$ 30,000 \$ \$ 30,000 \$ 2.325.00 access \$ 3.300.00 \$ 3.300.	Pressure Control Station	1	LS		\$ 1,000,000	\$ 1,0	00,000	50%	\$ 5	00,000	\$ 1	500,000			
Property acquisition - storage facility 1.0 accoss \$ 300,000 \$ \$ \$ \$ 300,000 ender the facility Subcrist Distribution Image facility Image facility <thimage facility<="" th=""> Image facility Im</thimage>	Property acquisition - Pressure Control station	0.5	acre	s	\$ 300,000	\$ 1	50,000		\$	-	\$	150,000			
Aver Elevation value from (2.00 m3) 1 LS \$ 3,00,000 ind \$ 3,500,000 Provided by M. Ellott 300 mm diameter watermain 11,200 m \$ 7,162,000 ind \$ 7,952,000 ind \$ 7,952,000 kaumes installation in shoulder of n 300 mm diameter watermain 11,200 m \$ 7,162,000 \$ 1,1452,000 kaumes installation in shoulder of n Sub-total Capital Cost for Councing Watermain 12 \$ 11,452,000 \$ 11,452,000 Contingency (20%) = \$ 2,755,400 Engineering and Construction (15%) = \$ 2,056,500 Contractor Overhead (10%) = \$ 1,377,700 TOTAL CAPITAL COST IN CURRENT YEAR (2018) = \$ 1,377,700 TOTAL CAPITAL COST IN CURRENT YEAR (2018) = \$ 1,377,700 TOTAL CAPITAL COST IN CURRENT YEAR (2018) = \$ 1,377,700 TOTAL CAPITAL COST IN CURRENT YEAR (2018) = \$ 1,377,700 TOTAL CAPITAL COST IN CURRENT YEAR (2018) = \$ 1,377,700 TOTAL CAPITAL COST IN CURRENT YEAR (2018) = \$ 1,377,700 TOTAL CAPITAL COST IN CURRENT YEAR (2018) = \$ 1,377,700 TOTAL CAPITAL COST IN CURRENT YEAR (2018) = \$ 1,377,700 TOTAL CAPITAL COST IN CURRENT YEAR (2018) = \$ 1,377,700 Contractor O	Property acquisition - storage facility	1.0	acre	s	\$ 300,000	\$ 3	00,000		\$		\$	300,000		Assumed \$300,000/acre as per info provide by real agent in Puslinch.	
New Elevated water toxer (2,500 m3) 1 LS \$ 3,500,000 ind \$ 3.000,000 Provided by At Elliott 300 mm diameter watermain 11,200 m \$ 7.052,000 ind \$ 7.952,000 Atsumes installation in shoulder of n Sub-total Capital Cost for Connecting Watermain \$ \$ 11,452,000 \$ 13,077,000 Contingerting and Construction (15%) = \$ \$ 3,956,000 Contractor Overhead (16%) = \$ \$ 3,956,000 Contractor Overhead (16%) = \$ \$ 3,956,000 Contractor Overhead (16%) = \$ \$ 3,957,000 Sub-total Well Pumps Annual Comments Electrical Cost \$ 1 LS \$ 10,000 in case they	Sub-total Capital Cost for New Well Pump =												\$ 2,325,000		
300 mm diameter watermain 11.20 m \$ 710 \$ 7.952.000 ind \$ 7.952.000 Assumes installation in shoulder of n Sub-total Capital Cost for Connecting Waternain = \$ 1.1.452.000 Assumes installation in shoulder of n Sub-total Cost in CurRentY YEAR (2016) - \$ \$ 3.077.000 Contingency (2075) - \$ \$ 2.757.000 Contractor Overhead (10%) - \$ \$ 3.977.000 TOTAL CAPITAL COST IN CURRENT YEAR (2016) - \$ \$ 3.977.000 TOTAL CAPITAL COST IN CURRENT YEAR (2016) - \$ \$ 3.977.00 TOTAL CAPITAL COST IN CURRENT YEAR (2016) - \$ \$ 3.977.00 Contingency (2075) + \$ \$ 3.977.00 TOTAL CAPITAL COST IN CURRENT YEAR (2016) - \$ \$ 3.977.00 TOTAL CAPITAL COST IN CURRENT YEAR (2016) - \$ \$ 3.977.00 Contingence (2074) Unit Unit Cost (\$ Annual Cost	orage and Distribution														
Image: Subtrain Control (Source)	New Elevated water tower (2,500 m3)	1	LS		\$ 3.500.000	\$ 3.5	00.000	incl			\$ 3	500.000		Provided by M. Elliott	
Sub-total Capital Cost for Connecting Watermain s [\$ 11,452.00] SUB-TOTAL CAPITAL COST IN CURRENT YEAR (2018) = \$ 12,777,00 Contractor Verbal (2007) = \$ 2,755,400 Contractor Verbal (2007) = \$ 2,757,400 Contractor Verbal (2007) = \$ 2,757,400 Contractor Verbal (2007) = \$ 2,757,400 Contractor Verbal (2007) = \$ 2,757,700 TOTAL CAPITAL COST IN CURRENT YEAR (2018) = \$ 13,976,700 Verbal (2016) = \$ 13,976,700 TOTAL CAPITAL COST IN CURRENT YEAR (2018) = \$ 13,976,700 Verbal (2017) = \$ 1,977,700 TOTAL CAPITAL COST IN CURRENT YEAR (2018) = \$ 13,976,700 Verbal (2017) = \$ 13,976,700 Verbal (2018) = \$ 13,976,700 Verbal (2017) Verbal (2017) Verbal (2017) Verbal (2017) Verbal (2017) Verbal (2017)	300 mm diameter watermain	11.200	m		\$ 710	\$ 7.9	52.000	incl			\$ 7	952.000		Assumes installation in shoulder of road	
SUB-TOTAL CAPITAL COST IN CURRENT YEAR (2016) = \$ 13,77,00 Contingency (2016) = \$ 2,755,400 Contingency (2016) = \$ 2,755,400 Contingency (2016) = \$ 2,755,400 Contractor Overhead (10%) = \$ 1,377,00 Contracticor Overhead (10%) Overhead (10%) Miscilareous O&M Miscilareous O&M Miscilareous O&M Miscilareous O&M								Sub-total Cap	ital Cost	for Cor			\$ 11,452,000		
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Pumping Cost Electrical Cost S 1 LS S 10,000	Area	item	QIT		Unit	Unit Co	st (\$)	Annual Cost	Subi	otai				Comments	
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Miscellaneous O&M Equipment maintenance, contracts and agreements 1 LS \$ 10,000 - Pumps parts and reparts and replacement, materials, for new facility 1 LS \$ 5,000 -<						Sub-Tota	l Chem	ical Systems =	Ś	2.000				· ·	
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Labour 1 LS \$ 5,000 Assumed Sub-Total Regulatory Requirements \$ 5,000 Assumed Benulatory Requirements Lab and reporting 1 LS \$ 2,500 \$ 0,000 Assumed		labour													
Remulatory Requirements Lab and reporting 1 LS \$ 2,500 \$ 2,500	Labour	Laboui	1		LS			\$ 50,000			Assumed				
					Sub-	Fotal Regula	atory Re	equirements =	\$	50,000					
Regulatory Requirements		Lab and reporting	1		LS	\$	2,500	\$ 2,500							
Sub-lotal Regulatory R	Regulatory Requirements = Sub-Total Regulatory Requirements =						atory Re	quirements =	\$	2,500					
TOTAL 0&M COST IN CURRENT YEAR (2018) = \$ 79,500	Regulatory Requirements														
Contingency (20%) = \$ 15,000	Regulatory Requirements				TOTAL O&M CO	OST IN CUE	RENT	YEAR (2018) -	s	79.500					

oject Title: ient:	Puslinch Water and Sewage Feasibility St Township of Puslinch				
oject No.:	T000866A				
ask:	Water Servcing Option Development - Optio	n 2 Probable Cost			
repared By:	Alexandra Laleva			Date:	18-Apr-19
eviewed by:	S. Winchester				8-May-19
evision No. :	2			Revision Date:	
IFE CYCLE COST					
ption 1B - Inter-Municipal	System				
conomic Factors					
Interest rate (%)	6%				
Inflation rate (%)	2.0%				
Project Start Year (Year n) 2020				
Planning Period (yrs)	20				
ost in Vear n = Cost in Curre	ent Year x (1+inflation Rate)^(Year n - Curre	ont Vear)			
		ine reary			
resent Value = Cost /((1+Int	terest Rate)^(Year n - Current Year))				
	1	20	-Year NPV		
Year	Capital Cost	NPV Capital Cost	Operating Cost	NPV Operating Cost	Capital and Operating NPV
2018	\$19,976,700		\$95,400		
2019	\$0		\$0		
2020	\$20,783,759	\$18,497,471	\$99,254	\$88,336	\$18,585,807
2021	\$0	\$0	\$101,239	\$85,002	\$85,002
2022	\$0	\$0	\$103,264	\$81,795	\$81,795
2023	\$0	\$0	\$105,329	\$78,708	\$78,708
2024	\$0	\$0	\$107,436	\$75,738	\$75,738
2025	\$0	\$0	\$109,585	\$72,880	\$72,880
2026	\$0	\$0	\$111,776	\$70,130	\$70,130
2027	\$0	\$0	\$114,012	\$67,483	\$67,483
2028	\$0	\$0	\$116,292	\$64,937	\$64,937
2029	\$0	\$0	\$118,618	\$62,486	\$62,486
2030	\$697,533	\$346,653	\$120,990	\$60,128	\$406,781
2031	\$0	\$0	\$123,410	\$57,859	\$57,859
2032	\$0	\$0	\$125,878	\$55,676	\$55,676
2033	\$0	\$0	\$128,396	\$53,575	\$53,575
2034	\$0	\$0	\$130,964	\$51,553	\$51,553
2035	\$0	\$0	\$133,583	\$49,608	\$49,608
2036	\$0	\$0	\$136,255	\$47,736	\$47,736
2037	\$0	\$0	\$138,980	\$45,935	\$45,935
2038	\$0	\$0	\$141,759	\$44,201	\$44,201
2039	\$0	\$0	\$144,595	\$42,533	\$42,533
2040	\$850,289	\$235,959	\$147,486	\$40,928	\$276,888
	Sub-Total NPV value =	\$19,080,083	620.277.400	\$1,297,230	620 277 400
	Total NPV value (20 years) =		\$20,377,400		\$20,377,400
apital Cost Breakdown Eve	ry 10 Years :	Cont. 0.000	Commente		
Vell Pump House		Cost every 10 years	Comments		
S building envelope, equipn	nent =	\$50,000	Assumed		
	pating.etc.) =	\$500,000			
levated Tank (inspection, co		\$550,000			
levated Tank (inspection, co otal Capital Cost New Well					
	Pump House / 10 years	\$330,000			
otal Capital Cost New Well	al Additional Capital Cost / 10 years =	\$550,000	_		



Statement	of Probable Costs (+/- 35%)	
Wastewater S	Servicing Option 1	
CIMA Project No: Date:	T000866A 10/05/2019	
1.0 Construction		
1.10	Gravity Sanitary Sewer	\$ 5,290,000.00
1.20	Pumping Station	\$ 1,266,000.00
1.30	Forcemains	\$ 1,365,000.00
1.40	Wastewater Treatment	\$ 13,120,000.00
Sub-total		\$ 21,041,000.00
Contingency Allow	ance (@20%)	\$4,208,200.00
Sub-Total - Constr	uction	\$ 25,249,200.00
Engineeering (@ 1	5%)	\$3,787,380.00
Sub-Total - Proje	ct	\$ 29,036,580.00
2.0 Operating and	Maintenance	
2.10	Gravity Sanitary Sewer	\$ 50,000.00
2.20	Pumping Station	\$ 75,000.00
2.30	Forcemains	\$ 39,000.00
2.40	Wastewater Treatment	\$ 550,000.00
	Annual Operating and Maintenance Costs	\$ 714,000.00
3.0 20 Year Life Cy	cle Costs	
3.10	Net Present Value - Construction	\$ 29,036,580.00
3.20	Net Present Value - Operating and Maintenance	\$ 9,829,495.20
	Net Present Value - Option 1	\$ 38,866,075.20

Date: Friday, May 10, 2019 Date: Monday, May 13, 2019 Prepared By: A. Laleva Checked By: S. Wincehster, P.Eng.

Puslinch Water and Wastewater Feasibility Study

PRELIMINARY COST ESTIMATE for WASTEWATER SERVICING

PROBABLE COST BREAKDOWN

SECTION 1 - Gravity Sewer System

Item No.	Description	Est. Quantity	Unit	Unit Price	Total Price
1.00	Gravity Sanitary Sewer	8,510			\$5,287,500.00
a)	200mm dia. to 250mm dia.	6,940	Lm	\$500.00	\$3,470,000.00
b)	300mm dia. To 375mm dia.	1,570	Lm	\$750.00	\$1,177,500.00
1.01	200mm dia. Service Connections	128	ea.	\$5,000.00	\$640,000.00

TOTAL SECTION 1

(Transfer to Summary Sheet)

\$5,290,000.00

SECTION 2 - Pump Station

Item No.	Description	Est. Quantity	Unit	Unit Price	Total Price
2.00	Pumping Station (Aberfoyle) Peak flow for 2041 = 83.0 L/s	1	LS	-	\$1,266,000.00
a)	Site acquisition	1	LS	\$200,000.00	\$200,000.00
b)	Inlet chamber	1	LS	\$15,000.00	\$15,000.00
c)	Wet/dry-well	1	LS	\$525,000.00	\$525,000.00
d)	Pumps	3	LS	\$4,500.00	\$13,500.00
e)	Structure	1	LS	\$250,000.00	\$250,000.00
f)	Piping	30	Lm	\$750.00	\$22,500.00
g)	Electrical/Mechanical/SCADA	1	LS	\$150,000.00	\$150,000.00
h)	Civil site works	1	LS	\$90,000.00	\$90,000.00
i)	Operation and Maintenance Cost	1	LS	\$25,000.00	\$25,000.00

TOTAL SECTION 2

(Transfer to Summary Sheet)

\$1,266,000.00

SECTION 3 - Sanitary Forcemain

Item No.	Description	Est. Quantity	Unit	Unit Price	Total Price
3.00	Sanitary Forcemain				
a)	250mm Ø including all appurtenances	2730	m	\$500.00	\$1,365,000.00
	TOTAL SECTION 3 (Transfor to Summary Shoot)				\$1,365,000.00

(Transfer to Summary Sheet)

SECTION 4 - Wastewater Treatment

Item No.	Description	Est. Quantity	Unit	Unit Price	Total Price
4.00	6500m3/day WWTP	6,500	m3	\$1,930.00	\$12,545,000.00
a)	Site Acquisition	1	LS	\$500,000.00	\$500,000.00
b)	Division 1 - General Requirements	1	LS		\$620,000.00
c)	Division 2 - Site Works	1	LS		\$1,130,000.00
d)	Division 3 - Concrete	1	LS		\$3,340,000.00
e)	Division 4 - Masonry	1	LS		\$510,000.00
f)	Division 5 - Metals	1	LS		\$640,000.00
g)	Division 6 - Wood and Plastics	1	LS		\$60,000.00
h)	Division 7 - Thermal and Moisture Protection	1	LS		\$260,000.00
i)	Division 8 - Doors and Windows	1	LS		\$180,000.00
j)	Division 9 - Finishes	1	LS		\$130,000.00
k)	Division 10 - Specialties	1	LS		\$20,000.00
I)	Division 11 - Equipment	1	LS		\$3,570,000.00
m)	Division 12 - Special Construction	1	LS		\$30,000.00
n)	Division 13 - Control and Instrumentation	1	LS		\$390,000.00
o)	Division 14 - Conveying and Hoisting Equipment	1	LS		\$20,000.00
p)	Division 15 - Mechanical	1	LS		\$580,000.00
q)	Division 16 - Electrical	1	LS		\$1,140,000.00
r)	Operation and Maintenance Cost	1	Yr	\$550,000.00	\$550,000.00

TOTAL SECTION 4

(Transfer to Summary Sheet)

\$13,120,000.00

4.01 Appendix B Wastewater Costs - Copy.xlsx



Statement	of Probable Costs (+/- 35%)	
Wastewater S	ervicing Option 2	
CIMA Project No: Date:	T000866A 10/05/2019	
1.0 Construction		
1.10	Gravity Sanitary Sewer	\$ 5,290,000.00
1.20	Pumping Stations	\$ 1,566,000.00
1.30	Forcemains	\$ 1,610,000.00
Sub-total		\$ 8,466,000.00
Contingency Allowa	ance (@20%)	\$1,693,200.00
Sub-Total - Constru	uction	\$ 10,159,200.00
Engineeering (@ 1	5%)	\$1,523,880.00
Sub-Total - Const	ruction	\$ 11,683,080.00
2.0 Operating and I	Maintenance	
2.10	Gravity Sanitary Sewer	\$ 50,000.00
2.20	Pumping Stations	\$ 75,000.00
2.30	Forcemains	\$ 39,000.00
	Annual Operating and Maintenance Costs	\$ 164,000.00
3.0 20 Year Life Cyo		
3.10	Net Present Value - Construction	\$ 11,683,080.00
3.20	Net Present Value - Operating and Maintenance	\$ 2,257,755.20
	Net Present Value - Option 2	\$ 13,940,835.20

Date: Friday, May 10, 2019 Date: Monday, May 13, 2019
 Prepared By:
 A. Laleva

 Checked By:
 S. Wincehster, P.Eng.

Puslinch Water and Wastewater Feasibility Study

PRELIMINARY COST ESTIMATE for WASTEWATER SERVICING

PROBABLE COST BREAKDOWN

SECTION 1 - Gravity Sewer System

Item No.	Description	Est. Quantity	Unit	Unit Price	Total Price
1.00	Gravity Sanitary Sewer	8,510			\$5,287,500.00
a)	200mm dia. To 250mm dia.	6,940	Lm	\$500.00	\$3,470,000.00
b)	300mm dia. To 375mm dia.	1,570	Lm	\$750.00	\$1,177,500.00
1.03	200mm dia. Service Connections	128	ea.	\$5,000.00	\$640,000.00
	TOTAL SECTION 1				

(Transfer to Summary Sheet)

\$5,290,000.00

SECTION 2 - Pump Station

Item No.	Description	Est. Quantity	Unit	Unit Price	Total Price
2.00	Pumping Station (Aberfoyle) Peak flow for 2041 = 83.0 L/s	1	LS	-	\$1,566,000.00
a)	Site acquisition	1	LS	\$200,000.00	\$200,000.00
b)	Inlet chaimber	1	LS	\$15,000.00	\$15,000.00
c)	Wet/dry-well	1	LS	\$525,000.00	\$525,000.00
d)	Pumps	3	LS	\$4,500.00	\$13,500.00
e)	Structure	1	LS	\$250,000.00	\$250,000.00
f)	Piping	30	Lm	\$750.00	\$22,500.00
g)	Electrical/Mechanical/SCADA	1	LS	\$150,000.00	\$150,000.00
h)	Civil site works	1	LS	\$90,000.00	\$90,000.00
i)	Emergency Storage	1	LS	\$300,000.00	\$300,000.00
j)	Operation and Maintenance Cost	1	LS	\$30,000.00	\$30,000.00

TOTAL SECTION 2

(Transfer to Summary Sheet)

SECTION 3 - Sanitary Forcemain

ltem No.	Description	Est. Quantity	Unit	Unit Price	Total Price
3.00	Sanitary Forcemain				
	250mm Ø including all appurtenances	3220	m	\$500.00	\$1,610,000.00
	TOTAL SECTION 3				\$1 610 000 00

(Transfer to Summary Sheet)

\$1,610,000.00

\$1,566,000.00

WATER SERVICING INFRASTRUCTURE AVERAGE UNIT PRICES (2019 - Southwestern Region)

A) Watermain Installation with Minimum Restoration (Top Soil and Seed only) (FOR INSTALLATION IN DITCHES)

	Nom. Pipe	Outer	Depth to	Minimum	Exca	vation	Bed	ding	P	ре	Bad	ckfill	Restoration	Subtotal Unit	Appurtenance	Subtotal Unit	Dewatering	Subtotal Unit	Conting	Eng.	TOTAL (excl.
	Size	Diameter	Invert	Trench Width	Vol.	Cost	Vol.	Cost	Cost	Installation	Vol.	Cost	Allowance	Cost	Allowance	Cost	Allowance	Cost	@20%	@15%	HST)
	(mm)	(m)	(m)	(m)	(m ³)	(\$/m)	(m ³)	(\$/m)	(\$/m)	(\$/m)	(m ³)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)
	100	0.14	2.4	0.74	2.8	16.80	0.44	19.70	24.80	2.48	2.80	14.00	40.00	117.78	59.00	176.78	10	186.78	37.40	33.60	260.00
	150	0.20	2.4	0.80	3.10	18.60	0.52	23.40	38.25	3.83	2.85	14.30	40.00	138.38	59.00	197.38	10	207.38	41.50	31.11	280.00
	200	0.26	2.4	0.86	3.4	20.40	0.61	27.50	63.00	6.30	2.90	14.50	40.00	171.70	64.00	235.70	10	245.70	49.10	36.86	340.00
	250	0.33	2.4	0.93	3.7	22.20	0.73	32.70	91.00	9.10	2.95	14.80	40.00	209.80	67.00	276.80	10	286.80	57.40	43.02	390.00
PVC	300	0.38	2.4	0.98	4.0	24.00	0.81	36.70	124.50	12.45	3.00	15.00	40.00	252.65	80.00	332.65	15	347.65	69.50	52.15	470.00
FVC	350	0.45	2.4	1.05	4.4	26.40	0.94	42.60	279.00	27.90	3.00	15.00	40.00	430.90	85.00	515.90	15	530.90	106.20	79.64	720.00
	400	0.50	2.4	1.10	4.5	27.00	1.04	47.10	312.00	31.20	3.05	15.30	40.00	472.60	103.00	575.60	15	590.60	118.10	88.59	800.00
	450	0.55	2.4	1.15	4.6	27.60	1.15	51.80	385.00	38.50	3.05	15.30	40.00	558.20	123.00	681.20	15	696.20	139.20	104.43	940.00
	500	0.60	2.4	1.20	4.9	29.40	1.26	56.70	450.00	45.00	3.05	15.30	40.00	636.40	134.00	770.40	20	790.40	158.10	118.56	1,070.00
	600	0.73	2.4	1.33	5.8	34.80	1.57	70.70	719.00	71.90	3.05	15.30	40.00	951.70	174.00	1,125.70	20	1,145.70	229.10	171.86	1,550.00
СРР	750	0.90	2.4	1.50	7.0	42.00	2.02	91.20	850.00	85.00	3.00	15.00	40.00	1,123.20	150.00	1,273.20	20	1,293.20	258.60	193.98	1,750.00
GFF	900	1.10	3.0	1.70	8.7	52.20	2.63	118.60	1,000.00	100.00	3.35	16.80	40.00	1,327.60	180.00	1,507.60	20	1,527.60	305.50	229.14	2,070.00

B) Watermain Installation with Granular Road Restoration

	Nom. Pipe	Outer	Depth to	Minimum	Exca	vation	Bed	ding	Р	ipe	Bad	kfill	Restoration	Subtotal Unit	Appurtenance	Subtotal Unit	Dewatering	Subtotal Unit	Conting	Eng.	TOTAL (excl.
	Size	Diameter	Invert	Trench Width	Vol.	Cost	Vol.	Cost	Cost	Installation	Vol.	Cost	Allowance	Cost	Allowance	Cost	Allowance	Cost	@20%	@15%	HST)
	(mm)	(m)	(m)	(m)	(m ³)	(\$/m)	(m ³)	(\$/m)	(\$/m)	(\$/m)	(m ³)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)
	100	0.14	2.4	0.74	2.8	16.80	0.44	19.70	24.80	2.48	2.80	14.00	72.00	149.78	59.00	208.78	10	218.78	43.80	39.40	310.00
	150	0.20	2.4	0.80	3.10	18.60	0.52	23.40	38.25	3.83	2.85	14.30	72.00	170.38	59.00	229.38	10	239.38	47.90	35.91	330.00
	200	0.26	2.4	0.86	3.4	20.40	0.61	27.50	63.00	6.30	2.90	14.50	72.00	203.70	64.00	267.70	10	277.70	55.50	41.66	380.00
	250	0.33	2.4	0.93	3.7	22.20	0.73	32.70	91.00	9.10	2.95	14.80	72.00	241.80	67.00	308.80	10	318.80	63.80	47.82	440.00
PVC	300	0.38	2.4	0.98	4.0	24.00	0.81	36.70	124.50	12.45	3.00	15.00	72.00	284.65	80.00	364.65	15	379.65	75.90	56.95	520.00
FVG	350	0.45	2.4	1.05	4.4	26.40	0.94	42.60	279.00	27.90	3.00	15.00	72.00	462.90	105.00	567.90	15	582.90	116.60	87.44	790.00
	400	0.50	2.4	1.10	4.5	27.00	1.04	47.10	312.00	31.20	3.05	15.30	72.00	504.60	123.00	627.60	15	642.60	128.50	96.39	870.00
	450	0.55	2.4	1.15	4.6	27.60	1.15	51.80	385.00	38.50	3.05	15.30	72.00	590.20	153.00	743.20	15	758.20	151.60	113.73	1,030.00
	500	0.60	2.4	1.20	4.9	29.40	1.26	56.70	450.00	45.00	3.05	15.30	72.00	668.40	164.00	832.40	20	852.40	170.50	127.86	1,160.00
	600	0.73	2.4	1.33	5.8	34.80	1.57	70.70	719.00	71.90	3.05	15.30	72.00	983.70	194.00	1,177.70	20	1,197.70	239.50	179.66	1,620.00
СРР	750	0.90	2.4	1.50	7.0	42.00	2.02	91.20	850.00	85.00	3.00	15.00	72.00	1,155.20	150.00	1,305.20	20	1,325.20	265.00	198.78	1,790.00
CFF	900	1.10	3.0	1.70	8.7	52.20	2.63	118.60	1,000.00	100.00	3.35	16.80	72.00	1,359.60	180.00	1,539.60	20	1,559.60	311.90	233.94	2,110.00

C) Watermain Installation with with Road Restoration (Assumes 1 Lane restored, along with Curb & Gutter, and Sidewalk one side)

	Nom. Pipe	Outer	Depth to	Minimum	Exca	vation	Bec	ding	Р	ipe	Bac	kfill	Restoration	Subtotal Unit	Appurtenance	Subtotal Unit	Dewatering	Subtotal Unit	Conting	Eng.	TOTAL (excl.
	Size	Diameter	Invert	Trench Width	Vol.	Cost	Vol.	Cost	Cost	Installation	Vol.	Cost	Allowance	Cost	Allowance	Cost	Allowance	Cost	@20%	@15%	HST)
	(mm)	(m)	(m)	(m)	(m ³)	(\$/m)	(m ³)	(\$/m)	(\$/m)	(\$/m)	(m ³)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)
	100	0.14	2.4	0.74	2.8	16.80	0.44	19.70	24.80	2.48	2.80	14.00	214.12	291.90	59.00	350.90	10	360.90	72.20	65.00	500.00
	150	0.20	2.4	0.80	3.1	18.60	0.52	23.40	38.25	3.83	2.85	14.30	214.12	312.50	59.00	371.50	10	381.50	76.30	57.22	520.00
	200	0.26	2.4	0.86	3.4	20.40	0.61	27.50	63.00	6.30	2.90	14.50	214.12	345.82	64.00	409.82	10	419.82	84.00	62.97	570.00
	250	0.33	2.4	0.93	3.7	22.20	0.73	32.70	91.00	9.10	2.95	14.80	214.12	383.92	67.00	450.92	10	460.92	92.20	69.14	630.00
PVC	300	0.38	2.4	0.98	4.0	24.00	0.81	36.70	124.50	12.45	3.00	15.00	214.12	426.77	80.00	506.77	15	521.77	104.40	78.27	710.00
FVC	350	0.45	2.4	1.05	4.4	26.40	0.94	42.60	279.00	27.90	3.00	15.00	214.12	605.02	105.00	710.02	15	725.02	145.00	108.75	980.00
	400	0.50	2.4	1.10	4.5	27.00	1.04	47.10	312.00	31.20	3.05	15.30	214.12	646.72	123.00	769.72	15	784.72	156.90	117.71	1,060.00
	450	0.55	2.4	1.15	4.6	27.60	1.15	51.80	385.00	38.50	3.05	15.30	214.12	732.32	153.00	885.32	15	900.32	180.10	135.05	1,220.00
	500	0.60	2.4	1.20	4.9	29.40	1.26	56.70	450.00	45.00	3.05	15.30	214.12	810.52	164.00	974.52	20	994.52	198.90	149.18	1,350.00
	600	0.73	2.4	1.33	5.8	34.80	1.57	70.70	719.00	71.90	3.05	15.30	214.12	1,125.82	194.00	1,319.82	20	1,339.82	268.00	200.97	1,810.00
СРР	750	0.90	2.4	1.50	7	42.00	2.02	91.20	850.00	85.00	3.00	15.00	214.12	1,297.32	150.00	1,447.32	20	1,467.32	293.50	220.10	1,990.00
CFF	900	1.10	3.0	1.70	8.7	52.20	2.63	118.60	1,000.00	100.00	3.35	16.80	214.12	1,501.72	180.00	1,681.72	20	1,701.72	340.30	255.26	2,300.00

Notes

1) Cost of excavation: \$6/m3

2) Cost of bedding/pipe surrounding: \$45/m3 includes supply and place

3) PVC Pipe (up to 600 mm) Cost provided by IPEX on 30 Oct 17

4) Pipe Installation Allowance based on 10% of pipe cost

5) Backfill trench \$5/m3 based on replacement of native material and compaction

Prepared By:	D. Prashad	Date:
Checked By:	S. Winchester	Date:

30-Nov-17

6) Includes costs for mainline valves and hydrant sets. No hydrants connected to 750mm and larger mains. Service connections and special appurtenances excluded 7) Restoration for route along existing road allowance (Cost varies with type of restoration). Minimum 4.0m width of restoration (2.0m trench plus 1.0 m each side)

8) Includes allowance for dewatering 9) PVC DR18 (100mm to 600mm)

Nom.	Depth to	Shoring	Outer	Exca	vation	Granular	Bed. Surr.	Backf	ill	F	Pipe				TOTAL		TOTAL
Pipe Size	Invert	System Cost	pipe Diameter	Vol.	Cost	Vol.	Cost	Vol.	Cost	Cost	Installation Allowance	MH Allowance	Subtotal	Dewatering Allowance	(excluding restoration)	Road Restoration	(including restoration)
(mm)	(m)	(\$/m)	(m)	(m3)	(\$/m)	(m3)	(\$/m)	(m3)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)	(\$/m)
200	5	10.00	0.213	6.2	37.20	0.6	27.00	5.6	28.00	55.65	5.57	94.00	257.42	20.00	280	214	494
250	5	10.00	0.267	6.2	37.2	0.7	31.5	5.5	27.5	85.30	8.53	94.00	294.03	20.00	320	214	534
300	5	10.00	0.318	6.2	37.20	0.8	36.00	5.4	27.00	120.25	12.03	94.00	336.48	20.00	360	214	574
375	5	10.00	0.389	6.2	37.20	0.9	40.50	5.3	26.50	162.45	16.25	94.00	386.90	20.00	410	214	624
450	5	10.00	0.622	7.3	43.80	1.2	54.00	6.1	30.50	101.30	30.39	94.00	363.99	20.00	390	214	604
525	5	10.00	0.711	7.8	46.80	1.4	63.00	6.4	32.00	129.00	38.70	135.00	454.50	20.00	480	214	694
600	5	10.00	0.800	8.2	49.20	1.5	67.50	6.7	33.50	170.90	51.27	135.00	517.37	20.00	540	214	754
675	5	15.00	0.889	8.7	52.20	1.6	72.00	7.1	35.50	259.60	77.88	135.00	647.18	20.00	670	271	941
750	5	15.00	0.978	9.2	55.20	1.8	81.00	7.4	37.00	343.50	103.05	135.00	769.75	20.00	790	271	1,061
825	5	15.00	1.067	9.6	57.60	1.9	85.50	7.7	38.50	443.40	133.02	172.00	945.02	20.00	970	271	1,241
900	5	15.00	1.156	10.4	62.40	2.1	94.50	8.3	41.50	478.40	143.52	172.00	1,007.32	20.00	1,030	271	1,301
975	5	20.00	1.245	10.8	64.80	2.2	99.00	8.6	43.00	549.70	164.91	172.00	1,113.41	20.00	1,140	271	1,411
1050	5	20.00	1.334	11.3	67.80	2.4	108.00	8.9	44.50	632.00	189.60	303.00	1,364.90	20.00	1,390	271	1,661
1200	5	20.00	1.511	12.2	73.20	2.7	121.50	9.5	47.50	791.50	237.45	303.00	1,594.15	20.00	1,620	271	1,891
	_	10.00			= 1 = 2				10.00								
200	7	10.00	0.213	8.6	51.60	0.6	27.00	8.0	40.00	55.65	5.57	150.00	339.82	20.00	360	214	574
250	7	10.00	0.267	8.6	51.60	0.7	31.5	7.9	39.50	85.30	8.53	150.00	376.43	20.00	400.00	214	614
300	7	15.00	0.318	8.6	51.60	0.8	36.00	7.8	39.00	120.25	12.03	150.00	423.88	20.00	450	214	664
375	7	15.00	0.389	8.6	51.60	0.9	40.50	7.7	38.50	162.45	16.25	150.00	474.30	20.00	500	214	714
450	7	15.00	0.622	10.2	61.20	1.2	54.00	9.0	45.00	101.30	30.39	150.00	456.89	20.00	480	214	694
525	7	15.00	0.711	10.8	64.80	1.4	63.00	9.4	47.00	129.00	38.70	189.00	546.50	20.00	570	214	784
600	7	20.00	0.800	11.4	68.40	1.5	67.50	9.9	49.50	170.90	51.27	189.00	616.57	20.00	640	214	854
675	7	20.00	0.889	12.1	72.60	1.6	72.00	10.5	52.50	259.60	77.88	189.00	743.58	20.00	770	271	1,041
750	7	20.00	0.978	12.7	76.20	1.8	81.00	10.9	54.50	343.50	103.05	189.00	867.25	20.00	890	271	1,161
825	7	20.00	1.067	13.3	79.80	1.9	85.50	11.4	57.00	443.40	133.02	226.00	1,044.72	20.00	1,070	271	1,341
900	7	30.00	1.156	14.3	85.80	2.1	94.50	12.2	61.00	478.40	143.52	226.00	1,119.22	20.00	1,140	271	1,411
975	7	30.00	1.245	14.9	89.40	2.2	99.00	12.7	63.50	549.70	164.91	226.00	1,222.51	20.00	1,250	271	1,521
1050	7	40.00	1.334	15.6	93.60	2.4	108.00	13.2	66.00	632.00	189.60	356.00	1,485.20	20.00	1,510	271	1,781
1200	7	40.00	1.511	16.9	101.40	2.7	121.50	14.2	71.00	791.50	237.45	356.00	1,718.85	20.00	1,740	271	2,011

WASTEWATER SERVICING INFRASTRUCTURE - Average Unit Prices (Southwestern Ontarion Region) for 2019

<u>Notes</u>

1) Cost of excavation \$6/m³

2) For 200mm to 375 mm sewer pipe, supply cost taken from Royal Pipe Products (PVC) 2018 Price 6) Manhole Spacing 100 m Installation Cost 10% of pipe supply cost

3) For sewer pipe 450mm dia and larger, supply cost taken from M-Con Products 2017 Price list for 1 Installation Cost 30% of pipe cost for concrete pipe

4) Backfill trench \$5/m3 based on replacement of native material and compaction

5) Cost of granular bedding \$45/m³

7) Service Laterals excluded from this estimate,

8) Restoration cost for sewers 600mm dia and smaller includes 300mm subbase, 150mm base, 60mm binder, and 40mm binder 9) Restoration cost for sewers larger than 600mm dia includes 450mm subbase, 150mm base, 100mm binder, and 40mm surface 10) Engineering and HST not included

> Prepared By: Checked By:

S. Mayirou S. Winchester

9/1/2018 Date: 15/01/18 Date:

МН	Dia	Dep	th	List Price ¹	Additional Items ²	Sub-Total _ Supply Cost	Installation @ 100%	Total Cost per Installed	Cost per m
	120	00	5	\$3,834.00	\$862.80	\$4,696.80	\$4,696.80	\$9,400.00	\$94.00
	150	00	5	\$5,630.00	\$1,112.80	\$6,742.80	\$6,742.80	\$13,500.00	\$135.00
	180	00	5	\$7,128.00	\$1,462.80	\$8,590.80	\$8,590.80	\$17,200.00	\$172.00
	240	00	5	\$13,265.00	\$1,862.80	\$15,127.80	\$15,127.80	\$30,300.00	\$303.00
	120	00	7	\$6,593.00	\$862.80	\$7,455.80	\$7,455.80	\$15,000.00	\$150.00
	150	00	7	\$8,293.00	\$1,112.80	\$9,405.80	\$9,405.80	\$18,900.00	\$189.00
	180	00	7	\$9,791.00	\$1,462.80	\$11,253.80	\$11,253.80	\$22,600.00	\$226.00
	240	00	7	\$15,927.00	\$1,862.80	\$17,789.80	\$17,789.80	\$35,600.00	\$356.00

Note:

1 Based on 2017 List Price from M-Con Products. Safety Landing included for MH depths > 5.0 m 2 Allowance for castings, grade rings, benching, flexible connectors

Flexible Connectors

 300
 \$312.30

 375
 \$375.30

 450
 \$474.80

 525
 \$560.50

 600
 \$664.40

 675
 Not listed

 750
 Not listed

 825
 Not listed

 900
 Not listed

 975
 Not listed

 1050
 Not listed

 1200
 Not listed

Excavation Quantities for Sewers laid at Different Depths

For Depth to Invert = 5.0 m

Nom. Pipe Size	Outer Pipe Dia.	Depth To Invert	Bot	tom Tre	nch	Mic	idle Trer	nch		Тор Ті	rench		Total Area
			Width	Depth	Area	Width	Depth	Area	Bottom Width	Top Width	Depth	Area	
mm	m	m	m	m	m2	m	m	m2	m	m	m	m2	m2
200	0.260	5	1.010	1	1.0	1.510	3	4.5	1.510	3.510	1	2.5	8.1
250	0.318	5	1.068	1	1.1	1.568	3	4.7	1.568	3.568	1	2.6	8.3
300	0.445	5	1.195	1	1.2	1.695	3	5.1	1.695	3.695	1	2.7	9.0
375	0.520	5	1.270	1	1.3	1.770	3	5.3	1.770	3.770	1	2.8	9.4
450	0.580	5	1.330	1	1.3	1.830	3	5.5	1.830	3.830	1	2.8	9.7
525	0.665	5	1.415	1	1.4	1.915	3	5.7	1.915	3.915	1	2.9	10.1
600	0.755	5	1.505	1	1.5	2.005	3	6.0	2.005	4.005	1	3.0	10.5
675	0.880	5	1.630	1	1.6	2.130	3	6.4	2.130	4.130	1	3.1	11.2
750	0.970	5	1.720	1	1.7	2.220	3	6.7	2.220	4.220	1	3.2	11.6
825	1.055	5	1.805	1	1.8	2.305	3	6.9	2.305	4.305	1	3.3	12.0

For Depth to Invert = 7.0 m

Nom.	Outer	Depth	Bot	tom Tre	nch	Mic	idle Trer	nch		Top T	rench		Total
Pipe	Pipe	То											Area
Size	Dia.	Invert											
			Width	Depth	Area	Width	Depth	Area	Bottom	Тор	Depth	Area	
									Width	Width			
mm	m	m	m	m	m2	m	m	m2	m	m	m	m2	m2
250	0.318	7	1.068	1	1.1	1.568	5	7.8	1.568	3.568	1	2.6	11.5
300	0.445	7	1.195	1	1.2	1.695	5	8.5	1.695	3.695	1	2.7	12.4
375	0.520	7	1.270	1	1.3	1.770	5	8.9	1.770	3.770	1	2.8	12.9
450	0.580	7	1.330	1	1.3	1.830	5	9.2	1.830	3.830	1	2.8	13.3
525	0.665	7	1.415	1	1.4	1.915	5	9.6	1.915	3.915	1	2.9	13.9
600	0.755	7	1.505	1	1.5	2.005	5	10.0	2.005	4.005	1	3.0	14.5
675	0.880	7	1.630	1	1.6	2.130	5	10.7	2.130	4.130	1	3.1	15.4
750	0.970	7	1.720	1	1.7	2.220	5	11.1	2.220	4.220	1	3.2	16.0
825	1.055	7	1.805	1	1.8	2.305	5	11.5	2.305	4.305	1	3.3	16.6

For Depth to Invert = 9.0 m

Nom. Pipe Size	Outer Pipe Dia.	Depth To Invert	Bot	tom Trei	nch	Mic	ldle Trer	nch		Тор Т	rench		Total Area
			Width	Depth	Area	Width	Depth	Area	Bottom Width	Top Width	Depth	Area	
mm	m	m	m	m	m2	m	m	m2	m	m	m	m2	m2
250	0.318	9	1.068	1	1.1	1.568	6	9.4	1.568	5.568	2	7.1	17.6
300	0.445	9	1.195	1	1.2	1.695	6	10.2	1.695	5.695	2	7.4	18.8
375	0.520	9	1.270	1	1.3	1.770	6	10.6	1.770	5.770	2	7.5	19.4
450	0.580	9	1.330	1	1.3	1.830	6	11.0	1.830	5.830	2	7.7	20.0
525	0.665	9	1.415	1	1.4	1.915	6	11.5	1.915	5.915	2	7.8	20.7
600	0.755	9	1.505	1	1.5	2.005	6	12.0	2.005	6.005	2	8.0	21.5
675	0.880	9	1.630	1	1.6	2.130	6	12.8	2.130	6.130	2	8.3	22.7
750	0.970	9	1.720	1	1.7	2.220	6	13.3	2.220	6.220	2	8.4	23.5
825	1.055	9	1.805	1	1.8	2.305	6	13.8	2.305	6.305	2	8.6	24.2

RESTORATION UNIT COST FOR SEWERS

Nom. Pipe Size	Outer Pipe Dia.	Depth To Invert	Surface Area of Trench	Topsoil+ Seed Cost @ \$7.5/m ²	Topsoil+ Sod Cost @ \$10.00/m ²	Granular Restora & Sul	ation Base o-base		bhalt ranular Base
						Local Street @ \$18.0/m ²	Collector Street @ \$23.4/m ²	Local Street @ \$41.0/m ²	Collector Street @ \$55.3/m ²
mm	m	m	m²/m	\$/m	\$/m	\$/m	\$/m	\$/m	\$/m
300	0.445	5	4.0	30.2	40.0	72.0	93.6	214.1	271.0
375	0.533	5	4.0	30.2	40.0	72.0	93.6	214.1	271.0
450	0.622	5	4.0	30.2	40.0	72.0	93.6	214.1	271.0
525	0.711	5	4.0	30.2	40.0	72.0	93.6	214.1	271.0
600	0.800	5	4.0	30.2	40.0	72.0	93.6	214.1	271.0
675	0.889	5	4.0	30.2	40.0	72.0	93.6	214.1	271.0
750	0.978	5	4.0	30.2	40.0	72.0	93.6	214.1	271.0
825	1.067	5	4.0	30.2	40.0	72.0	93.6	214.1	271.0
900	1.156	5	4.0	30.2	40.0	72.0	93.6	214.1	271.0
975	1.245	5	4.0	30.2	40.0	72.0	93.6	214.1	271.0
105	1.334	5	4.0	30.2	40.0	72.0	93.6	214.1	271.0
1200	1.511	5	4.0	30.2	40.0	72.0	93.6	214.1	271.0

UNIT COST FOR DIFFERENT LAYERS

Item	Local Street		Collector Street		Remarks	
		\$/m²		\$/m²		
Subbase	300 mm "B"	10.8	450 mm "B"	16.2	"B" @ \$15/tonne (2.4 t/m ³)	
Base	150 mm "A"	7.2	150 mm "A"	7.2	"A" @ \$20/tonne (2.4 t/m ³)	
Subtotal		18.0		23.4		
Binder	60 HL4	13.2	100 HL4	22.1	"HL4" @ \$90/tonne (2.45 t/m ³)	
Surface	40 HL3	9.8	40 HL3	9.8	"HL3" @ \$100/tonne (2.45 t/m ³)	
Total		41.0		55.3		
Curb (one side)		50.0		50.0		



Appendix C Preliminary Cost Recovery Estimates – Detailed Calculations





Project Title:	Water and Sewage Feasibility Study	
Client:	Township of Puslinch	
Project No.:	T000866A	
Task:	Cost Recovery Calculations	
Prepared By:	A. Laleva	Date: 16-May-19
Reviewed by:	S. Winchester	Date: 20-May-19
Revision No. :		Revision Date:

		PRELIMINARY COST	RECOVERY OPTIONS	
	WATER S	ERVICING	WASTEWATE	ER SERVICING
	OPTION 1	OPTION 2	OPTION 1	OPTION 2
ASSUME NO FUNDING				
CAPITAL COST	\$22,935,500	\$19,976,700	\$29,036,580	\$11,683,080
Servicing Cost Per Unit (128 connections)	\$179,184	\$156,068	\$226,848	\$91,274
	Monthly Cost Annual Cost			
Estimated Cost - 10 Year Payback (4.0%)	\$1,814 \$21,770	\$1,580 \$18,961	\$2,297 \$27,561	\$924 \$11,089
Estimated Cost - 15 Year Payback (4.0%)	\$1,325 \$15,905	\$1,154 \$13,853	\$1,678 \$20,136	\$675 \$8,102
Estimated Cost - 20 Year Payback (4.0%)	\$1,086 \$13,030	\$946 \$11,349	\$1,375 \$16,496	\$553 \$6,637
ASSUME 2/3 FUNDING				
CAPITAL COST	\$22,935,500	\$19,976,700	\$29,036,580	\$11,683,080
SUBSIDIZED COST	\$7,645,167	\$6,658,900	\$9,678,860	\$3,894,360
Servicing Cost Per Unit (128 connections)	\$59,728	\$52,023	\$75,616	\$30,425
2 ()	Monthly Cost Annual Cost			
Estimated Cost - 10 Year Payback (4.0%)	\$605 \$7,257	\$527 \$6,320	\$766 \$9,187	\$308 \$3,696
Estimated Cost - 15 Year Payback (4.0%)	\$442 \$5,302	\$385 \$4,618	\$559 \$6,712	\$225 \$2,701
Estimated Cost - 20 Year Payback (4.0%)	\$362 \$4,343	\$315 \$3,783	\$458 \$5,499	\$184 \$2,212

Note: Payback amouts exclude Administration Fees (if any) charged by the Township to administer the loans

Calculate Discount FactorS

For 10 Year Cost Recovery

where	A = i =	((i*(1+i)^n) / ((1+i)^n -1)) interest rate per period	Capital Recovery Factor (Eq'n 3.18, Engineering Economic Analysis)
	i _a =	4.0 %	Assumed Annual Interest Rate
	=	0.333333 %	
	=	0.003333	
	n =	120	Number of Monthly PaymentPayments
	A =	0.010125	
	D =	98.77017	Discount Factor (=1/A)
	A =	0.010125	

For 15 Year Cost Recovery

A =	((i*(1+i)^n) / ((1+i)^n -1))	
i =	interest rate per period	
i _a =	4.0 %	Assumed Annual Interest Rate
=	0.333333 %	
=	0.003333	
n =	180	Number of Monthly PaymentPayments
A =	0.007397	
D =	135.1921	Discount Factor (=1/A)
	i = i _a = = n = A =	i = interest rate per period i _a = 4.0% = 0.333333% = 0.003333 n = 180 A = 0.007397

For 20 Year Cost Recovery

where	A = i =	((i*(1+i)^n) / ((1+i)^n -1)) interest rate per period	
	i _a =	4.0 %	Assumed Annual Interest Rate
	=	0.333333 %	
	=	0.003333	
	n =	240	Number of Monthly PaymentPayments
	A =	0.00606	
	D =	165.0219	Discount Factor (=1/A)

48

49

Estimated Capital Cost:	\$22,935,500
Number of Benefitting Properties:	128
Cost per Connection:	\$179,183.59

Monthly Cost -P = Loan Amount **Interest Rate Term in Years Monthly Payment** \$179,184.00 4.00% 10 \$1,814.15 Month **Starting Balance** Interest Principal **Ending Balance Total Interest** \$179,184.00 \$597.28 \$177,967.13 \$597.28 1 \$1,216.87 2 \$177,967.13 \$593.22 \$1,220.93 \$176,746.20 \$1,190.50 3 \$176,746.20 \$1,225.00 \$175,521.21 \$589.15 \$1,779.66 4 \$175,521.21 \$585.07 \$1,229.08 \$174,292.12 \$2,364.73 5 \$174,292.12 \$580.97 \$1,233.18 \$173,058.95 \$2,945.70 6 \$173,058.95 \$576.86 \$1,237.29 \$171,821.66 \$3,522.57 7 \$1,241.41 \$170,580.25 \$4,095.30 \$171,821.66 \$572.74 8 \$170,580.25 \$568.60 \$1,245.55 \$169,334.70 \$4,663.91 9 \$1,249.70 \$168,085.00 \$5,228.35 \$169,334.70 \$564.45 10 \$168,085.00 \$560.28 \$1,253.87 \$166,831.13 \$5,788.64 11 \$166,831.13 \$556.10 \$1,258.05 \$165,573.08 \$6,344.74 12 \$1,262.24 \$164,310.84 \$6,896.65 \$165,573.08 \$551.91 13 \$1,266.45 \$164,310.84 \$547.70 \$163,044.39 \$7,444.35 14 \$163,044.39 \$543.48 \$1,270.67 \$161,773.72 \$7,987.84 15 \$1,274.91 \$160,498.82 \$8,527.08 \$161,773.72 \$539.25 16 \$9,062.08 \$160,498.82 \$535.00 \$1,279.15 \$159,219.66 17 \$159,219.66 \$530.73 \$1,283.42 \$157,936.24 \$9,592.81 18 \$157,936.24 \$526.45 \$1,287.70 \$156,648.55 \$10,119.26 19 \$156,648.55 \$522.16 \$1,291.99 \$155,356.56 \$10,641.43 20 \$1,296.30 \$154,060.26 \$11,159.28 \$155,356.56 \$517.86 21 \$154,060.26 \$513.53 \$1,300.62 \$152,759.65 \$11,672.81 22 \$1,304.95 \$151,454.69 \$152,759.65 \$509.20 \$12,182.01 23 \$1,309.30 \$12,686.86 \$151,454.69 \$504.85 \$150,145.39 24 \$1,313.67 \$150,145.39 \$500.48 \$148,831.73 \$13,187.35 25 \$13,683.45 \$496.11 \$147,513.68 \$148,831.73 \$1,318.05 26 \$147,513.68 \$491.71 \$1,322.44 \$146,191.24 \$14,175.17 27 \$487.30 \$1,326.85 \$144,864.40 \$14,662.47 \$146,191.24 \$1,331.27 28 \$15,145.35 \$144,864.40 \$482.88 \$143,533.13 29 \$1,335.71 \$15,623.79 \$143,533.13 \$478.44 \$142,197.42 30 \$1,340.16 \$140,857.26 \$16,097.79 \$142,197.42 \$473.99 31 \$140,857.26 \$469.52 \$1,344.63 \$139,512.63 \$16,567.31 32 \$139,512.63 \$465.04 \$1,349.11 \$138,163.52 \$17,032.35 33 \$460.55 \$1,353.61 \$136,809.92 \$17,492.90 \$138,163.52 34 \$136,809.92 \$456.03 \$1,358.12 \$135,451.80 \$17,948.93 35 \$1,362.64 \$134,089.16 \$18,400.44 \$135,451.80 \$451.51 36 \$134,089.16 \$446.96 \$1,367.19 \$132,721.97 \$18,847.40 37 \$1,371.74 \$131,350.22 \$19,289.81 \$132,721.97 \$442.41 38 \$131,350.22 \$437.83 \$1,376.32 \$129,973.91 \$19,727.64 39 \$129,973.91 \$433.25 \$1,380.90 \$128,593.00 \$20,160.89 40 \$20,589.53 \$128,593.00 \$428.64 \$1,385.51 \$127,207.50 \$127,207.50 \$125,817.37 41 \$424.02 \$1,390.13 \$21,013.56 42 \$21,432.95 \$125,817.37 \$419.39 \$1,394.76 \$124,422.61 43 \$21,847.69 \$124,422.61 \$414.74 \$1,399.41 \$123,023.20 44 \$123,023.20 \$410.08 \$1,404.07 \$121,619.13 \$22,257.77 \$22,663.16 45 \$121,619.13 \$405.40 \$1,408.75 \$120,210.37 46 \$120,210.37 \$400.70 \$1,413.45 \$23,063.86 \$118,796.92 47 \$118,796.92 \$395.99 \$1,418.16 \$117,378.76 \$23,459.85

0.010124514 \$1,814.15

Capital Cost Recovery Factor - A =

\$23,851.12

\$24,237.64

\$115,955.87

\$114,528.24

	. ,		. ,	. ,	. ,
50	\$114,528.24	\$381.76	\$1,432.39	\$113,095.85	\$24,619.40
51	\$113,095.85	\$376.99	\$1,437.16	\$111,658.69	\$24,996.38
52	\$111,658.69	\$372.20	\$1,441.96	\$110,216.73	\$25,368.58
53	\$110,216.73	\$367.39	\$1,446.76	\$108,769.97	\$25,735.97
54	\$108,769.97	\$362.57	\$1,451.58	\$107,318.39	\$26,098.53
55	\$107,318.39	\$357.73	\$1,456.42	\$105,861.96	\$26,456.26
56	\$105,861.96	\$352.87	\$1,461.28	\$104,400.69	\$26,809.14
57	\$104,400.69	\$348.00	\$1,466.15	\$102,934.54	\$27,157.14
58	\$102,934.54	\$343.12	\$1,471.04	\$101,463.50	\$27,500.25
59	\$101,463.50	\$338.21	\$1,475.94	\$99,987.56	\$27,838.46
60	\$99,987.56	\$333.29	\$1,480.86	\$98,506.70	\$28,171.76
61	\$98,506.70	\$328.36	\$1,485.80	\$97,020.91	\$28,500.11

\$1,422.89

\$1,427.63

\$391.26

\$386.52

\$117,378.76

\$115,955.87

109

\$21,305.38

Estimated Capital Cost:	\$22,935,500
Number of Benefitting Properties:	128
Cost per Connection:	\$179,183.59

	ecovery Factor - A =
mount Interest Rate Term in Years Monthly Payment	Monthly Cost -P =
84.00 4.00% 10 \$1,814.15	
	T . 4 . 1 1. 4 4
th Starting Balance Interest Principal Ending Balance	Total Interest
2 \$97,020.91 \$323.40 \$1,490.75 \$95,530.16	\$28,823.52
\$ \$95,530.16 \$318.43 \$1,495.72 \$94,034.44	\$29,141.95
\$94,034.44 \$313.45 \$1,500.70 \$92,533.74	\$29,455.40
5 \$92,533.74 \$308.45 \$1,505.71 \$91,028.04	\$29,763.84
§ \$91,028.04 \$303.43 \$1,510.72 \$89,517.31	\$30,067.27
7 \$89,517.31 \$298.39 \$1,515.76 \$88,001.55	\$30,365.66
3 \$88,001.55 \$293.34 \$1,520.81 \$86,480.74	\$30,659.00
9 \$86,480.74 \$288.27 \$1,525.88 \$84,954.86	\$30,947.27
) \$84,954.86 \$283.18 \$1,530.97 \$83,423.89	\$31,230.45
l \$83,423.89 \$278.08 \$1,536.07 \$81,887.82	\$31,508.53
2 \$81,887.82 \$272.96 \$1,541.19 \$80,346.63	\$31,781.49
3 \$80,346.63 \$267.82 \$1,546.33 \$78,800.30	\$32,049.31
\$78,800.30 \$262.67 \$1,551.48 \$77,248.82	\$32,311.98
5 \$77,248.82 \$257.50 \$1,556.65 \$75,692.16	\$32,569.48
5 \$75,692.16 \$252.31 \$1,561.84 \$74,130.32	\$32,821.78
\$ 74,130.32 \$ 247.10 \$ 1,567.05 \$ 72,563.27	\$33,068.88
3 \$72,563.27 \$241.88 \$1,572.27 \$70,990.99	\$33,310.76
9 \$70,990.99 \$236.64 \$1,577.51 \$69,413.48	\$33,547.40
) \$69,413.48 \$231.38 \$1,582.77 \$67,830.71	\$33,778.78
l \$67,830.71 \$226.10 \$1,588.05 \$66,242.66	\$34,004.88
2 \$66,242.66 \$220.81 \$1,593.34 \$64,649.32	\$34,225.69
3 \$64,649.32 \$215.50 \$1,598.65 \$63,050.66	\$34,441.19
\$ \$63,050.66 \$210.17 \$1,603.98 \$61,446.68	\$34,651.36
5 \$61,446.68 \$204.82 \$1,609.33 \$59,837.35	\$34,856.18
5 \$59,837.35 \$199.46 \$1,614.69 \$58,222.66	\$35,055.64
7 \$58,222.66 \$194.08 \$1,620.08 \$56,602.58	\$35,249.71
3 \$56,602.58 \$188.68 \$1,625.48 \$54,977.11	\$35,438.39
9 \$54,977.11 \$183.26 \$1,630.89 \$53,346.21	\$35,621.64
3 \$1,53,540.21 \$1,636.33 \$51,709.88	
	\$35,799.46
\$1,709.88 \$172.37 \$1,641.78 \$50,068.10 \$2 \$50,068.10 \$166.89 \$1,647.26 \$48,420.84	\$35,971.83
	\$36,138.72
3 \$48,420.84 \$161.40 \$1,652.75 \$46,768.09 \$1,652.75 \$46,768.09 \$161.40 \$1,652.75 \$46,768.09	\$36,300.13
4 \$46,768.09 \$155.89 \$1,658.26 \$45,109.84	\$36,456.02
5 \$45,109.84 \$150.37 \$1,663.78 \$43,446.05 \$1,663.78 \$43,446.05 \$1,663.78 <td>\$36,606.39</td>	\$36,606.39
5 \$43,446.05 \$144.82 \$1,669.33 \$41,776.72 ************************************	\$36,751.21
7 \$41,776.72 \$139.26 \$1,674.90 \$40,101.83 ************************************	\$36,890.46
3 \$40,101.83 \$133.67 \$1,680.48 \$38,421.35 \$1,020.07	\$37,024.13
\$38,421.35 \$128.07 \$1,686.08 \$36,735.27 \$100,150 \$100,150 \$100,150 \$100,150 \$100,150	\$37,152.21
0 \$36,735.27 \$122.45 \$1,691.70 \$35,043.57	\$37,274.66
1 \$35,043.57 \$116.81 \$1,697.34 \$33,346.23	\$37,391.47
2 \$33,346.23 \$111.15 \$1,703.00 \$31,643.23	\$37,502.62
3 \$31,643.23 \$105.48 \$1,708.67 \$29,934.56	\$37,608.10
4 \$29,934.56 \$99.78 \$1,714.37 \$28,220.19	\$37,707.88
5 \$28,220.19 \$94.07 \$1,720.08 \$26,500.11	\$37,801.95
6 \$26,500.11 \$88.33 \$1,725.82 \$24,774.29	\$37,890.28
7 \$24,774.29 \$82.58 \$1,731.57 \$23,042.72	\$37,972.86
8 \$23,042.72 \$76.81 \$1,737.34 \$21,305.38	\$38,049.67

0.010124514 \$1,814.15

110	\$19,562.24	\$65.21	\$1,748.94	\$17,813.30	\$38,185.90
111	\$17,813.30	\$59.38	\$1,754.77	\$16,058.53	\$38,245.28
112	\$16,058.53	\$53.53	\$1,760.62	\$14,297.91	\$38,298.80
113	\$14,297.91	\$47.66	\$1,766.49	\$12,531.41	\$38,346.46
114	\$12,531.41	\$41.77	\$1,772.38	\$10,759.04	\$38,388.24
115	\$10,759.04	\$35.86	\$1,778.29	\$8,980.75	\$38,424.10
116	\$8,980.75	\$29.94	\$1,784.22	\$7,196.53	\$38,454.04
117	\$7,196.53	\$23.99	\$1,790.16	\$5,406.37	\$38,478.02
118	\$5,406.37	\$18.02	\$1,796.13	\$3,610.24	\$38,496.04
119	\$3,610.24	\$12.03	\$1,802.12	\$1,808.12	\$38,508.08
120	\$1,808.12	\$6.03	\$1,808.12	\$0.00	\$38,514.11

\$1,743.13

\$19,562.24

\$38,120.69

\$71.02

48

49

\$142,202.44

\$141,351.05

Estimated Capital Cost:	\$22,935,500
Number of Benefitting Properties:	128
Cost per Connection:	\$179,183.59

Loan Amount	Interest Rate	Term in Years	Monthly Payment		Monthly Cost -P =
\$179,184.00	4.00%	15	\$1,325.40		
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest
1	\$179,184.00	\$597.28	\$728.12	\$178,455.88	\$597.28
2	\$178,455.88	\$594.85	\$730.55	\$177,725.33	\$1,192.13
3	\$177,725.33	\$592.42	\$732.98	\$176,992.34	\$1,784.55
4	\$176,992.34	\$589.97	\$735.43	\$176,256.92	\$2,374.53
5	\$176,256.92	\$587.52	\$737.88	\$175,519.04	\$2,962.05
6	\$175,519.04	\$585.06	\$740.34	\$174,778.70	\$3,547.11
7	\$174,778.70	\$582.60	\$742.81	\$174,035.89	\$4,129.71
8	\$174,035.89	\$580.12	\$745.28	\$173,290.61	\$4,709.83
9	\$173,290.61	\$577.64	\$747.77	\$172,542.84	\$5,287.46
10	\$172,542.84	\$575.14	\$750.26	\$171,792.58	\$5,862.61
11	\$171,792.58	\$572.64	\$752.76	\$171,039.82	\$6,435.25
12	\$171,039.82	\$570.13	\$755.27	\$170,284.55	\$7,005.38
13	\$170,284.55	\$567.62	\$757.79	\$169,526.76	\$7,572.99
14	\$169,526.76	\$565.09	\$760.31	\$168,766.45	\$8,138.08
15	\$168,766.45	\$562.55	\$762.85	\$168,003.60	\$8,700.64
16	\$168,003.60	\$560.01	\$765.39	\$167,238.21	\$9,260.65
17	\$167,238.21	\$557.46	\$767.94	\$166,470.27	\$9,818.11
18	\$166,470.27	\$554.90	\$770.50	\$165,699.77	\$10,373.01
19	\$165,699.77	\$552.33	\$773.07	\$164,926.70	\$10,925.35
20	\$164,926.70	\$549.76	\$775.65	\$164,151.05	\$11,475.10
21	\$164,151.05	\$547.17	\$778.23	\$163,372.82	\$12,022.27
22	\$163,372.82	\$544.58	\$780.83	\$162,591.99	\$12,566.85
23	\$162,591.99	\$541.97	\$783.43	\$161,808.56	\$13,108.82
23	\$161,808.56	\$539.36	\$786.04	\$161,022.52	\$13,648.18
24 25	\$161,022.52	\$536.74	\$788.66	\$160,233.86	\$13,040.18 \$14,184.92
25	· · ·			· · ·	
	\$160,233.86 \$150,442,57	\$534.11 \$521.48	\$791.29 \$703.03	\$159,442.57 \$158,648,65	\$14,719.04 \$15,250,51
27	\$159,442.57 \$159,648,65	\$531.48 \$528.82	\$793.93 \$706.57	\$158,648.65 \$157,852.07	\$15,250.51 \$15,770.34
28	\$158,648.65 \$157,852,07	\$528.83	\$796.57 \$700.32	\$157,852.07 \$157,052.84	\$15,779.34 \$16,205,51
29	\$157,852.07	\$526.17 \$523.51	\$799.23	\$157,052.84	\$16,305.51
30	\$157,052.84	\$523.51	\$801.89	\$156,250.95	\$16,829.02
31	\$156,250.95	\$520.84	\$804.57	\$155,446.39	\$17,349.86
32	\$155,446.39	\$518.15	\$807.25	\$154,639.14	\$17,868.02
33	\$154,639.14	\$515.46	\$809.94	\$153,829.20	\$18,383.48
34	\$153,829.20	\$512.76	\$812.64	\$153,016.56	\$18,896.24
35	\$153,016.56	\$510.06	\$815.35	\$152,201.21	\$19,406.30
36	\$152,201.21	\$507.34	\$818.07	\$151,383.15	\$19,913.64
37	\$151,383.15	\$504.61	\$820.79	\$150,562.36	\$20,418.25
38	\$150,562.36	\$501.87	\$823.53	\$149,738.83	\$20,920.12
39	\$149,738.83	\$499.13	\$826.27	\$148,912.56	\$21,419.25
40	\$148,912.56	\$496.38	\$829.03	\$148,083.53	\$21,915.63
41	\$148,083.53	\$493.61	\$831.79	\$147,251.74	\$22,409.24
42	\$147,251.74	\$490.84	\$834.56	\$146,417.17	\$22,900.08
43	\$146,417.17	\$488.06	\$837.35	\$145,579.83	\$23,388.13
44	\$145,579.83	\$485.27	\$840.14	\$144,739.69	\$23,873.40
45	\$144,739.69	\$482.47	\$842.94	\$143,896.76	\$24,355.87
46	\$143,896.76	\$479.66	\$845.75	\$143,051.01	\$24,835.52
47	\$143,051.01	\$476.84	\$848.57	\$142,202.44	\$25,312.36

0.007396879

Capital Cost Recovery Factor - A =

25.40

50	\$140,496.82	\$468.32	\$857.08	\$139,639.74	\$26,725.86
51	\$139,639.74	\$465.47	\$859.94	\$138,779.80	\$27,191.32
52	\$138,779.80	\$462.60	\$862.80	\$137,917.00	\$27,653.92
53	\$137,917.00	\$459.72	\$865.68	\$137,051.32	\$28,113.65
54	\$137,051.32	\$456.84	\$868.56	\$136,182.75	\$28,570.48
55	\$136,182.75	\$453.94	\$871.46	\$135,311.29	\$29,024.43
56	\$135,311.29	\$451.04	\$874.36	\$134,436.93	\$29,475.47
57	\$134,436.93	\$448.12	\$877.28	\$133,559.65	\$29,923.59
58	\$133,559.65	\$445.20	\$880.20	\$132,679.45	\$30,368.79
59	\$132,679.45	\$442.26	\$883.14	\$131,796.31	\$30,811.05
60	\$131,796.31	\$439.32	\$886.08	\$130,910.23	\$31,250.37
61	\$130,910.23	\$436.37	\$889.03	\$130,021.19	\$31,686.74

\$851.39

\$854.23

\$141,351.05

\$140,496.82

\$25,786.37

\$26,257.54

\$474.01

\$471.17

109

110

\$84,716.32

\$83,673.31

Estimated Capital Cost:	\$22,935,500
Number of Benefitting Properties:	128
Cost per Connection:	\$179,183.59

Monthly Cost -P = Loan Amount **Interest Rate Term in Years Monthly Payment** \$1,325.40 \$179,184.00 4.00% 15 \$1,325.40 Month EndingBalance StartingBalance Interest Principal **TotalInterest** 62 \$130,021.19 \$433.40 \$892.00 \$129,129.19 \$32,120.14 63 \$129,129.19 \$430.43 \$894.97 \$128,234.22 \$32,550.57 \$127,336.27 64 \$128,234.22 \$427.45 \$897.96 \$32,978.02 65 \$127,336.27 \$424.45 \$900.95 \$126,435.32 \$33,402.48 66 \$126,435.32 \$421.45 \$903.95 \$125,531.37 \$33,823.93 67 \$125,531.37 \$418.44 \$906.96 \$124,624.40 \$34,242.37 68 \$124,624.40 \$415.41 \$909.99 \$123,714.42 \$34,657.78 69 \$412.38 \$123,714.42 \$913.02 \$122,801.40 \$35,070.16 70 \$122,801.40 \$409.34 \$916.06 \$121,885.33 \$35,479.50 71 \$406.28 \$35,885.78 \$121,885.33 \$919.12 \$120,966.21 72 \$922.18 \$120,966.21 \$403.22 \$120,044.03 \$36,289.00 \$119,118.78 73 \$120,044.03 \$400.15 \$925.26 \$36,689.15 74 \$119,118.78 \$397.06 \$928.34 \$118,190.44 \$37,086.21 75 \$118,190.44 \$393.97 \$931.43 \$117,259.00 \$37,480.18 76 \$117,259.00 \$390.86 \$934.54 \$116,324.46 \$37,871.05 77 \$937.65 \$116,324.46 \$387.75 \$115,386.81 \$38,258.79 78 \$115,386.81 \$384.62 \$940.78 \$114,446.03 \$38,643.42 79 \$943.92 \$113,502.11 \$39,024.90 \$114,446.03 \$381.49 80 \$39,403.24 \$113,502.11 \$378.34 \$947.06 \$112,555.05 81 \$112,555.05 \$375.18 \$950.22 \$111,604.83 \$39,778.43 82 \$111,604.83 \$372.02 \$953.39 \$110,651.45 \$40,150.44 83 \$110,651.45 \$368.84 \$956.56 \$109,694.88 \$40,519.28 84 \$40,884.93 \$109,694.88 \$365.65 \$959.75 \$108,735.13 85 \$108,735.13 \$362.45 \$962.95 \$107,772.18 \$41,247.38 \$106,806.01 86 \$359.24 \$966.16 \$41,606.62 \$107,772.18 87 \$106,806.01 \$356.02 \$969.38 \$105,836.63 \$41,962.64 88 \$105,836.63 \$352.79 \$972.61 \$104,864.02 \$42,315.43 89 \$42,664.98 \$104,864.02 \$349.55 \$975.86 \$103,888.16 90 \$43,011.27 \$103,888.16 \$346.29 \$979.11 \$102,909.05 91 \$102,909.05 \$343.03 \$982.37 \$101,926.68 \$43,354.30 92 \$101,926.68 \$339.76 \$985.65 \$100,941.04 \$43,694.06 93 \$100,941.04 \$988.93 \$44,030.53 \$336.47 \$99,952.10 94 \$99,952.10 \$333.17 \$992.23 \$98,959.87 \$44,363.70 95 \$44,693.57 \$98,959.87 \$329.87 \$995.54 \$97,964.34 96 \$97,964.34 \$326.55 \$998.85 \$96,965.48 \$45,020.11 97 \$45,343.33 \$96,965.48 \$323.22 \$1,002.18 \$95,963.30 98 \$95,963.30 \$319.88 \$1,005.52 \$94,957.77 \$45,663.21 99 \$1,008.88 \$45,979.74 \$94,957.77 \$316.53 \$93,948.90 100 \$93,948.90 \$313.16 \$1,012.24 \$92,936.66 \$46,292.90 101 \$92,936.66 \$309.79 \$1,015.61 \$91,921.04 \$46,602.69 102 \$306.40 \$1,019.00 \$91,921.04 \$90,902.05 \$46,909.09 103 \$90,902.05 \$303.01 \$1,022.40 \$89,879.65 \$47,212.10 104 \$299.60 \$1,025.80 \$89,879.65 \$88,853.85 \$47,511.70 105 \$1,029.22 \$88,853.85 \$296.18 \$87,824.62 \$47,807.88 106 \$87,824.62 \$292.75 \$1,032.65 \$86,791.97 \$48,100.63 107 \$48,389.93 \$86,791.97 \$289.31 \$1,036.10 \$85,755.87 108 \$85,755.87 \$285.85 \$1,039.55 \$84,716.32 \$48,675.79

0.007396879

Capital Cost Recovery Factor - A =

\$82,626.82	\$275.42	\$1,049.98	\$81,576.84	\$49,512.51
\$81,576.84	\$271.92	\$1,053.48	\$80,523.36	\$49,784.43
\$80,523.36	\$268.41	\$1,056.99	\$79,466.37	\$50,052.84
\$79,466.37	\$264.89	\$1,060.51	\$78,405.85	\$50,317.73
\$78,405.85	\$261.35	\$1,064.05	\$77,341.80	\$50,579.08
\$77,341.80	\$257.81	\$1,067.60	\$76,274.21	\$50,836.89
\$76,274.21	\$254.25	\$1,071.16	\$75,203.05	\$51,091.14
\$75,203.05	\$250.68	\$1,074.73	\$74,128.33	\$51,341.81
\$74,128.33	\$247.09	\$1,078.31	\$73,050.02	\$51,588.91
\$73,050.02	\$243.50	\$1,081.90	\$71,968.12	\$51,832.41
\$71,968.12	\$239.89	\$1,085.51	\$70,882.61	\$52,072.30
\$70,882.61	\$236.28	\$1,089.13	\$69,793.48	\$52,308.58
	\$81,576.84 \$80,523.36 \$79,466.37 \$78,405.85 \$77,341.80 \$76,274.21 \$75,203.05 \$74,128.33 \$73,050.02 \$71,968.12	\$81,576.84\$271.92\$80,523.36\$268.41\$79,466.37\$264.89\$78,405.85\$261.35\$77,341.80\$257.81\$76,274.21\$254.25\$75,203.05\$250.68\$74,128.33\$247.09\$73,050.02\$243.50\$71,968.12\$239.89	\$81,576.84\$271.92\$1,053.48\$80,523.36\$268.41\$1,056.99\$79,466.37\$264.89\$1,060.51\$78,405.85\$261.35\$1,064.05\$77,341.80\$257.81\$1,067.60\$76,274.21\$254.25\$1,071.16\$75,203.05\$250.68\$1,074.73\$74,128.33\$247.09\$1,078.31\$73,050.02\$243.50\$1,081.90\$71,968.12\$239.89\$1,085.51	\$81,576.84\$271.92\$1,053.48\$80,523.36\$80,523.36\$268.41\$1,056.99\$79,466.37\$79,466.37\$264.89\$1,060.51\$78,405.85\$78,405.85\$261.35\$1,064.05\$77,341.80\$77,341.80\$257.81\$1,067.60\$76,274.21\$76,274.21\$254.25\$1,071.16\$75,203.05\$75,203.05\$250.68\$1,074.73\$74,128.33\$74,128.33\$247.09\$1,078.31\$73,050.02\$73,050.02\$243.50\$1,081.90\$71,968.12\$71,968.12\$239.89\$1,085.51\$70,882.61

\$1,043.01

\$1,046.49

\$83,673.31

\$82,626.82

\$48,958.17

\$49,237.08

\$282.39

\$278.91

170

171

Estimated Capital Cost:	\$22,935,500
Number of Benefitting Properties:	128
Cost per Connection:	\$179,183.59

Loan Amount	Interest Rate	Term in Years	Monthly Payment		Monthly Cost -P =
\$179,184.00	4.00%	15	\$1,325.40		
					T-A-II-A
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest
123	\$69,793.48	\$232.64	\$1,092.76	\$68,700.72	\$52,541.22
124	\$68,700.72	\$229.00	\$1,096.40	\$67,604.32	\$52,770.22
125	\$67,604.32	\$225.35	\$1,100.05	\$66,504.27	\$52,995.57
126	\$66,504.27	\$221.68	\$1,103.72	\$65,400.55	\$53,217.25
127	\$65,400.55	\$218.00	\$1,107.40	\$64,293.15	\$53,435.25
128	\$64,293.15	\$214.31	\$1,111.09	\$63,182.06	\$53,649.56
129	\$63,182.06	\$210.61	\$1,114.80	\$62,067.26	\$53,860.17
130	\$62,067.26	\$206.89	\$1,118.51	\$60,948.75	\$54,067.06
131	\$60,948.75	\$203.16	\$1,122.24	\$59,826.51	\$54,270.22
132	\$59,826.51	\$199.42	\$1,125.98	\$58,700.53	\$54,469.65
133	\$58,700.53	\$195.67	\$1,129.73	\$57,570.79	\$54,665.31
134	\$57,570.79	\$191.90	\$1,133.50	\$56,437.29	\$54,857.22
135	\$56,437.29	\$188.12	\$1,137.28	\$55,300.02	\$55,045.34
136	\$55,300.02	\$184.33	\$1,141.07	\$54,158.95	\$55,229.67
137	\$54,158.95	\$180.53	\$1,144.87	\$53,014.07	\$55,410.20
138	\$53,014.07	\$176.71	\$1,148.69	\$51,865.38	\$55,586.92
139	\$51,865.38	\$172.88	\$1,152.52	\$50,712.87	\$55,759.80
140	\$50,712.87	\$169.04	\$1,156.36	\$49,556.51	\$55,928.85
141	\$49,556.51	\$165.19	\$1,160.21	\$48,396.29	\$56,094.03
142	\$48,396.29	\$161.32	\$1,164.08	\$47,232.21	\$56,255.35
143	\$47,232.21	\$157.44	\$1,167.96	\$46,064.25	\$56,412.80
144	\$46,064.25	\$153.55	\$1,171.85	\$44,892.40	\$56,566.34
145	\$44,892.40	\$149.64	\$1,175.76	\$43,716.63	\$56,715.98
146	\$43,716.63	\$145.72	\$1,179.68	\$42,536.95	\$56,861.71
147	\$42,536.95	\$141.79	\$1,183.61	\$41,353.34	\$57,003.50
148	\$41,353.34	\$137.84	\$1,187.56	\$40,165.78	\$57,141.34
149	\$40,165.78	\$133.89	\$1,191.52	\$38,974.27	\$57,275.23
150	\$38,974.27	\$129.91	\$1,195.49	\$37,778.78	\$57,405.14
151	\$37,778.78	\$125.93	\$1,199.47	\$36,579.31	\$57,531.07
152	\$36,579.31	\$121.93	\$1,203.47	\$35,375.83	\$57,653.00
153	\$35,375.83	\$117.92	\$1,207.48	\$34,168.35	\$57,770.92
154	\$34,168.35	\$113.89	\$1,211.51	\$32,956.84	\$57,884.82
155	\$32,956.84	\$109.86	\$1,215.55	\$31,741.30	\$57,994.67
156	\$31,741.30	\$105.80	\$1,219.60	\$30,521.70	\$58,100.48
157	\$30,521.70	\$101.74	\$1,223.66	\$29,298.04	\$58,202.21
158	\$29,298.04	\$97.66	\$1,227.74	\$28,070.29	\$58,299.87
159	\$28,070.29	\$93.57	\$1,231.83	\$26,838.46	\$58,393.44
160	\$26,838.46	\$89.46	\$1,235.94	\$25,602.52	\$58,482.90
161	\$25,602.52	\$85.34	\$1,230.94	\$23,362.46	\$58,568.25
162	\$25,602.52 \$24,362.46	\$85.34 \$81.21	\$1,240.00	\$23,118.26	\$58,649.45
162	\$23,118.26	\$77.06	\$1,248.34	\$23,116.26	\$58,726.51
164	\$21,869.92 \$20,617,42	\$72.90 \$68.72	\$1,252.50 \$1,256.68	\$20,617.42 \$10,360,74	\$58,799.41 \$58,868,14
165	\$20,617.42	\$68.72 \$64.54	\$1,256.68	\$19,360.74 \$18,000,87	\$58,868.14 \$58,022.67
166	\$19,360.74	\$64.54	\$1,260.87	\$18,099.87	\$58,932.67
167	\$18,099.87	\$60.33	\$1,265.07	\$16,834.80 \$15,565,52	\$58,993.01
168	\$16,834.80	\$56.12	\$1,269.29	\$15,565.52	\$59,049.12
169	\$15,565.52	\$51.89	\$1,273.52	\$14,292.00	\$59,101.01

0.007396879

25.40

Capital Cost Recovery Factor - A =

172	\$11,732.22	\$39.11	\$1,286.30	\$10,445.92	\$59,231.14
173	\$10,445.92	\$34.82	\$1,290.58	\$9,155.34	\$59,265.96
174	\$9,155.34	\$30.52	\$1,294.88	\$7,860.45	\$59,296.47
175	\$7,860.45	\$26.20	\$1,299.20	\$6,561.25	\$59,322.68
176	\$6,561.25	\$21.87	\$1,303.53	\$5,257.72	\$59,344.55
177	\$5,257.72	\$17.53	\$1,307.88	\$3,949.85	\$59,362.07
178	\$3,949.85	\$13.17	\$1,312.24	\$2,637.61	\$59,375.24
179	\$2,637.61	\$8.79	\$1,316.61	\$1,321.00	\$59,384.03
180	\$1,321.00	\$4.40	\$1,321.00	\$0.00	\$59,388.43

\$1,277.76

\$1,282.02

\$13,014.24

\$11,732.22

\$59,148.65

\$59,192.03

\$47.64

\$43.38

\$14,292.00

\$13,014.24

49

\$153,799.67

Estimated Capital Cost:	\$22,935,500
Number of Benefitting Properties:	128
Cost per Connection:	\$179,183.59

0.006059803

Loan Amount	Interest Rate	Term in Years	Monthly Payment		Monthly Cost -P =
\$179,184.00	4.00%	20	\$1,085.82		,
φ175,104.00	4.0070	20	ψ1,000.02		
Month	Starting Balance	Interest	Principal	Ending Balance	Total Interest
1	\$179,184.00	\$597.28	\$488.54	\$178,695.46	\$597.28
2	\$178,695.46	\$595.65	\$490.17	\$178,205.29	\$1,192.93
3	\$178,205.29	\$594.02	\$491.80	\$177,713.49	\$1,786.95
4	\$177,713.49	\$592.38	\$493.44	\$177,220.05	\$2,379.33
5	\$177,220.05	\$590.73	\$495.09	\$176,724.96	\$2,970.06
6	\$176,724.96	\$589.08	\$496.74	\$176,228.23	\$3,559.14
7	\$176,228.23	\$587.43	\$498.39	\$175,729.83	\$4,146.57
8	\$175,729.83	\$585.77	\$500.05	\$175,229.78	\$4,732.34
9	\$175,229.78	\$584.10	\$501.72	\$174,728.06	\$5,316.44
10	\$174,728.06	\$582.43	\$503.39	\$174,224.67	\$5,898.86
11	\$174,224.67	\$580.75	\$505.07	\$173,719.59	\$6,479.61
12	\$173,719.59	\$579.07	\$506.75	\$173,212.84	\$7,058.68
13	\$173,212.84	\$577.38	\$508.44	\$172,704.40	\$7,636.05
14	\$172,704.40	\$575.68	\$510.14	\$172,194.26	\$8,211.74
15	\$172,194.26	\$573.98	\$511.84	\$171,682.42	\$8,785.72
16	\$171,682.42	\$572.27	\$513.55	\$171,168.87	\$9,357.99
17	\$171,168.87	\$570.56	\$515.26	\$170,653.62	\$9,928.55
18	\$170,653.62	\$568.85	\$516.97	\$170,136.64	\$10,497.40
19	\$170,136.64	\$567.12	\$518.70	\$169,617.95	\$11,064.52
20	\$169,617.95	\$565.39	\$520.43	\$169,097.52	\$11,629.91
20	\$169,097.52	\$563.66	\$522.16	\$168,575.36	\$12,193.57
22	\$168,575.36	\$561.92	\$523.90	\$168,051.46	\$12,755.49
23	\$168,051.46	\$560.17	\$525.65	\$167,525.81	\$13,315.66
23	\$167,525.81	\$558.42	\$527.40	\$166,998.41	\$13,874.08
25	\$166,998.41	\$556.66	\$529.16	\$166,469.25	\$14,430.74
26	\$166,469.25	\$554.90	\$530.92	\$165,938.33	\$14,985.64
20	\$165,938.33	\$553.13	\$532.69	\$165,405.63	\$15,538.77
28	\$165,405.63	\$551.35	\$534.47	\$164,871.17	\$16,090.12
29	\$164,871.17	\$549.57	\$536.25	\$164,334.92	\$16,639.69
30	\$164,334.92	\$547.78	\$538.04	\$163,796.88	\$17,187.47
31	\$163,796.88	\$545.99	\$539.83	\$163,257.05	\$17,733.46
32	\$163,257.05	\$544.19	\$539.83 \$541.63	\$162,715.42	\$18,277.65
33	\$162,715.42	\$542.38	\$543.44	\$162,171.99	\$18,820.04
33	· · · ·		\$543.44 \$545.25		
34 35	\$162,171.99 \$161,626.74	\$540.57 \$538.76	\$545.25 \$547.06	\$161,626.74 \$161,079.67	\$19,360.61 \$19,899.37
36	\$161,079.67	\$536.93	\$548.89	\$160,530.79	\$20,436.30
36 37	\$160,530.79	\$535.10	\$548.89 \$550.72	\$159,980.07	\$20,436.30 \$20,971.40
38	\$159,980.07	\$533.27	\$550.72	\$159,980.07 \$159,427.52	\$20,971.40 \$21,504.67
39				\$158,873.12	
	\$159,427.52 \$158,873,12	\$531.43 \$520.58	\$554.39 \$556.24		\$22,036.09 \$22,565,67
40	\$158,873.12 \$158,216,88	\$529.58 \$527.72	\$556.24 \$558.10	\$158,316.88 \$157,758,78	\$22,565.67 \$22,002,20
41	\$158,316.88 \$157,758,78	\$527.72 \$525.86	\$558.10 \$559.96	\$157,758.78 \$157,108,83	\$23,093.39 \$23,610,26
42	\$157,758.78 \$157,108,82	\$525.86 \$524.00	\$559.96 \$561.82	\$157,198.83 \$156,637,00	\$23,619.26 \$24,142,25
43	\$157,198.83 \$156,627,00	\$524.00	\$561.82 \$562.70	\$156,637.00 \$156,072.31	\$24,143.25 \$24,665,28
44	\$156,637.00 \$156,072.21	\$522.12	\$563.70 \$565.58	\$156,073.31 \$155,507,73	\$24,665.38 \$25,185,62
45	\$156,073.31	\$520.24	\$565.58	\$155,507.73	\$25,185.62 \$25,702.08
46	\$155,507.73	\$518.36	\$567.46	\$154,940.27	\$25,703.98
47	\$154,940.27	\$516.47	\$569.35	\$154,370.92 \$152,300,67	\$26,220.45 \$26,735,02
48 49	\$154,370.92 \$153,799,67	\$514.57 \$512.67	\$571.25 \$573.15	\$153,799.67 \$153,226,51	\$26,735.02 \$27,247,68
// U		\$517.67	50/315		S/////////////////////////////////////

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50	\$153,226.51	\$510.76	\$575.06	\$152,651.45	\$27,758.44
51	\$152,651.45	\$508.84	\$576.98	\$152,074.47	\$28,267.28
52	\$152,074.47	\$506.91	\$578.90	\$151,495.56	\$28,774.19
53	\$151,495.56	\$504.99	\$580.83	\$150,914.73	\$29,279.18
54	\$150,914.73	\$503.05	\$582.77	\$150,331.96	\$29,782.23
55	\$150,331.96	\$501.11	\$584.71	\$149,747.24	\$30,283.33
56	\$149,747.24	\$499.16	\$586.66	\$149,160.58	\$30,782.49
57	\$149,160.58	\$497.20	\$588.62	\$148,571.96	\$31,279.69
58	\$148,571.96	\$495.24	\$590.58	\$147,981.38	\$31,774.93
59	\$147,981.38	\$493.27	\$592.55	\$147,388.83	\$32,268.20
60	\$147,388.83	\$491.30	\$594.52	\$146,794.31	\$32,759.50
61	\$146,794.31	\$489.31	\$596.51	\$146,197.81	\$33,248.81

\$512.67

\$573.15

\$153,226,51

\$27,247.68

Capital Cost Recovery Factor - A =

Estimated Capital Cost:	\$22,935,500
Number of Benefitting Properties:	128
Cost per Connection:	\$179,183.59

Capital Cost Recovery Factor - A =

\$54,654.33

0.006059803

				Capital Cost	Recovery Factor - A =	0.000059603
Loan Amount	Interest Rate	Term in Years	Monthly Payment		Monthly Cost -P =	\$1,085.82
\$179,184.00	4.00%	20	\$1,085.82			
Month	Starting Balance	Interest	Principal	Ending Balance	Total Interest	
62	\$146,197.81	\$487.33	\$598.49	\$145,599.31	\$33,736.14	
63	\$145,599.31	\$485.33	\$600.49	\$144,998.82	\$34,221.47	
64	\$144,998.82	\$483.33	\$602.49	\$144,396.33	\$34,704.80	
65	\$144,396.33	\$481.32	\$604.50	\$143,791.83	\$35,186.12	
66	\$143,791.83	\$479.31	\$606.51	\$143,185.32	\$35,665.43	
67	\$143,185.32	\$477.28	\$608.54	\$142,576.78	\$36,142.71	
68	\$142,576.78	\$475.26	\$610.56	\$141,966.22	\$36,617.97	
69	\$141,966.22	\$473.22	\$612.60	\$141,353.62	\$37,091.19	
70	\$141,353.62	\$471.18	\$614.64	\$140,738.98	\$37,562.37	
71	\$140,738.98	\$469.13	\$616.69	\$140,122.29	\$38,031.50	
72	\$140,122.29	\$467.07	\$618.75	\$139,503.55	\$38,498.57	
73	\$139,503.55	\$465.01	\$620.81	\$138,882.74	\$38,963.58	
74	\$138,882.74	\$462.94	\$622.88	\$138,259.86	\$39,426.52	
75	\$138,259.86	\$460.87	\$624.95	\$137,634.91	\$39,887.39	
76	\$137,634.91	\$458.78	\$627.04	\$137,007.87	\$40,346.17	
77	\$137,007.87	\$456.69	\$629.13	\$136,378.74	\$40,802.87	
78	\$136,378.74	\$454.60	\$631.22	\$135,747.52	\$41,257.46	
79	\$135,747.52	\$452.49	\$633.33	\$135,114.19	\$41,709.95	
80	\$135,114.19	\$450.38	\$635.44	\$134,478.75	\$42,160.34	
81	\$134,478.75	\$448.26	\$637.56	\$133,841.19	\$42,608.60	
82	\$133,841.19	\$446.14	\$639.68	\$133,201.51	\$43,054.74	
83	\$133,201.51	\$444.01	\$641.81	\$132,559.70	\$43,498.74	
84	\$132,559.70	\$441.87	\$643.95	\$131,915.74	\$43,940.61	
85	\$131,915.74	\$439.72	\$646.10	\$131,269.64	\$44,380.32	
86	\$131,269.64	\$437.57	\$648.25	\$130,621.39	\$44,817.89	
87	\$130,621.39	\$435.40	\$650.42	\$129,970.97	\$45,253.29	
88	\$129,970.97	\$433.24	\$652.58	\$129,318.39	\$45,686.53	
89	\$129,318.39	\$431.06	\$654.76	\$128,663.63	\$46,117.59	
90	\$128,663.63	\$428.88	\$656.94	\$128,006.69	\$46,546.47	
91	\$128,006.69	\$426.69	\$659.13	\$127,347.56	\$46,973.16	
92	\$127,347.56	\$424.49	\$661.33	\$126,686.23	\$47,397.65	
93	\$126,686.23	\$422.29	\$663.53	\$126,022.70	\$47,819.94	
94	\$126,022.70	\$420.08	\$665.74	\$125,356.95	\$48,240.02	
95	\$125,356.95	\$417.86	\$667.96	\$124,688.99	\$48,657.87	
96	\$124,688.99	\$415.63	\$670.19	\$124,018.80	\$49,073.50	
97	\$124,018.80	\$413.40	\$672.42	\$123,346.38	\$49,486.90	
98	\$123,346.38	\$411.15	\$674.67	\$122,671.71	\$49,898.05	
99	\$122,671.71	\$408.91	\$676.91	\$121,994.80	\$50,306.96	
100	\$121,994.80	\$406.65	\$679.17	\$121,315.63	\$50,713.61	
101	\$121,315.63	\$404.39	\$681.43	\$120,634.19	\$51,117.99	
102	\$120,634.19	\$402.11	\$683.71	\$119,950.49	\$51,520.11	
102	\$119,950.49	\$399.83	\$685.98	\$119,264.50	\$51,919.94	
103	\$119,264.50	\$397.55	\$688.27	\$118,576.23	\$52,317.49	
104	\$118,576.23	\$395.25	\$690.57	\$117,885.67	\$52,712.74	
105	\$117,885.67	\$392.95	\$692.87	\$117,192.80	\$53,105.70	
100	\$117,192.80	\$390.64	\$695.18	\$116,497.62	\$53,496.34	
107	\$116,497.62	\$388.33	\$697.49	\$115,800.13	\$53,884.66	
109	\$115,800.13	\$386.00	\$699.82	\$115,100.31	\$54,270.67	
103	φ110,000.10	φ000.00	ψ033.0Z	φ110,100.01	ψ07,210.01	

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111	\$114,398.16	\$381.33	\$704.49	\$113,693.66	\$55,035.66
112	\$113,693.66	\$378.98	\$706.84	\$112,986.82	\$55,414.64
113	\$112,986.82	\$376.62	\$709.20	\$112,277.63	\$55,791.26
114	\$112,277.63	\$374.26	\$711.56	\$111,566.06	\$56,165.52
115	\$111,566.06	\$371.89	\$713.93	\$110,852.13	\$56,537.41
116	\$110,852.13	\$369.51	\$716.31	\$110,135.82	\$56,906.91
117	\$110,135.82	\$367.12	\$718.70	\$109,417.12	\$57,274.03
118	\$109,417.12	\$364.72	\$721.10	\$108,696.02	\$57,638.76
119	\$108,696.02	\$362.32	\$723.50	\$107,972.52	\$58,001.08
120	\$107,972.52	\$359.91	\$725.91	\$107,246.61	\$58,360.99
121	\$107,246.61	\$357.49	\$728.33	\$106,518.28	\$58,718.47
122	\$106,518.28	\$355.06	\$730.76	\$105,787.52	\$59,073.54

\$702.15

\$114,398.16

\$383.67

\$115,100,31

110

Estimated Capital Cost:	\$22,935,500
Number of Benefitting Properties:	128
Cost per Connection:	\$179,183.59

Capital Cost Recovery Factor - A =

0.006059803

Loan Amount	Interest Rate	Term in Years	Monthly Payment		Monthly Cost -P =
\$179,184.00	4.00%	20	\$1,085.82		
φ179,104.00	4.00%	20	φ1,003.02		
Month	Starting Balance	Interest	Principal	Ending Balance	Total Interest
123	\$105,787.52	\$352.63	\$733.19	\$105,054.33	\$59,426.16
124	\$105,054.33	\$350.18	\$735.64	\$104,318.69	\$59,776.34
125	\$104,318.69	\$347.73	\$738.09	\$103,580.60	\$60,124.07
126	\$103,580.60	\$345.27	\$740.55	\$102,840.05	\$60,469.34
127	\$102,840.05	\$342.80	\$743.02	\$102,097.03	\$60,812.14
128	\$102,097.03	\$340.32	\$745.50	\$101,351.53	\$61,152.46
129	\$101,351.53	\$337.84	\$747.98	\$100,603.55	\$61,490.30
130	\$100,603.55	\$335.35	\$750.47	\$99,853.07	\$61,825.65
131	\$99,853.07	\$332.84	\$752.98	\$99,100.10	\$62,158.49
132	\$99,100.10	\$330.33	\$755.49	\$98,344.61	\$62,488.82
133	\$98,344.61	\$327.82	\$758.00	\$97,586.61	\$62,816.64
134	\$97,586.61	\$325.29	\$760.53	\$96,826.08	\$63,141.93
135	\$96,826.08	\$322.75	\$763.07	\$96,063.01	\$63,464.68
136	\$96,063.01	\$320.21	\$765.61	\$95,297.40	\$63,784.89
137	\$95,297.40	\$317.66	\$768.16	\$94,529.24	\$64,102.55
138	\$94,529.24	\$315.10	\$770.72	\$93,758.52	\$64,417.65
139	\$93,758.52	\$312.53	\$773.29	\$92,985.22	\$64,730.18
140	\$92,985.22	\$309.95	\$775.87	\$92,209.36	\$65,040.13
141	\$92,209.36	\$307.36	\$778.46	\$91,430.90	\$65,347.49
142	\$91,430.90	\$304.77	\$781.05	\$90,649.85	\$65,652.26
143	\$90,649.85	\$302.17	\$783.65	\$89,866.20	\$65,954.43
144	\$89,866.20	\$299.55	\$786.27	\$89,079.93	\$66,253.98
145	\$89,079.93	\$296.93	\$788.89	\$88,291.04	\$66,550.91
146	\$88,291.04	\$294.30	\$791.52	\$87,499.53	\$66,845.22
147	\$87,499.53	\$291.67	\$794.15	\$86,705.37	\$67,136.88
148	\$86,705.37	\$289.02	\$796.80	\$85,908.57	\$67,425.90
149	\$85,908.57	\$286.36	\$799.46	\$85,109.11	\$67,712.26
150	\$85,109.11	\$283.70	\$802.12	\$84,306.99	\$67,995.96
151	\$84,306.99	\$281.02	\$804.80	\$83,502.19	\$68,276.98
152	\$83,502.19	\$278.34	\$807.48	\$82,694.71	\$68,555.32
153	\$82,694.71	\$275.65	\$810.17	\$81,884.54	\$68,830.97
154	\$81,884.54	\$272.95	\$812.87	\$81,071.67	\$69,103.92
155	\$81,071.67	\$270.24	\$815.58	\$80,256.09	\$69,374.16
156	\$80,256.09	\$267.52	\$818.30	\$79,437.79	\$69,641.68
157	\$79,437.79	\$264.79	\$821.03	\$78,616.76	\$69,906.47
158	\$78,616.76	\$262.06	\$823.76	\$77,793.00	\$70,168.53
159	\$77,793.00	\$259.31	\$826.51	\$76,966.49	\$70,427.84
160	\$76,966.49	\$256.55	\$829.26	\$76,137.23	\$70,684.39
161	\$76,137.23	\$253.79	\$832.03	\$75,305.20	\$70,938.18
162	\$75,305.20	\$251.02	\$834.80	\$74,470.39	\$71,189.20
163	\$74,470.39	\$248.23	\$837.59	\$73,632.81	\$71,437.44
164	\$73,632.81	\$245.44	\$840.38	\$72,792.43	\$71,682.88
165	\$72,792.43	\$242.64	\$843.18	\$71,949.25	\$71,925.52
166	\$71,949.25	\$239.83	\$845.99	\$71,103.27	\$72,165.35
167	\$71,103.27	\$237.01	\$848.81	\$70,254.46	\$72,402.36
168	\$70,254.46	\$234.18	\$851.64	\$69,402.82	\$72,636.54
169	\$69,402.82	\$231.34	\$854.48	\$68,548.34	\$72,867.89
170	\$68,548.34	\$228.49	\$857.33	\$67,691.02	\$73,096.38
171	¢67 601 02	¢225.64	¢ 960.19	¢66,920,92	\$72,222,02

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172	\$66,830.83	\$222.77	\$863.05	\$65,967.78	\$73,544.79
173	\$65,967.78	\$219.89	\$865.93	\$65,101.85	\$73,764.68
174	\$65,101.85	\$217.01	\$868.81	\$64,233.04	\$73,981.69
175	\$64,233.04	\$214.11	\$871.71	\$63,361.33	\$74,195.80
176	\$63,361.33	\$211.20	\$874.62	\$62,486.72	\$74,407.00
177	\$62,486.72	\$208.29	\$877.53	\$61,609.19	\$74,615.29
178	\$61,609.19	\$205.36	\$880.46	\$60,728.73	\$74,820.65
179	\$60,728.73	\$202.43	\$883.39	\$59,845.34	\$75,023.08
180	\$59,845.34	\$199.48	\$886.34	\$58,959.00	\$75,222.57
181	\$58,959.00	\$196.53	\$889.29	\$58,069.71	\$75,419.10
182	\$58,069.71	\$193.57	\$892.25	\$57,177.46	\$75,612.66
183	\$57,177.46	\$190.59	\$895.23	\$56,282.23	\$75,803.25

\$860.18

\$66,830.83

\$73,322.02

\$225.64

\$67.691.02

171

232

Estimated Capital Cost:	\$22,935,500
Number of Benefitting Properties:	128
Cost per Connection:	\$179,183.59

0.006059803

				Capital Cost	Recovery Factor - A =	0.006059803
Loan Amount	Interest Rate	Term in Years	Monthly Payment		Monthly Cost -P =	\$1,085.82
\$179,184.00	4.00%	20	\$1,085.82			
Month	Starting Balance	Interest	Principal	Ending Balance	Total Interest	
184	\$56,282.23	\$187.61	\$898.21	\$55,384.02	\$75,990.86	
185	\$55,384.02	\$184.61	\$901.21	\$54,482.81	\$76,175.47	
186	\$54,482.81	\$181.61	\$904.21	\$53,578.60	\$76,357.08	
187	\$53,578.60	\$178.60	\$907.22	\$52,671.38	\$76,535.68	
188	\$52,671.38	\$175.57	\$910.25	\$51,761.13	\$76,711.25	
189	\$51,761.13	\$172.54	\$913.28	\$50,847.85	\$76,883.79	
190	\$50,847.85	\$169.49	\$916.33	\$49,931.52	\$77,053.28	
191	\$49,931.52	\$166.44	\$919.38	\$49,012.14	\$77,219.72	
192	\$49,012.14	\$163.37	\$922.45	\$48,089.69	\$77,383.09	
193	\$48,089.69	\$160.30	\$925.52	\$47,164.17	\$77,543.39	
194	\$47,164.17	\$157.21	\$928.61	\$46,235.57	\$77,700.61	
195	\$46,235.57	\$154.12	\$931.70	\$45,303.86	\$77,854.72	
196	\$45,303.86	\$151.01	\$934.81	\$44,369.06	\$78,005.74	
197	\$44,369.06	\$147.90	\$937.92	\$43,431.13	\$78,153.63	
198	\$43,431.13	\$144.77	\$941.05	\$42,490.09	\$78,298.40	
199	\$42,490.09	\$141.63	\$944.19	\$41,545.90	\$78,440.04	
200	\$41,545.90	\$138.49	\$947.33	\$40,598.57	\$78,578.52	
201	\$40,598.57	\$135.33	\$950.49	\$39,648.07	\$78,713.85	
202	\$39,648.07	\$132.16	\$953.66	\$38,694.41	\$78,846.01	
203	\$38,694.41	\$128.98	\$956.84	\$37,737.58	\$78,974.99	
204	\$37,737.58	\$125.79	\$960.03	\$36,777.55	\$79,100.79	
205	\$36,777.55	\$122.59	\$963.23	\$35,814.32	\$79,223.38	
206	\$35,814.32	\$119.38	\$966.44	\$34,847.88	\$79,342.76	
207	\$34,847.88	\$116.16	\$969.66	\$33,878.22	\$79,458.92	
208	\$33,878.22	\$112.93	\$972.89	\$32,905.33	\$79,571.85	
209	\$32,905.33	\$109.68	\$976.14	\$31,929.19	\$79,681.53	
210	\$31,929.19	\$106.43	\$979.39	\$30,949.80	\$79,787.96	
211	\$30,949.80	\$103.17	\$982.65	\$29,967.15	\$79,891.13	
212	\$29,967.15	\$99.89	\$985.93	\$28,981.22	\$79,991.02	
213	\$28,981.22	\$96.60	\$989.22	\$27,992.01	\$80,087.62	
214	\$27,992.01	\$93.31	\$992.51	\$26,999.49	\$80,180.93	
215	\$26,999.49	\$90.00	\$995.82	\$26,003.67	\$80,270.93	
216	\$26,003.67	\$86.68	\$999.14	\$25,004.53	\$80,357.61	
217	\$25,004.53	\$83.35	\$1,002.47	\$24,002.06	\$80,440.95	
218	\$24,002.06	\$80.01	\$1,005.81	\$22,996.25	\$80,520.96	
219	\$22,996.25	\$76.65	\$1,009.17	\$21,987.08	\$80,597.62	
220	\$21,987.08	\$73.29	\$1,012.53	\$20,974.55	\$80,670.91	
221	\$20,974.55	\$69.92	\$1,015.90	\$19,958.65	\$80,740.82	
222	\$19,958.65	\$66.53	\$1,019.29	\$18,939.36	\$80,807.35	
223	\$18,939.36	\$63.13	\$1,022.69	\$17,916.67	\$80,870.48	
224	\$17,916.67	\$59.72	\$1,026.10	\$16,890.57	\$80,930.20	
225	\$16,890.57	\$56.30	\$1,029.52	\$15,861.05	\$80,986.50	
226	\$15,861.05	\$52.87	\$1,032.95	\$14,828.10	\$81,039.38	
227	\$14,828.10	\$49.43	\$1,036.39	\$13,791.71	\$81,088.80	
228	\$13,791.71	\$45.97	\$1,039.85	\$12,751.86	\$81,134.77	
229	\$12,751.86	\$42.51	\$1,043.31	\$11,708.55	\$81,177.28	
230	\$11,708.55	\$39.03	\$1,046.79	\$10,661.76	\$81,216.31	
231	\$10,661.76	\$35.54	\$1,050.28	\$9,611.48	\$81,251.85	
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233	\$8,557.69	\$28.53	\$1,057.29	\$7,500.40	\$81,312.41	
234	\$7,500.40	\$25.00	\$1,060.82	\$6,439.58	\$81,337.41	
235	\$6,439.58	\$21.47	\$1,064.35	\$5,375.23	\$81,358.88	
236	\$5,375.23	\$17.92	\$1,067.90	\$4,307.33	\$81,376.80	
237	\$4,307.33	\$14.36	\$1,071.46	\$3,235.86	\$81,391.15	
238	\$3,235.86	\$10.79	\$1,075.03	\$2,160.83	\$81,401.94	
239	\$2,160.83	\$7.20	\$1,078.62	\$1,082.21	\$81,409.14	
240	\$1,082.21	\$3.61	\$1,082.21	\$0.00	\$81,412.75	

\$9,611.48 \$32.04 \$1,053.78 \$8,557.69 \$81,283.89

Capital Cost Recovery Factor - A =

46

47

\$104,702.39

\$103,471.28

Estimated Capital Cost:	\$19,976,700
Number of Benefitting Properties:	128
Cost per Connection:	\$156,067.97

Loan Amount	Interest Rate	Term in Years	Monthly Payment		Monthly Cost -P =
\$156,068.00	4.00%	10	\$1,580.11		
φ100,000.00	4.0070	10	ψ1,000.11		
Month	Starting Balance	Interest	Principal	Ending Balance	Total Interest
1	\$156,068.00	\$520.23	\$1,059.89	\$155,008.11	\$520.23
2	\$155,008.11	\$516.69	\$1,063.42	\$153,944.70	\$1,036.92
3	\$153,944.70	\$513.15	\$1,066.96	\$152,877.73	\$1,550.07
4	\$152,877.73	\$509.59	\$1,070.52	\$151,807.21	\$2,059.66
5	\$151,807.21	\$506.02	\$1,074.09	\$150,733.12	\$2,565.69
6	\$150,733.12	\$502.44	\$1,077.67	\$149,655.45	\$3,068.13
7	\$149,655.45	\$498.85	\$1,081.26	\$148,574.19	\$3,566.98
8	\$148,574.19	\$495.25	\$1,084.87	\$147,489.33	\$4,062.23
9	\$147,489.33	\$491.63	\$1,088.48	\$146,400.85	\$4,553.86
10	\$146,400.85	\$488.00	\$1,092.11	\$145,308.74	\$5,041.86
11	\$145,308.74	\$484.36	\$1,095.75	\$144,212.99	\$5,526.22
12	\$144,212.99	\$480.71	\$1,099.40	\$143,113.58	\$6,006.93
13	\$143,113.58	\$477.05	\$1,103.07	\$142,010.52	\$6,483.98
14	\$142,010.52	\$473.37	\$1,106.74	\$140,903.77	\$6,957.35
15	\$140,903.77	\$469.68	\$1,110.43	\$139,793.34	\$7,427.03
16	\$139,793.34	\$465.98	\$1,114.13	\$138,679.20	\$7,893.01
17	\$138,679.20	\$462.26	\$1,117.85	\$137,561.35	\$8,355.27
18	\$137,561.35	\$458.54	\$1,121.57	\$136,439.78	\$8,813.81
19	\$136,439.78	\$454.80	\$1,125.31	\$135,314.47	\$9,268.61
20	\$135,314.47	\$451.05	\$1,129.06	\$134,185.40	\$9,719.65
21	\$134,185.40	\$447.28	\$1,132.83	\$133,052.57	\$10,166.94
22	\$133,052.57	\$443.51	\$1,136.60	\$131,915.97	\$10,610.45
23	\$131,915.97	\$439.72	\$1,140.39	\$130,775.58	\$11,050.17
24	\$130,775.58	\$435.92	\$1,144.19	\$129,631.38	\$11,486.09
25	\$129,631.38	\$432.10	\$1,148.01	\$128,483.38	\$11,918.19
26	\$128,483.38	\$428.28	\$1,151.83	\$127,331.54	\$12,346.47
27	\$127,331.54	\$424.44	\$1,155.67	\$126,175.87	\$12,770.91
28	\$126,175.87	\$420.59	\$1,159.53	\$125,016.34	\$13,191.49
29	\$125,016.34	\$416.72	\$1,163.39	\$123,852.95	\$13,608.21
30	\$123,852.95	\$412.84	\$1,167.27	\$122,685.68	\$14,021.06
31	\$122,685.68	\$408.95	\$1,171.16	\$121,514.52	\$14,430.01
32	\$121,514.52	\$405.05	\$1,175.06	\$120,339.45	\$14,835.06
33	\$120,339.45	\$401.13	\$1,178.98	\$119,160.47	\$15,236.19
34	\$119,160.47	\$397.20	\$1,182.91	\$117,977.56	\$15,633.39
35	\$117,977.56	\$393.26	\$1,186.85	\$116,790.71	\$16,026.65
36	\$116,790.71	\$389.30	\$1,190.81	\$115,599.90	\$16,415.95
37	\$115,599.90	\$385.33	\$1,194.78	\$114,405.12	\$16,801.29
38	\$114,405.12	\$381.35	\$1,198.76	\$113,206.36	\$17,182.64
39	\$113,206.36	\$377.35	\$1,202.76	\$112,003.60	\$17,559.99
40	\$112,003.60	\$373.35	\$1,206.77	\$110,796.83	\$17,933.34
41	\$110,796.83	\$369.32	\$1,210.79	\$109,586.04	\$18,302.66
42	\$109,586.04	\$365.29	\$1,214.83	\$108,371.22	\$18,667.95
43	\$108,371.22	\$361.24	\$1,218.88	\$107,152.34	\$19,029.18
44	\$107,152.34	\$357.17	\$1,222.94	\$105,929.40	\$19,386.36
45	\$105,929.40	\$353.10	\$1,227.01	\$104,702.39	\$19,739.46
46	\$104 702 39	\$349.01	\$1,231,10	\$103 471 28	\$20,088,46

0.010124514

Capital Cost Recovery Factor - A =

48	\$102,236.07	\$340.79	\$1,239.33	\$100,996.75	\$20,774.15
49	\$100,996.75	\$336.66	\$1,243.46	\$99,753.29	\$21,110.81
50	\$99,753.29	\$332.51	\$1,247.60	\$98,505.69	\$21,443.32
51	\$98,505.69	\$328.35	\$1,251.76	\$97,253.93	\$21,771.67
52	\$97,253.93	\$324.18	\$1,255.93	\$95,998.00	\$22,095.85
53	\$95,998.00	\$319.99	\$1,260.12	\$94,737.88	\$22,415.85
54	\$94,737.88	\$315.79	\$1,264.32	\$93,473.56	\$22,731.64
55	\$93,473.56	\$311.58	\$1,268.53	\$92,205.02	\$23,043.22
56	\$92,205.02	\$307.35	\$1,272.76	\$90,932.26	\$23,350.57
57	\$90,932.26	\$303.11	\$1,277.01	\$89,655.26	\$23,653.68
58	\$89,655.26	\$298.85	\$1,281.26	\$88,373.99	\$23,952.53
59	\$88,373.99	\$294.58	\$1,285.53	\$87,088.46	\$24,247.11
60	\$87,088.46	\$290.29	\$1,289.82	\$85,798.64	\$24,537.40

\$1,231.10

\$1,235.21

\$103,471.28

\$102,236.07

\$20,088.46

\$20,433.37

\$349.01

\$344.90

107

\$21,578.23

Estimated Capital Cost:	\$19,976,700
Number of Benefitting Properties:	128
Cost per Connection:	\$156,067.97

					Receivery ractor /r
Loan Amount	Interest Rate	Term in Years	Monthly Payment		Monthly Cost -P =
\$156,068.00	4.00%	10	\$1,580.11		
Month	Starting Balance	Interest	Principal	Ending Balance	Total Interest
61	\$85,798.64	\$286.00	\$1,294.12	\$84,504.53	\$24,823.40
62	\$84,504.53	\$281.68	\$1,298.43	\$83,206.10	\$25,105.08
63	\$83,206.10	\$277.35	\$1,302.76	\$81,903.34	\$25,382.43
64	\$81,903.34	\$273.01	\$1,307.10	\$80,596.24	\$25,655.44
65	\$80,596.24	\$268.65	\$1,311.46	\$79,284.78	\$25,924.10
66	\$79,284.78	\$264.28	\$1,315.83	\$77,968.95	\$26,188.38
67	\$77,968.95	\$259.90	\$1,320.22	\$76,648.73	\$26,448.28
68	\$76,648.73	\$255.50	\$1,324.62	\$75,324.11	\$26,703.77
69	\$75,324.11	\$251.08	\$1,329.03	\$73,995.08	\$26,954.85
70	\$73,995.08	\$246.65	\$1,333.46	\$72,661.62	\$27,201.50
71	\$72,661.62	\$242.21	\$1,337.91	\$71,323.71	\$27,443.71
72	\$71,323.71	\$237.75	\$1,342.37	\$69,981.35	\$27,681.45
73	\$69,981.35	\$233.27	\$1,346.84	\$68,634.50	\$27,914.73
74	\$68,634.50	\$228.78	\$1,351.33	\$67,283.17	\$28,143.51
75	\$67,283.17	\$224.28	\$1,355.84	\$65,927.34	\$28,367.78
76	\$65,927.34	\$219.76	\$1,360.35	\$64,566.98	\$28,587.54
77	\$64,566.98	\$215.22	\$1,364.89	\$63,202.09	\$28,802.77
78	\$63,202.09	\$210.67	\$1,369.44	\$61,832.65	\$29,013.44
79	\$61,832.65	\$206.11	\$1,374.00	\$60,458.65	\$29,219.55
80	\$60,458.65	\$201.53	\$1,378.58	\$59,080.07	\$29,421.08
81	\$59,080.07	\$196.93	\$1,383.18	\$57,696.89	\$29,618.01
82	\$57,696.89	\$192.32	\$1,387.79	\$56,309.10	\$29,810.33
83	\$56,309.10	\$187.70	\$1,392.42	\$54,916.68	\$29,998.03
84	\$54,916.68	\$183.06	\$1,397.06	\$53,519.63	\$30,181.09
85	\$53,519.63	\$178.40	\$1,401.71	\$52,117.91	\$30,359.48
86	\$52,117.91	\$173.73	\$1,406.39	\$50,711.53	\$30,533.21
87	\$50,711.53	\$169.04	\$1,411.07	\$49,300.45	\$30,702.25
88	\$49,300.45	\$164.33	\$1,415.78	\$47,884.67	\$30,866.58
89	\$47,884.67	\$159.62	\$1,420.50	\$46,464.18	\$31,026.20
90	\$46,464.18	\$154.88	\$1,425.23	\$45,038.94	\$31,181.08
91	\$45,038.94	\$150.13	\$1,429.98	\$43,608.96	\$31,331.21
92	\$43,608.96	\$145.36	\$1,434.75	\$42,174.21	\$31,476.57
93	\$42,174.21	\$140.58	\$1,439.53	\$40,734.68	\$31,617.15
94	\$40,734.68	\$135.78	\$1,444.33	\$39,290.35	\$31,752.94
95	\$39,290.35	\$130.97	\$1,449.14	\$37,841.21	\$31,883.90
96	\$37,841.21	\$126.14	\$1,453.98	\$36,387.23	\$32,010.04
97	\$36,387.23	\$121.29	\$1,458.82	\$34,928.41	\$32,131.33
98	\$34,928.41	\$116.43	\$1,463.68	\$33,464.72	\$32,247.76
99	\$33,464.72	\$111.55	\$1,468.56	\$31,996.16	\$32,359.31
100	\$31,996.16	\$106.65	\$1,473.46	\$30,522.70	\$32,465.96
101	\$30,522.70	\$101.74	\$1,478.37	\$29,044.33	\$32,567.71
102	\$29,044.33	\$96.81	\$1,483.30	\$27,561.03	\$32,664.52
103	\$27,561.03	\$91.87	\$1,488.24	\$26,072.79	\$32,756.39
104	\$26,072.79	\$86.91	\$1,493.20	\$24,579.59	\$32,843.30
105	\$24,579.59	\$81.93	\$1,498.18	\$23,081.41	\$32,925.23
106	\$23,081.41	\$76.94	\$1,503.17	\$21,578.23	\$33,002.17
107	¢0,001.11	¢74.00	¢ 1,000.11	¢_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	¢00,002.11

0.010124514

Capital Cost Recovery Factor - A =

108	\$20,070.05	\$66.90	\$1,513.21	\$18,556.83	\$33,141.00
109	\$18,556.83	\$61.86	\$1,518.26	\$17,038.58	\$33,202.85
110	\$17,038.58	\$56.80	\$1,523.32	\$15,515.26	\$33,259.65
111	\$15,515.26	\$51.72	\$1,528.40	\$13,986.86	\$33,311.37
112	\$13,986.86	\$46.62	\$1,533.49	\$12,453.38	\$33,357.99
113	\$12,453.38	\$41.51	\$1,538.60	\$10,914.77	\$33,399.50
114	\$10,914.77	\$36.38	\$1,543.73	\$9,371.04	\$33,435.88
115	\$9,371.04	\$31.24	\$1,548.88	\$7,822.17	\$33,467.12
116	\$7,822.17	\$26.07	\$1,554.04	\$6,268.13	\$33,493.19
117	\$6,268.13	\$20.89	\$1,559.22	\$4,708.91	\$33,514.09
118	\$4,708.91	\$15.70	\$1,564.42	\$3,144.49	\$33,529.78
119	\$3,144.49	\$10.48	\$1,569.63	\$1,574.86	\$33,540.27
120	\$1,574.86	\$5.25	\$1,574.86	\$0.00	\$33,545.51

\$1,508.19

\$20,070.05

\$33,074.10

\$71.93

Estimated Capital Cost:	\$19,976,700
Number of Benefitting Properties:	128
Cost per Connection:	\$156,067.97

0.007396879 \$1,154.42

				Cupital Cool	Recovery Factor - A =
an Amount	Interest Rate	Term in Years	Monthly Payment		Monthly Cost -P =
56,068.00	4.00%	15	\$1,154.42		
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest
1	\$156,068.00	\$520.23	\$634.19	\$155,433.81	\$520.23
2	\$155,433.81	\$518.11	\$636.30	\$154,797.51	\$1,038.34
3	\$154,797.51	\$515.99	\$638.42	\$154,159.08	\$1,554.33
4	\$154,159.08	\$513.86	\$640.55	\$153,518.53	\$2,068.19
5	\$153,518.53	\$511.73	\$642.69	\$152,875.84	\$2,579.92
6	\$152,875.84	\$509.59	\$644.83	\$152,231.01	\$3,089.51
7	\$152,231.01	\$507.44	\$646.98	\$151,584.03	\$3,596.95
8	\$151,584.03	\$505.28	\$649.14	\$150,934.90	\$4,102.23
9	\$150,934.90	\$503.12	\$651.30	\$150,283.60	\$4,605.34
10	\$150,283.60	\$500.95	\$653.47	\$149,630.13	\$5,106.29
11	\$149,630.13	\$498.77	\$655.65	\$148,974.48	\$5,605.05
12	\$148,974.48	\$496.58	\$657.83	\$148,316.64	\$6,101.64
13	\$148,316.64	\$494.39	\$660.03	\$147,656.62	\$6,596.03
14	\$147,656.62	\$492.19	\$662.23	\$146,994.39	\$7,088.21
15	\$146,994.39	\$489.98	\$664.43	\$146,329.95	\$7,578.20
16	\$146,329.95	\$487.77	\$666.65	\$145,663.30	\$8,065.96
17	\$145,663.30	\$485.54	\$668.87	\$144,994.43	\$8,551.51
18	\$144,994.43	\$483.31	\$671.10	\$144,323.33	\$9,034.82
19	\$144,323.33	\$481.08	\$673.34	\$143,649.99	\$9,515.90
20	\$143,649.99	\$478.83	\$675.58	\$142,974.41	\$9,994.73
21	\$142,974.41	\$476.58	\$677.83	\$142,296.57	\$10,471.31
22	\$142,296.57	\$474.32	\$680.09	\$141,616.48	\$10,945.64
23	\$141,616.48	\$472.05	\$682.36	\$140,934.12	\$11,417.69
24	\$140,934.12	\$469.78	\$684.64	\$140,249.48	\$11,887.47
25	\$140,249.48	\$467.50	\$686.92	\$139,562.56	\$12,354.97
26	\$139,562.56	\$465.21	\$689.21	\$138,873.36	\$12,820.18
27	\$138,873.36	\$462.91	\$691.50	\$138,181.85	\$13,283.09
28	\$138,181.85	\$460.61	\$693.81	\$137,488.04	\$13,743.69
29	\$137,488.04	\$458.29	\$696.12	\$136,791.92	\$14,201.99
30	\$136,791.92	\$455.97	\$698.44	\$136,093.48	\$14,657.96
31	\$136,093.48	\$453.64	\$700.77	\$135,392.71	\$15,111.61
32	\$135,392.71	\$451.31	\$703.11	\$134,689.60	\$15,562.92
33	\$134,689.60	\$448.97	\$705.45	\$133,984.15	\$16,011.88
34	\$133,984.15	\$446.61	\$707.80	\$133,276.35	\$16,458.49
35	\$133,276.35	\$444.25	\$710.16	\$132,566.18	\$16,902.75
36	\$132,566.18	\$441.89	\$712.53	\$131,853.65	\$17,344.64
37	\$131,853.65	\$439.51	\$714.90	\$131,138.75	\$17,784.15
38	\$131,138.75 \$130,421,46	\$437.13 \$424.74	\$717.29 \$710.68	\$130,421.46 \$120,701,70	\$18,221.28 \$18,656.02
39 40	\$130,421.46 \$130,701,70	\$434.74	\$719.68 \$722.08	\$129,701.79 \$128,070,71	\$18,656.02 \$10,088,35
40	\$129,701.79 \$128,070,71	\$432.34	\$722.08	\$128,979.71 \$128,255,22	\$19,088.35 \$10,518.30
41 42	\$128,979.71 \$128,255,23	\$429.93 \$427.52	\$724.48 \$726.00	\$128,255.23 \$127,528,33	\$19,518.29 \$10,045,80
42 43	\$128,255.23 \$127,528,33	\$427.52 \$425.00	\$726.90 \$720.32	\$127,528.33 \$126,700,00	\$19,945.80 \$20,370,90
43 44	\$127,528.33 \$126,700,00	\$425.09 \$422.66	\$729.32 \$731.75	\$126,799.00 \$126,067,25	\$20,370.90 \$20,703.56
44 45	\$126,799.00 \$126,067,25	\$422.66 \$420.22	\$731.75 \$734_10	\$126,067.25 \$125,233,06	\$20,793.56 \$21,213,70
45 46	\$126,067.25 \$125,333,06	\$420.22 \$417.78	\$734.19 \$736.64	\$125,333.06 \$124,506,42	\$21,213.79 \$21,631,56
46 47	\$125,333.06 \$124,596,42	\$417.78 \$415.32	\$736.64 \$730.00	\$124,596.42 \$123,857,33	\$21,631.56 \$22,046,88
47 48	\$124,596.42 \$123,857,33	\$415.32 \$412.86	\$739.09 \$741.56	\$123,857.33 \$123,115,77	\$22,046.88 \$22,459,74
48 40	\$123,857.33 \$123,115,77	\$412.86 \$410.30	\$741.56 \$744.03	\$123,115.77 \$122,371,74	\$22,459.74 \$22,870,13
49 50	\$123,115.77 \$122,371,74	\$410.39 \$407.01	\$744.03 \$746.51	\$122,371.74 \$121,625,23	\$22,870.13 \$23,278,03
50 51	\$122,371.74 \$121,625,22	\$407.91 \$405.42	\$746.51 \$740.00	\$121,625.23 \$120,876,22	\$23,278.03 \$22,682,45
51 52	\$121,625.23 \$120,876,22	\$405.42 \$402.02	\$749.00 \$751.50	\$120,876.23 \$120,124,72	\$23,683.45 \$24,086,27
52 53	\$120,876.23 \$120,124,73	\$402.92 \$400.42	\$751.50 \$754.00	\$120,124.73 \$110,370,73	\$24,086.37 \$24,486,70
53 54	\$120,124.73 \$110,270,72	\$400.42 \$207.00	\$754.00 \$756.51	\$119,370.73 \$118,614,22	\$24,486.79 \$24,884,60
54 55	\$119,370.73 \$118,614,22	\$397.90 \$305.38	\$756.51 \$750.04	\$118,614.22 \$117,855,18	\$24,884.69 \$25,280,07
55 56	\$118,614.22 \$117,855,18	\$395.38 \$302.85	\$759.04 \$761.57	\$117,855.18 \$117,003,62	\$25,280.07 \$25,672.02
56 57	\$117,855.18 \$117,002,62	\$392.85	\$761.57 \$764.10	\$117,093.62 \$116,220,51	\$25,672.92 \$26,062,22
57 59	\$117,093.62 \$116,220,51	\$390.31 \$397.77	\$764.10 \$766.65	\$116,329.51 \$115,562.86	\$26,063.23
58 50	\$116,329.51 \$115,562,86	\$387.77	\$766.65 \$760.21	\$115,562.86 \$114,702,66	\$26,451.00 \$26,826,21
59 60	\$115,562.86 \$114,793.66	\$385.21	\$769.21 \$771.77	\$114,793.66 \$114,021,80	\$26,836.21 \$27,218,85
	3114./93.00	\$382.65	\$771.77	\$114,021.89	\$27,218.85

Capital Cost Recovery Factor - A = 0

110

\$72,878.86

Estimated Capital Cost:	\$19,976,700
Number of Benefitting Properties:	128
Cost per Connection:	\$156,067.97

Capital Cost Recovery Factor - A = 0.00

\$42,885.15

0.007396879

				Capital Cost	Recovery Factor - A -
Loan Amount	Interest Rate	Term in Years	Monthly Payment		Monthly Cost -P =
\$156,068.00	4.00%	15	\$1,154.42		
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest
62	\$113,247.54	\$377.49	\$776.92	\$112,470.62	\$27,976.42
63	\$112,470.62	\$374.90	\$779.51	\$111,691.10	\$28,351.32
64	\$111,691.10	\$372.30	\$782.11	\$110,908.99	\$28,723.62
65	\$110,908.99	\$369.70	\$784.72	\$110,124.27	\$29,093.32
66	\$110,124.27	\$367.08	\$787.34	\$109,336.94	\$29,460.40
67	\$109,336.94	\$364.46	\$789.96	\$108,546.98	\$29,824.86
68	\$108,546.98	\$361.82	\$792.59	\$107,754.38	\$30,186.68
69	\$107,754.38	\$359.18	\$795.23	\$106,959.15	\$30,545.86
70	\$106,959.15	\$356.53	\$797.89	\$106,161.26	\$30,902.39
71	\$106,161.26	\$353.87	\$800.55	\$105,360.72	\$31,256.26
72	\$105,360.72	\$351.20	\$803.21	\$104,557.50	\$31,607.47
73	\$104,557.50	\$348.53	\$805.89	\$103,751.61	\$31,955.99
74	\$103,751.61	\$345.84	\$808.58	\$102,943.04	\$32,301.83
75	\$102,943.04	\$343.14	\$811.27	\$102,131.76	\$32,644.97
76	\$102,131.76	\$340.44	\$813.98	\$101,317.79	\$32,985.41
77	\$101,317.79	\$337.73	\$816.69	\$100,501.10	\$33,323.14
78	\$100,501.10	\$335.00	\$819.41	\$99,681.68	\$33,658.14
79	\$99,681.68	\$332.27	\$822.14	\$98,859.54	\$33,990.42
80	\$98,859.54	\$329.53	\$824.88	\$98,034.65	\$34,319.95
81	\$98,034.65	\$326.78	\$827.63	\$97,207.02	\$34,646.73
82	\$97,207.02	\$324.02	\$830.39	\$96,376.63	\$34,970.75
83	\$96,376.63	\$321.26	\$833.16	\$95,543.47	\$35,292.01
84	\$95,543.47	\$318.48	\$835.94	\$94,707.53	\$35,610.49
85	\$94,707.53	\$315.69	\$838.72	\$93,868.81	\$35,926.18
86	\$93,868.81	\$312.90	\$841.52	\$93,027.29	\$36,239.07
87	\$93,027.29	\$310.09	\$844.33	\$92,182.96	\$36,549.17
88	\$92,182.96	\$307.28	\$847.14	\$91,335.82	\$36,856.44
89	\$91,335.82	\$304.45	\$849.96	\$90,485.86	\$37,160.89
90	\$90,485.86	\$301.62	\$852.80	\$89,633.06	\$37,462.51
91	\$89,633.06	\$298.78	\$855.64	\$88,777.42	\$37,761.29
92	\$88,777.42	\$295.92	\$858.49	\$87,918.93	\$38,057.22
93	\$87,918.93	\$293.06	\$861.35	\$87,057.58	\$38,350.28
94	\$87,057.58	\$290.19	\$864.22	\$86,193.35	\$38,640.47
95	\$86,193.35	\$287.31	\$867.10	\$85,326.25	\$38,927.78
96	\$85,326.25	\$284.42	\$870.00	\$84,456.25	\$39,212.20
97	\$84,456.25	\$281.52	\$872.90	\$83,583.36	\$39,493.72
98	\$83,583.36	\$278.61	\$875.80	\$82,707.55	\$39,772.33
99	\$82,707.55	\$275.69	\$878.72	\$81,828.83	\$40,048.03
100	\$81,828.83	\$272.76	\$881.65	\$80,947.17	\$40,320.79
100	\$80,947.17	\$269.82	\$884.59	\$80,062.58	\$40,590.61
101	\$80,062.58	\$266.88	\$887.54	\$79,175.04	\$40,857.49
102	\$79,175.04	\$263.92	\$890.50	\$78,284.54	\$41,121.41
103	\$79,175.04 \$78,284.54	\$260.95	\$893.47	\$77,391.07	\$41,382.35
104	\$78,284.54 \$77,391.07	\$257.97	\$896.45	\$76,494.63	\$41,640.32
105			\$896.45 \$899.43		
	\$76,494.63 \$75,505,10	\$254.98 \$251.08		\$75,595.19 \$74,692,76	\$41,895.31 \$42,147,20
107	\$75,595.19 \$74,602,76	\$251.98 \$248.08	\$902.43 \$905.44	\$74,692.76 \$73,787,33	\$42,147.29 \$42,206,27
108 109	\$74,692.76 \$73,787.32	\$248.98 \$245.96	\$905.44 \$908.46	\$73,787.32 \$72,878.86	\$42,396.27 \$42,642.22
109	\$13,181.32 \$70.979.96	\$∠40.90 ¢240.02	\$908.40 ¢011.40	\$12,818.80 \$71,067,29	\$42,042.22 \$42,995.15

	+	+	+	+	+
111	\$71,967.38	\$239.89	\$914.52	\$71,052.85	\$43,125.04
112	\$71,052.85	\$236.84	\$917.57	\$70,135.28	\$43,361.89
113	\$70,135.28	\$233.78	\$920.63	\$69,214.65	\$43,595.67
114	\$69,214.65	\$230.72	\$923.70	\$68,290.95	\$43,826.39
115	\$68,290.95	\$227.64	\$926.78	\$67,364.17	\$44,054.02
116	\$67,364.17	\$224.55	\$929.87	\$66,434.30	\$44,278.57
117	\$66,434.30	\$221.45	\$932.97	\$65,501.33	\$44,500.02
118	\$65,501.33	\$218.34	\$936.08	\$64,565.25	\$44,718.36
119	\$64,565.25	\$215.22	\$939.20	\$63,626.05	\$44,933.57
120	\$63,626.05	\$212.09	\$942.33	\$62,683.72	\$45,145.66
121	\$62,683.72	\$208.95	\$945.47	\$61,738.25	\$45,354.61
122	\$61,738.25	\$205.79	\$948.62	\$60,789.63	\$45,560.40

\$242.93

\$911.49

\$71,967.38

Estimated Capital Cost:	\$19,976,700
Number of Benefitting Properties:	128
Cost per Connection:	\$156,067.97

0.007396879

				Capital Cost	Recovery Factor - A -	0.007390678
Loan Amount	Interest Rate	Term in Years	Monthly Payment		Monthly Cost -P =	\$1,154.42
\$156,068.00	4.00%	15	\$1,154.42			
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest	
123	\$60,789.63	\$202.63	\$951.78	\$59,837.85	\$45,763.03	
124	\$59,837.85	\$199.46	\$954.96	\$58,882.89	\$45,962.49	
125	\$58,882.89	\$196.28	\$958.14	\$57,924.75	\$46,158.77	
126	\$57,924.75	\$193.08	\$961.33	\$56,963.42	\$46,351.85	
127	\$56,963.42	\$189.88	\$964.54	\$55,998.88	\$46,541.73	
128	\$55,998.88	\$186.66	\$967.75	\$55,031.12	\$46,728.39	
129	\$55,031.12	\$183.44	\$970.98	\$54,060.15	\$46,911.83	
130	\$54,060.15	\$180.20	\$974.22	\$53,085.93	\$47,092.03	
131	\$53,085.93	\$176.95	\$977.46	\$52,108.47	\$47,268.98	
132	\$52,108.47	\$173.69	\$980.72	\$51,127.75	\$47,442.68	
133	\$51,127.75	\$170.43	\$983.99	\$50,143.75	\$47,613.10	
134	\$50,143.75	\$167.15	\$987.27	\$49,156.48	\$47,780.25	
135	\$49,156.48	\$163.85	\$990.56	\$48,165.92	\$47,944.10	
136	\$48,165.92	\$160.55	\$993.86	\$47,172.06	\$48,104.66	
137	\$47,172.06	\$157.24	\$997.18	\$46,174.88	\$48,261.90	
138	\$46,174.88	\$153.92	\$1,000.50	\$45,174.38	\$48,415.81	
139	\$45,174.38	\$150.58	\$1,003.83	\$44,170.55	\$48,566.39	
140	\$44,170.55	\$147.24	\$1,007.18	\$43,163.37	\$48,713.63	
141	\$43,163.37	\$143.88	\$1,010.54	\$42,152.83	\$48,857.51	
142	\$42,152.83	\$140.51	\$1,013.91	\$41,138.92	\$48,998.02	
143	\$41,138.92	\$137.13	\$1,017.29	\$40,121.64	\$49,135.15	
144	\$40,121.64	\$133.74	\$1,020.68	\$39,100.96	\$49,268.89	
144	\$39,100.96	\$130.34	\$1,024.08	\$38,076.88	\$49,399.22	
145	\$38,076.88	\$126.92	\$1,027.49	\$37,049.39	\$49,526.15	
140	\$37,049.39	\$123.50	\$1,030.92	\$36,018.47	\$49,649.64	
148	\$36,018.47	\$120.06	\$1,034.35	\$34,984.11	\$49,769.70	
149	\$34,984.11	\$120.00	\$1,037.80	\$33,946.31	\$49,886.32	
149	\$33,946.31	\$113.15	\$1,041.26	\$32,905.05	\$49,999.47	
150		\$109.68	\$1,044.73			
151	\$32,905.05	\$109.88	\$1,048.22	\$31,860.32 \$30,812.10	\$50,109.16 \$50,215,26	
152	\$31,860.32 \$30,812.10	\$100.20	\$1,051.71	\$29,760.39	\$50,215.36 \$50,318.06	
153		\$99.20	\$1,055.21			
	\$29,760.39 \$28,705.18			\$28,705.18 \$27,646,45	\$50,417.27 \$50,512.05	
155 156	\$28,705.18 \$27,646.45	\$95.68 \$92.15	\$1,058.73 \$1,062.26	\$27,646.45 \$26,584.18	\$50,512.95 \$50,605.10	
150	\$26,584.18	\$88.61	\$1,065.80	\$25,518.38	\$50,693.72	
157	\$25,518.38	\$85.06	\$1,069.35	\$25,516.36	\$50,778.78	
158	\$24,449.03	\$85.06	\$1,072.92	\$23,376.11	\$50,860.28	
160	\$23,376.11	\$81.50 \$77.92	\$1,076.50	\$23,376.11 \$22,299.61	\$50,880.28	
160	\$22,299.61	\$77.92 \$74.33	\$1,080.08	\$21,219.53	\$51,012.53	
161	\$22,299.01	\$74.33 \$70.73	\$1,080.08		\$51,083.26	
162		\$70.73 \$67.12	\$1,083.08	\$20,135.84 \$10,048,55		
163	\$20,135.84 \$19,048,55	\$67.12 \$63.50		\$19,048.55 \$17,957,63	\$51,150.38 \$51,213,88	
164	\$19,048.55 \$17,057,63		\$1,090.92 \$1,094.56	\$17,957.63 \$16,863.07	\$51,213.88 \$51,273,73	
	\$17,957.63 \$16,863.07	\$59.86 \$56.21	\$1,094.56 \$1,098.21	\$16,863.07 \$15,764,86	\$51,273.73 \$51,320.04	
166 167	\$16,863.07 \$15,764,86	\$56.21 \$52.55	\$1,098.21 \$1,101.87	\$15,764.86 \$14,663,00	\$51,329.94 \$51,382.40	
167 168	\$15,764.86 \$14,663,00	\$52.55 \$48.88	\$1,101.87 \$1,105.54	\$14,663.00 \$13,557,46	\$51,382.49 \$51,431,37	
168	\$14,663.00 \$12,557,46	\$48.88 \$45.10	\$1,105.54 \$1,100.22	\$13,557.46 \$12,448,22	\$51,431.37 \$51,476,56	
169 170	\$13,557.46 \$12,448,23	\$45.19 \$41.49	\$1,109.22 \$1,112.02	\$12,448.23 \$11,335,31	\$51,476.56 \$51,518.06	
	\$12,448.23 \$11,335,31		\$1,112.92 \$1,116.63	\$11,335.31 \$10,218,68	\$51,518.06 \$51,555,84	
171	\$11,335.31	\$37.78	\$1,116.63	\$10,218.68	\$51,555.84	

	+,	+	+ .,	+ ,	+ ,
172	\$10,218.68	\$34.06	\$1,120.35	\$9,098.32	\$51,589.90
173	\$9,098.32	\$30.33	\$1,124.09	\$7,974.24	\$51,620.23
174	\$7,974.24	\$26.58	\$1,127.84	\$6,846.40	\$51,646.81
175	\$6,846.40	\$22.82	\$1,131.59	\$5,714.81	\$51,669.63
176	\$5,714.81	\$19.05	\$1,135.37	\$4,579.44	\$51,688.68
177	\$4,579.44	\$15.26	\$1,139.15	\$3,440.29	\$51,703.95
178	\$3,440.29	\$11.47	\$1,142.95	\$2,297.34	\$51,715.41
179	\$2,297.34	\$7.66	\$1,146.76	\$1,150.58	\$51,723.07
180	\$1,150.58	\$3.84	\$1,150.58	\$0.00	\$51,726.91

Capital Cost Recovery Factor - A =

Estimated Capital Cost:	\$19,976,700
Number of Benefitting Properties:	128
Cost per Connection:	\$156,067.97

Capital Cost Recovery Factor - A =

0.006059803 \$945.74

				Capital Cost	Recovery Factor - A -
Loan Amount	Interest Rate	Term in Years	Monthly Payment		Monthly Cost -P =
\$156,068.00	4.00%	20	\$945.74		
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest
1	\$156,068.00	\$520.23	\$425.51	\$155,642.49	\$520.23
2	\$155,642.49	\$518.81	\$426.93	\$155,215.55	\$1,039.03
3	\$155,215.55	\$517.39	\$428.36	\$154,787.20	\$1,556.42
4	\$154,787.20	\$515.96	\$429.78	\$154,357.41	\$2,072.38
5	\$154,357.41	\$514.52	\$431.22	\$153,926.20	\$2,586.90
6	\$153,926.20	\$513.09	\$432.65	\$153,493.54	\$3,099.99
7	\$153,493.54	\$511.65	\$434.10	\$153,059.44	\$3,611.63
8	\$153,059.44	\$510.20	\$435.54	\$152,623.90	\$4,121.83
9	\$152,623.90	\$508.75	\$437.00	\$152,186.91	\$4,630.58
10	\$152,186.91	\$507.29	\$438.45	\$151,748.45	\$5,137.87
11	\$151,748.45	\$505.83	\$439.91	\$151,308.54	\$5,643.70
12	\$151,308.54	\$504.36	\$441.38	\$150,867.16	\$6,148.06
13	\$150,867.16	\$502.89	\$442.85	\$150,424.31	\$6,650.95
14	\$150,424.31	\$501.41	\$444.33	\$149,979.98	\$7,152.36
15	\$149,979.98	\$499.93	\$445.81	\$149,534.18	\$7,652.30
16	\$149,534.18	\$498.45	\$447.29	\$149,086.88	\$8,150.74
17	\$149,086.88	\$496.96	\$448.79	\$148,638.10	\$8,647.70
18	\$148,638.10	\$495.46	\$450.28	\$148,187.82	\$9,143.16
19	\$148,187.82	\$493.96	\$451.78	\$147,736.03	\$9,637.12
20	\$147,736.03	\$492.45	\$453.29	\$147,282.75	\$10,129.57
20	\$147,282.75	\$490.94	\$454.80	\$146,827.95	\$10,620.52
22	\$146,827.95	\$489.43	\$456.31	\$146,371.63	\$11,109.94
22	\$146,371.63	\$487.91	\$457.84	\$145,913.80	\$11,597.85
23 24	\$145,913.80	\$486.38	\$459.36	\$145,454.43	\$12,084.23
24 25	\$145,454.43	\$484.85	\$460.89	\$144,993.54	\$12,569.08
25 26	\$144,993.54	\$483.31	\$462.43	\$144,531.11	\$13,052.39
20 27	\$144,531.11	\$481.77	\$463.97	\$144,067.14	\$13,534.16
27 28	• •	\$481.77 \$480.22	\$463.97 \$465.52	\$144,067.14 \$143,601.62	
	\$144,067.14 \$143,601,62			· · ·	\$14,014.38 \$14,403.05
29 20	\$143,601.62 \$142,124,55	\$478.67 \$477.10	\$467.07	\$143,134.55 \$142,665,02	\$14,493.05 \$14,070.17
30 31	\$143,134.55 \$142,665,02	\$477.12 \$475.55	\$468.63 \$470.10	\$142,665.93 \$142,105,74	\$14,970.17 \$15,445,72
31	\$142,665.93	\$475.55	\$470.19	\$142,195.74	\$15,445.72
32	\$142,195.74	\$473.99	\$471.76	\$141,723.98	\$15,919.71
33	\$141,723.98	\$472.41	\$473.33	\$141,250.66	\$16,392.12
34	\$141,250.66	\$470.84	\$474.91	\$140,775.75	\$16,862.96
35	\$140,775.75	\$469.25	\$476.49	\$140,299.26	\$17,332.21
36	\$140,299.26	\$467.66	\$478.08	\$139,821.18	\$17,799.87
37	\$139,821.18	\$466.07	\$479.67	\$139,341.51	\$18,265.94
38	\$139,341.51	\$464.47	\$481.27	\$138,860.24	\$18,730.42
39	\$138,860.24	\$462.87	\$482.87	\$138,377.37	\$19,193.28
40	\$138,377.37	\$461.26	\$484.48	\$137,892.89	\$19,654.54
41	\$137,892.89	\$459.64	\$486.10	\$137,406.79	\$20,114.18
42	\$137,406.79	\$458.02	\$487.72	\$136,919.07	\$20,572.21
43	\$136,919.07	\$456.40	\$489.34	\$136,429.72	\$21,028.60
44	\$136,429.72	\$454.77	\$490.98	\$135,938.75	\$21,483.37
45	\$135,938.75	\$453.13	\$492.61	\$135,446.14	\$21,936.50
46	\$135,446.14	\$451.49	\$494.25	\$134,951.88	\$22,387.99
47	\$134,951.88	\$449.84	\$495.90	\$134,455.98	\$22,837.82
48	\$134,455.98	\$448.19	\$497.55	\$133,958.43	\$23,286.01
49	\$133,958.43	\$446.53	\$499.21	\$133,459.21	\$23,732.54
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50	\$133,459.21	\$444.86	\$500.88	\$132,958.33	\$24,177.40
51	\$132,958.33	\$443.19	\$502.55	\$132,455.79	\$24,620.60
52	\$132,455.79	\$441.52	\$504.22	\$131,951.57	\$25,062.12
53	\$131,951.57	\$439.84	\$505.90	\$131,445.66	\$25,501.96
54	\$131,445.66	\$438.15	\$507.59	\$130,938.07	\$25,940.11
55	\$130,938.07	\$436.46	\$509.28	\$130,428.79	\$26,376.57
56	\$130,428.79	\$434.76	\$510.98	\$129,917.81	\$26,811.33
57	\$129,917.81	\$433.06	\$512.68	\$129,405.13	\$27,244.39
58	\$129,405.13	\$431.35	\$514.39	\$128,890.74	\$27,675.74
59	\$128,890.74	\$429.64	\$516.11	\$128,374.64	\$28,105.38
60	\$128,374.64	\$427.92	\$517.83	\$127,856.81	\$28,533.29
61	\$127,856.81	\$426.19	\$519.55	\$127,337.26	\$28,959.48

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107

108

109

110

\$102,677.58

\$102,074.10

\$101,468.61

\$100,861.09

\$100.251.56

Estimated Capital Cost:	\$19,976,700
Number of Benefitting Properties:	128
Cost per Connection:	\$156,067.97

Capital Cost Recovery Factor - A = 0.0

0.006059803

Loan Amount	Interest Rate	Term in Years	Monthly Payment		Monthly Cost -P =
\$156,068.00	4.00%	20	\$945.74		
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Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest
62	\$127,337.26	\$424.46	\$521.28	\$126,815.97	\$29,383.94
63	\$126,815.97	\$422.72	\$523.02	\$126,292.95	\$29,806.66
64	\$126,292.95	\$420.98	\$524.76	\$125,768.19	\$30,227.64
65	\$125,768.19	\$419.23	\$526.51	\$125,241.67	\$30,646.86
66	\$125,241.67	\$417.47	\$528.27	\$124,713.40	\$31,064.33
67	\$124,713.40	\$415.71	\$530.03	\$124,183.37	\$31,480.05
68	\$124,183.37	\$413.94	\$531.80	\$123,651.58	\$31,893.99
69	\$123,651.58	\$412.17	\$533.57	\$123,118.01	\$32,306.16
70	\$123,118.01	\$410.39	\$535.35	\$122,582.66	\$32,716.56
71	\$122,582.66	\$408.61	\$537.13	\$122,045.53	\$33,125.17
72	\$122,045.53	\$406.82	\$538.92	\$121,506.60	\$33,531.98
73	\$121,506.60	\$405.02	\$540.72	\$120,965.88	\$33,937.01
74	\$120,965.88	\$403.22	\$542.52	\$120,423.36	\$34,340.23
75	\$120,423.36	\$401.41	\$544.33	\$119,879.03	\$34,741.64
76	\$119,879.03	\$399.60	\$546.14	\$119,332.89	\$35,141.23
77	\$119,332.89	\$397.78	\$547.97	\$118,784.92	\$35,539.01
78	\$118,784.92	\$395.95	\$549.79	\$118,235.13	\$35,934.96
79	\$118,235.13	\$394.12	\$551.62	\$117,683.51	\$36,329.08
80	\$117,683.51	\$392.28	\$553.46	\$117,130.04	\$36,721.35
81	\$117,130.04	\$390.43	\$555.31	\$116,574.74	\$37,111.79
82	\$116,574.74	\$388.58	\$557.16	\$116,017.58	\$37,500.37
83	\$116,017.58	\$386.73	\$559.02	\$115,458.56	\$37,887.10
84	\$115,458.56	\$384.86	\$560.88	\$114,897.68	\$38,271.96
85	\$114,897.68	\$382.99	\$562.75	\$114,334.93	\$38,654.95
86	\$114,334.93	\$381.12	\$564.62	\$113,770.31	\$39,036.07
87	\$113,770.31	\$379.23	\$566.51	\$113,203.80	\$39,415.30
88	\$113,203.80	\$377.35	\$568.40	\$112,635.41	\$39,792.65
89	\$112,635.41	\$375.45	\$570.29	\$112,065.12	\$40,168.10
90	\$112,065.12	\$373.55	\$572.19	\$111,492.92	\$40,541.65
91	\$111,492.92	\$371.64	\$574.10	\$110,918.83	\$40,913.29
92	\$110,918.83	\$369.73	\$576.01	\$110,342.81	\$41,283.02
93	\$110,342.81	\$367.81	\$577.93	\$109,764.88	\$41,650.83
94	\$109,764.88	\$365.88	\$579.86	\$109,185.02	\$42,016.71
95	\$109,185.02	\$363.95	\$581.79	\$108,603.23	\$42,380.66
96	\$108,603.23	\$362.01	\$583.73	\$108,019.50	\$42,742.67
97	\$108,019.50	\$360.07	\$585.68	\$107,433.83	\$43,102.74
98	\$107,433.83	\$358.11	\$587.63	\$106,846.20	\$43,460.85
99	\$106,846.20	\$356.15	\$589.59	\$106,256.61	\$43,817.01
100	\$106,256.61	\$354.19	\$591.55	\$105,665.06	\$44,171.19
101	\$105,665.06	\$352.22	\$593.52	\$105,071.53	\$44,523.41
102	\$105,071.53	\$350.24	\$595.50	\$104,476.03	\$44,873.65
103	\$104,476.03	\$348.25	\$597.49	\$103,878.54	\$45,221.90
104	\$103,878.54	\$346.26	\$599.48	\$103,279.06	\$45,568.17
105	\$103,279.06	\$344.26	\$601.48	\$102,677.58	\$45,912.43
106	\$102,677,59	¢242.26	¢602.49	¢102,074,10	¢ 46,254,60

	+	+	+	+,	+ ,
111	\$99,639.99	\$332.13	\$613.61	\$99,026.38	\$47,935.67
112	\$99,026.38	\$330.09	\$615.65	\$98,410.73	\$48,265.76
113	\$98,410.73	\$328.04	\$617.71	\$97,793.02	\$48,593.80
114	\$97,793.02	\$325.98	\$619.76	\$97,173.25	\$48,919.77
115	\$97,173.25	\$323.91	\$621.83	\$96,551.42	\$49,243.68
116	\$96,551.42	\$321.84	\$623.90	\$95,927.52	\$49,565.52
117	\$95,927.52	\$319.76	\$625.98	\$95,301.54	\$49,885.28
118	\$95,301.54	\$317.67	\$628.07	\$94,673.47	\$50,202.95
119	\$94,673.47	\$315.58	\$630.16	\$94,043.31	\$50,518.53
120	\$94,043.31	\$313.48	\$632.26	\$93,411.04	\$50,832.01
121	\$93,411.04	\$311.37	\$634.37	\$92,776.67	\$51,143.38
122	\$92,776.67	\$309.26	\$636.49	\$92,140.18	\$51,452.63

\$603.48

\$605.49

\$607.51

\$609.54

\$611.57

\$102,074.10

\$101,468.61

\$100,861.09

\$100,251.56

\$99,639.99

\$46,254.69

\$46,594.93

\$46,933.16

\$47,269.37

\$47,603.54

\$342.26

\$340.25

\$338.23

\$336.20

\$334.17

171

\$58,958.40

Estimated Capital Cost:	\$19,976,700
Number of Benefitting Properties:	128
Cost per Connection:	\$156,067.97

Capital Cost Recovery Factor - A =

0.006059803

				Capital Cost	Recovery Factor - A =	0.000059603
Loan Amount	Interest Rate	Term in Years	Monthly Payment		Monthly Cost -P =	\$945.74
\$156,068.00	4.00%	20	\$945.74			
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest	
123	\$92,140.18	\$307.13	\$638.61	\$91,501.58	\$51,759.77	
124	\$91,501.58	\$305.01	\$640.74	\$90,860.84	\$52,064.77	
125	\$90,860.84	\$302.87	\$642.87	\$90,217.97	\$52,367.64	
126	\$90,217.97	\$300.73	\$645.01	\$89,572.95	\$52,668.37	
127	\$89,572.95	\$298.58	\$647.16	\$88,925.79	\$52,966.94	
128	\$88,925.79	\$296.42	\$649.32	\$88,276.47	\$53,263.36	
129	\$88,276.47	\$294.25	\$651.49	\$87,624.98	\$53,557.62	
130	\$87,624.98	\$292.08	\$653.66	\$86,971.32	\$53,849.70	
131	\$86,971.32	\$289.90	\$655.84	\$86,315.49	\$54,139.61	
132	\$86,315.49	\$287.72	\$658.02	\$85,657.46	\$54,427.32	
133	\$85,657.46	\$285.52	\$660.22	\$84,997.25	\$54,712.85	
134	\$84,997.25	\$283.32	\$662.42	\$84,334.83	\$54,996.17	
135	\$84,334.83	\$281.12	\$664.63	\$83,670.20	\$55,277.29	
136	\$83,670.20	\$278.90	\$666.84	\$83,003.36	\$55,556.19	
137	\$83,003.36	\$276.68	\$669.06	\$82,334.30	\$55,832.87	
138	\$82,334.30	\$274.45	\$671.29	\$81,663.01	\$56,107.32	
139	\$81,663.01	\$272.21	\$673.53	\$80,989.47	\$56,379.53	
140	\$80,989.47	\$269.96	\$675.78	\$80,313.70	\$56,649.49	
141	\$80,313.70	\$267.71	\$678.03	\$79,635.67	\$56,917.20	
142	\$79,635.67	\$265.45	\$680.29	\$78,955.38	\$57,182.66	
143	\$78,955.38	\$263.18	\$682.56	\$78,272.82	\$57,445.84	
144	\$78,272.82	\$260.91	\$684.83	\$77,587.99	\$57,706.75	
145	\$77,587.99	\$258.63	\$687.11	\$76,900.88	\$57,965.38	
146	\$76,900.88	\$256.34	\$689.41	\$76,211.47	\$58,221.71	
147	\$76,211.47	\$254.04	\$691.70	\$75,519.77	\$58,475.75	
148	\$75,519.77	\$251.73	\$694.01	\$74,825.76	\$58,727.48	
149	\$74,825.76	\$249.42	\$696.32	\$74,129.44	\$58,976.90	
150	\$74,129.44	\$247.10	\$698.64	\$73,430.79	\$59,224.00	
151	\$73,430.79	\$244.77	\$700.97	\$72,729.82	\$59,468.77	
152	\$72,729.82	\$242.43	\$703.31	\$72,026.51	\$59,711.20	
153	\$72,026.51	\$240.09	\$705.65	\$71,320.86	\$59,951.29	
154	\$71,320.86	\$237.74	\$708.01	\$70,612.85	\$60,189.03	
155	\$70,612.85	\$235.38	\$710.37	\$69,902.49	\$60,424.40	
156	\$69,902.49	\$233.01	\$712.73	\$69,189.76	\$60,657.41	
157	\$69,189.76	\$230.63	\$715.11	\$68,474.65	\$60,888.04	
158	\$68,474.65	\$228.25	\$717.49	\$67,757.15	\$61,116.29	
159	\$67,757.15	\$225.86	\$719.88	\$67,037.27	\$61,342.15	
160	\$67,037.27	\$223.46	\$722.28	\$66,314.99	\$61,565.61	
161	\$66,314.99	\$221.05	\$724.69	\$65,590.30	\$61,786.66	
162	\$65,590.30	\$218.63	\$727.11	\$64,863.19	\$62,005.29	
163	\$64,863.19	\$216.21	\$729.53	\$64,133.66	\$62,221.50	
164	\$64,133.66	\$213.78	\$731.96	\$63,401.70	\$62,435.28	
165	\$63,401.70	\$211.34	\$734.40	\$62,667.29	\$62,646.62	
166	\$62,667.29	\$208.89	\$736.85	\$61,930.44	\$62,855.51	
167	\$61,930.44	\$206.43	\$739.31	\$61,191.14	\$63,061.95	
168	\$61,191.14	\$203.97	\$741.77	\$60,449.36	\$63,265.92	
169	\$60,449.36	\$201.50	\$744.24	\$59,705.12	\$63,467.41	
170	\$59,705.12	\$199.02	\$746.72	\$58,958.40	\$63,666.43	

	• • •	<i>v</i> vv , <i>v</i> vv <i>v</i>	+	•··••	+	+
1	172	\$58,209.18	\$194.03	\$751.71	\$57,457.47	\$64,056.99
1	173	\$57,457.47	\$191.52	\$754.22	\$56,703.26	\$64,248.52
1	174	\$56,703.26	\$189.01	\$756.73	\$55,946.53	\$64,437.53
1	175	\$55,946.53	\$186.49	\$759.25	\$55,187.27	\$64,624.01
1	176	\$55,187.27	\$183.96	\$761.78	\$54,425.49	\$64,807.97
1	177	\$54,425.49	\$181.42	\$764.32	\$53,661.17	\$64,989.39
1	178	\$53,661.17	\$178.87	\$766.87	\$52,894.30	\$65,168.26
1	179	\$52,894.30	\$176.31	\$769.43	\$52,124.87	\$65,344.58
1	180	\$52,124.87	\$173.75	\$771.99	\$51,352.88	\$65,518.32
1	181	\$51,352.88	\$171.18	\$774.57	\$50,578.31	\$65,689.50
1	182	\$50,578.31	\$168.59	\$777.15	\$49,801.16	\$65,858.10
1	183	\$49,801.16	\$166.00	\$779.74	\$49,021.43	\$66,024.10

\$196.53

\$749.21

\$58,209.18

\$63,862.96

Estimated Capital Cost:	\$19,976,700
Number of Benefitting Properties:	128
Cost per Connection:	\$156,067.97

0.006059803

				Capital Cost	The covery racior - A -	0.000033000
Loan Amount	Interest Rate	Term in Years	Monthly Payment		Monthly Cost -P =	\$945.74
\$156,068.00	4.00%	20	\$945.74			
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest	
184	\$49,021.43	\$163.40	\$782.34	\$48,239.09	\$66,187.50	
185	\$48,239.09	\$160.80	\$784.94	\$47,454.15	\$66,348.30	
186	\$47,454.15	\$158.18	\$787.56	\$46,666.58	\$66,506.48	
187	\$46,666.58	\$155.56	\$790.19	\$45,876.40	\$66,662.04	
188	\$45,876.40	\$152.92	\$792.82	\$45,083.58	\$66,814.96	
189	\$45,083.58	\$150.28	\$795.46	\$44,288.12	\$66,965.24	
190	\$44,288.12	\$147.63	\$798.11	\$43,490.00	\$67,112.86	
191	\$43,490.00	\$144.97	\$800.77	\$42,689.23	\$67,257.83	
192	\$42,689.23	\$142.30	\$803.44	\$41,885.78	\$67,400.13	
193	\$41,885.78	\$139.62	\$806.12	\$41,079.66	\$67,539.75	
194	\$41,079.66	\$136.93	\$808.81	\$40,270.85	\$67,676.68	
195	\$40,270.85	\$134.24	\$811.51	\$39,459.35	\$67,810.92	
196	\$39,459.35	\$131.53	\$814.21	\$38,645.14	\$67,942.45	
197	\$38,645.14	\$128.82	\$816.92	\$37,828.21	\$68,071.26	
198	\$37,828.21	\$126.09	\$819.65	\$37,008.56	\$68,197.36	
199	\$37,008.56	\$123.36	\$822.38	\$36,186.19	\$68,320.72	
200	\$36,186.19	\$120.62	\$825.12	\$35,361.06	\$68,441.34	
201	\$35,361.06	\$117.87	\$827.87	\$34,533.19	\$68,559.21	
202	\$34,533.19	\$115.11	\$830.63	\$33,702.56	\$68,674.32	
203	\$33,702.56	\$112.34	\$833.40	\$32,869.16	\$68,786.66	
204	\$32,869.16	\$109.56	\$836.18	\$32,032.99	\$68,896.23	
205	\$32,032.99	\$106.78	\$838.96	\$31,194.02	\$69,003.00	
206	\$31,194.02	\$103.98	\$841.76	\$30,352.26	\$69,106.98	
207	\$30,352.26	\$101.17	\$844.57	\$29,507.69	\$69,208.16	
208	\$29,507.69	\$98.36	\$847.38	\$28,660.31	\$69,306.52	
209	\$28,660.31	\$95.53	\$850.21	\$27,810.10	\$69,402.05	
210	\$27,810.10	\$92.70	\$853.04	\$26,957.06	\$69,494.75	
211	\$26,957.06	\$89.86	\$855.88	\$26,101.18	\$69,584.61	
212	\$26,101.18	\$87.00	\$858.74	\$25,242.44	\$69,671.61	
212	\$25,242.44	\$84.14	\$861.60	\$24,380.84	\$69,755.75	
214	\$24,380.84	\$81.27	\$864.47	\$23,516.37	\$69,837.02	
215	\$23,516.37	\$78.39	\$867.35	\$22,649.01	\$69,915.41	
216	\$22,649.01	\$75.50	\$870.24	\$21,778.77	\$69,990.91	
217	\$21,778.77	\$72.60	\$873.15	\$20,905.62	\$70,063.50	
218	\$20,905.62	\$69.69	\$876.06	\$20,029.57	\$70,133.19	
219	\$20,029.57	\$66.77	\$878.98	\$19,150.59	\$70,199.95	
220	\$19,150.59	\$63.84	\$881.91	\$18,268.69	\$70,263.79	
220	\$18,268.69	\$60.90	\$884.85	\$17,383.84	\$70,324.69	
222	\$17,383.84	\$57.95	\$887.80	\$16,496.05	\$70,382.63	
223	\$16,496.05	\$54.99	\$890.75	\$15,605.29	\$70,437.62	
223	\$15,605.29	\$52.02	\$893.72	\$14,711.57	\$70,489.64	
225	\$14,711.57	\$49.04	\$896.70	\$13,814.86	\$70,538.67	
225	\$13,814.86	\$49.04 \$46.05	\$899.69	\$12,915.17	\$70,584.72	
220	\$12,915.17	\$40.05 \$43.05	\$999.69 \$902.69	\$12,012.48	\$70,584.72	
227	\$12,915.17 \$12,012.48	\$43.05 \$40.04	\$902.89 \$905.70	\$12,012.48 \$11,106.78	\$70,667.82	
220	\$12,012.48 \$11,106.78	\$40.04 \$37.02	\$908.70	\$10,198.06	\$70,704.84	
230 231	\$10,198.06 \$9,286.31	\$33.99 \$30.95	\$911.75 \$914.79	\$9,286.31 \$8,371.53	\$70,738.83 \$70,769.79	
231	\$8,371.53	\$30.95 \$27.91	\$914.79 \$917.84	\$7,453.69	\$70,797.69	
232	φ0,371.33 Φ7.450.00	φ27.91 ΦολοΓ	φ917.04 Φορο.ορ	\$7,405.09	\$70,797.09	

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233	\$7,453.69	\$24.85	\$920.90	\$6,532.80	\$70,822.54
234	\$6,532.80	\$21.78	\$923.97	\$5,608.83	\$70,844.31
235	\$5,608.83	\$18.70	\$927.05	\$4,681.79	\$70,863.01
236	\$4,681.79	\$15.61	\$930.14	\$3,751.65	\$70,878.62
237	\$3,751.65	\$12.51	\$933.24	\$2,818.41	\$70,891.12
238	\$2,818.41	\$9.39	\$936.35	\$1,882.07	\$70,900.52
239	\$1,882.07	\$6.27	\$939.47	\$942.60	\$70,906.79
240	\$942.60	\$3.14	\$942.60	\$0.00	\$70,909.93

Capital Cost Recovery Factor - A =

49

Estimated Capital Cost:	\$29,036,580
Number of Benefitting Properties:	128
Cost per Connection:	\$226,848.28

per Connection:			\$220,848.28		
	• • • • •			Capital Cost	= Recovery Factor - A = = Monthly Cost -P
Loan Amount	Interest Rate	Term in Years	Monthly Payment		
\$226,848.00	4.00%	10	\$2,296.73		
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest
1	\$226,848.00	\$756.16	\$1,540.57	\$225,307.43	\$756.16
2	\$225,307.43	\$751.02	\$1,545.70	\$223,761.73	\$1,507.18
3	\$223,761.73	\$745.87	\$1,550.85	\$222,210.88	\$2,253.06
4	\$222,210.88	\$740.70	\$1,556.02	\$220,654.86	\$2,993.76
5	\$220,654.86	\$735.52	\$1,561.21	\$219,093.65	\$3,729.28
6	\$219,093.65	\$730.31	\$1,566.41	\$217,527.23	\$4,459.59
7	\$217,527.23	\$725.09	\$1,571.63	\$215,955.60	\$5,184.68
8	\$215,955.60	\$719.85	\$1,576.87	\$214,378.73	\$5,904.53
9	\$214,378.73	\$714.60	\$1,582.13	\$212,796.60	\$6,619.13
10	\$212,796.60	\$709.32	\$1,587.40	\$211,209.19	\$7,328.45
11	\$211,209.19	\$704.03	\$1,592.70	\$209,616.50	\$8,032.48
12	\$209,616.50	\$698.72	\$1,598.00	\$208,018.49	\$8,731.20
13	\$208,018.49	\$693.39	\$1,603.33	\$206,415.16	\$9,424.60
14	\$206,415.16	\$688.05	\$1,608.68	\$204,806.49	\$10,112.65
15	\$204,806.49	\$682.69	\$1,614.04	\$203,192.45	\$10,795.34
16	\$203,192.45	\$677.31	\$1,619.42	\$201,573.03	\$11,472.64
17	\$201,573.03	\$671.91	\$1,624.82	\$199,948.22	\$12,144.55
18	\$199,948.22	\$666.49	\$1,630.23	\$198,317.98	\$12,811.05
19	\$198,317.98	\$661.06	\$1,635.67	\$196,682.32	\$13,472.11
20	\$196,682.32	\$655.61	\$1,641.12	\$195,041.20	\$14,127.72
20	\$195,041.20	\$650.14	\$1,646.59	\$193,394.61	\$14,777.85
22	\$193,394.61	\$644.65	\$1,652.08	\$191,742.54	\$15,422.50
23	\$191,742.54	\$639.14	\$1,657.58	\$190,084.95	\$16,061.64
23	\$190,084.95	\$633.62	\$1,663.11	\$188,421.84	\$16,695.26
24	\$188,421.84	\$628.07	\$1,668.65	\$186,753.19	\$17,323.33
26	\$186,753.19	\$622.51	\$1,674.22	\$185,078.97	\$17,945.84
20	\$185,078.97	\$616.93	\$1,679.80	\$183,399.18	\$18,562.77
28	\$183,399.18	\$611.33	\$1,685.40	\$181,713.78	\$19,174.10
29	\$181,713.78	\$605.71	\$1,691.01	\$180,022.77	\$19,779.82
30	\$180,022.77	\$600.08	\$1,696.65	\$178,326.12	\$20,379.89
31	\$178,326.12	\$594.42	\$1,702.31	\$176,623.82	\$20,979.89
32	\$176,623.82	\$588.75	\$1,707.98	\$174,915.84	
33	\$174,915.84	\$583.05	\$1,713.67	\$173,202.16	\$21,563.06 \$22,146.11
34	\$173,202.16	\$577.34	\$1,719.39	\$171,482.78	\$22,723.45
35	\$171,482.78	\$571.61	\$1,725.12	\$169,757.66	\$23,295.06
36	\$169,757.66	\$565.86	\$1,730.87	\$168,026.79	\$23,860.92
37	\$168,026.79	\$560.09	\$1,736.64	\$166,290.16	\$24,421.01
38	\$166,290.16	\$554.30	\$1,742.43	\$164,547.73	\$24,975.31
39	\$164,547.73	\$548.49	\$1,748.23	\$162,799.50	\$25,523.80
40	\$162,799.50	\$542.66	\$1,754.06	\$161,045.44	\$26,066.47
40	\$161,045.44	\$536.82	\$1,759.91	\$159,285.53	\$26,603.29
41	\$159,285.53	\$530.95	\$1,765.77	\$157,519.76	\$20,003.29 \$27,134.24
42	\$157,519.76	\$525.07	\$1,771.66	\$155,748.10	\$27,659.30
43 44	\$155,748.10	\$519.16	\$1,777.57	\$153,970.53	\$28,178.46
44 45	\$153,970.53	\$513.24	\$1,783.49	\$152,187.04	\$28,691.70
46	\$152,187.04	\$507.29	\$1,789.44	\$150,397.61	\$29,198.99
40 47	\$150,397.61	\$507.29	\$1,795.40	\$148,602.21	\$29,700.31
48	\$148,602.21	\$495.34	\$1,801.39	\$146,800.82	\$30,195.65
40	\$148,002.21 \$146,000,92	\$490.34 ¢490.24	\$1,801.39 ¢1.907.20	\$140,800.82 \$144,002,42	\$30,195.05 \$30,694.00

0.010124514 \$2,296.73

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50	\$144,993.43	\$483.31	\$1,813.41	\$143,180.02	\$31,168.30
51	\$143,180.02	\$477.27	\$1,819.46	\$141,360.56	\$31,645.57
52	\$141,360.56	\$471.20	\$1,825.52	\$139,535.03	\$32,116.77
53	\$139,535.03	\$465.12	\$1,831.61	\$137,703.42	\$32,581.89
54	\$137,703.42	\$459.01	\$1,837.71	\$135,865.71	\$33,040.90
55	\$135,865.71	\$452.89	\$1,843.84	\$134,021.87	\$33,493.78
56	\$134,021.87	\$446.74	\$1,849.99	\$132,171.88	\$33,940.52
57	\$132,171.88	\$440.57	\$1,856.15	\$130,315.73	\$34,381.10
58	\$130,315.73	\$434.39	\$1,862.34	\$128,453.39	\$34,815.48
59	\$128,453.39	\$428.18	\$1,868.55	\$126,584.84	\$35,243.66
60	\$126,584.84	\$421.95	\$1,874.78	\$124,710.07	\$35,665.61
61	\$124,710.07	\$415.70	\$1,881.03	\$122,829.04	\$36,081.31

\$1,807.39

\$144,993.43

\$30,684.99

\$489.34

\$146,800.82

Estimated Capital Cost:	\$29,036,580
Number of Benefitting Properties:	128
Cost per Connection:	\$226,848.28

ist per Connection:			\$220,848.28			
				Capital Cost	Recovery Factor - A =	0.010124514
Loan Amount	Interest Rate	Term in Years	Monthly Payment		Monthly Cost -P =	\$2,296.73
\$226,848.00	4.00%	10	\$2,296.73			
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest	
62	\$122,829.04	\$409.43	\$1,887.30	\$120,941.75	\$36,490.74	
63	\$120,941.75	\$403.14	\$1,893.59	\$119,048.16	\$36,893.88	
64	\$119,048.16	\$396.83	\$1,899.90	\$117,148.26	\$37,290.71	
65	\$117,148.26	\$390.49	\$1,906.23	\$115,242.03	\$37,681.20	
66	\$115,242.03	\$384.14	\$1,912.59	\$113,329.44	\$38,065.34	
67	\$113,329.44	\$377.76	\$1,918.96	\$111,410.48	\$38,443.11	
68	\$111,410.48	\$371.37	\$1,925.36	\$109,485.13	\$38,814.47	
69	\$109,485.13	\$364.95	\$1,931.78	\$107,553.35	\$39,179.42	
70	\$107,553.35	\$358.51	\$1,938.21	\$105,615.14	\$39,537.94	
70	\$105,615.14	\$352.05	\$1,944.68	\$103,670.46	\$39,889.99	
72	\$103,670.46	\$345.57	\$1,951.16	\$101,719.30	\$40,235.55	
73	\$101,719.30	\$339.06	\$1,957.66	\$99,761.64	\$40,574.62	
74	\$99,761.64	\$332.54	\$1,964.19	\$97,797.46	\$40,907.16	
75	\$97,797.46	\$325.99	\$1,970.73	\$95,826.72	\$41,233.15	
76	\$95,826.72	\$319.42	\$1,977.30	\$93,849.42	\$41,552.57	
77	\$93,849.42	\$312.83	\$1,983.89	\$91,865.52	\$41,865.40	
78	\$91,865.52	\$306.22	\$1,990.51	\$89,875.02	\$42,171.62	
79	\$89,875.02	\$299.58	\$1,997.14	\$87,877.87	\$42,471.20	
80	\$87,877.87	\$292.93	\$2,003.80	\$85,874.07	\$42,764.13	
81	\$85,874.07	\$286.25	\$2,010.48	\$83,863.60	\$43,050.38	
82	\$83,863.60	\$279.55	\$2,017.18	\$81,846.42	\$43,329.92	
83	\$81,846.42	\$272.82	\$2,023.90	\$79,822.51	\$43,602.74	
84	\$79,822.51	\$266.08	\$2,030.65	\$77,791.86	\$43,868.82	
85	\$77,791.86	\$259.31	\$2,037.42	\$75,754.44	\$44,128.13	
86	\$75,754.44	\$252.51	\$2,044.21	\$73,710.23	\$44,380.64	
87	\$73,710.23	\$245.70	\$2,051.02	\$71,659.20	\$44,626.34	
88	\$71,659.20	\$238.86	\$2,057.86	\$69,601.34	\$44,865.21	
89	\$69,601.34	\$232.00	\$2,064.72	\$67,536.62	\$45,097.21	
90	\$67,536.62	\$225.12	\$2,071.60	\$65,465.02	\$45,322.33	
91	\$65,465.02	\$218.22	\$2,078.51	\$63,386.51	\$45,540.55	
92	\$63,386.51	\$211.29	\$2,085.44	\$61,301.07	\$45,751.84	
93	\$61,301.07	\$204.34	\$2,092.39	\$59,208.68	\$45,956.17	
94	\$59,208.68	\$197.36	\$2,099.36	\$57,109.32	\$46,153.54	
95	\$57,109.32	\$190.36	\$2,106.36	\$55,002.96	\$46,343.90	
96	\$55,002.96	\$183.34	\$2,113.38	\$52,889.58	\$46,527.24	
97	\$52,889.58	\$176.30	\$2,120.43	\$50,769.15	\$46,703.54	
98	\$50,769.15	\$169.23	\$2,127.50	\$48,641.65	\$46,872.77	
99	\$48,641.65	\$162.14	\$2,134.59	\$46,507.07	\$47,034.91	
100	\$46,507.07	\$155.02	\$2,141.70	\$44,365.36	\$47,189.94	
101	\$44,365.36	\$147.88	\$2,148.84	\$42,216.52	\$47,337.82	
102	\$42,216.52	\$140.72	\$2,156.00	\$40,060.52	\$47,478.54	
103	\$40,060.52	\$133.54	\$2,163.19	\$37,897.33	\$47,612.08	
104	\$37,897.33	\$126.32	\$2,170.40	\$35,726.93	\$47,738.40	
105	\$35,726.93	\$119.09	\$2,177.64	\$33,549.29	\$47,857.49	
106	\$33,549.29	\$111.83	\$2,184.89	\$31,364.40	\$47,969.32	
107	\$31,364.40	\$104.55	\$2,192.18	\$29,172.22	\$48,073.87	
108	\$29,172.22	\$97.24	\$2,199.48	\$26,972.73	\$48,171.11	
109	\$26,972.73	\$89.91	\$2,206.82	\$24,765.92	\$48,261.02	
110	¢04 765 00	¢00 55	¢0 014 17	COD EE1 74	¢40.242.57	

110	\$24,765.92	\$82.55	\$2,214.17	\$22,551.74	\$48,343.57
111	\$22,551.74	\$75.17	\$2,221.55	\$20,330.19	\$48,418.75
112	\$20,330.19	\$67.77	\$2,228.96	\$18,101.23	\$48,486.51
113	\$18,101.23	\$60.34	\$2,236.39	\$15,864.84	\$48,546.85
114	\$15,864.84	\$52.88	\$2,243.84	\$13,621.00	\$48,599.73
115	\$13,621.00	\$45.40	\$2,251.32	\$11,369.68	\$48,645.14
116	\$11,369.68	\$37.90	\$2,258.83	\$9,110.85	\$48,683.04
117	\$9,110.85	\$30.37	\$2,266.36	\$6,844.50	\$48,713.40
118	\$6,844.50	\$22.81	\$2,273.91	\$4,570.59	\$48,736.22
119	\$4,570.59	\$15.24	\$2,281.49	\$2,289.10	\$48,751.45
120	\$2,289.10	\$7.63	\$2,289.10	\$0.00	\$48,759.09

Estimated Capital Cost:	\$29,036,580
Number of Benefitting Properties:	128
Cost per Connection:	\$226,848.28

Loan Amount	Interest Rate	Term in Years	Monthly Payment		Monthly Cost -P =
\$226,848.00	4.00%	15	\$1,677.97		
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest
1	\$226,848.00	\$756.16	\$921.81	\$225,926.19	\$756.16
2	\$225,926.19	\$753.09	\$924.88	\$225,001.31	\$1,509.25
3	\$225,001.31	\$750.00	\$927.96	\$224,073.35	\$2,259.25
4	\$224,073.35	\$746.91	\$931.06	\$223,142.29	\$3,006.16
5	\$223,142.29	\$743.81	\$934.16	\$222,208.13	\$3,749.97
6	\$222,208.13	\$740.69	\$937.27	\$221,270.86	\$4,490.66
7	\$221,270.86	\$737.57	\$940.40	\$220,330.46	\$5,228.23
8	\$220,330.46	\$734.43	\$943.53	\$219,386.93	\$5,962.67
9	\$219,386.93	\$731.29	\$946.68	\$218,440.25	\$6,693.96
10	\$218,440.25	\$728.13	\$949.83	\$217,490.42	\$7,422.09
11	\$217,490.42	\$724.97	\$953.00	\$216,537.42	\$8,147.06
12	\$216,537.42	\$721.79	\$956.18	\$215,581.24	\$8,868.85
13	\$215,581.24	\$718.60	\$959.36	\$214,621.88	\$9,587.46
14	\$214,621.88	\$715.41	\$962.56	\$213,659.32	\$10,302.86
15	\$213,659.32	\$712.20	\$965.77	\$212,693.55	\$11,015.06
16	\$212,693.55	\$708.98	\$968.99	\$211,724.56	\$11,724.04
17	\$211,724.56	\$705.75	\$972.22	\$210,752.34	\$12,429.79
18	\$210,752.34	\$702.51	\$975.46	\$209,776.88	\$13,132.30
19	\$209,776.88	\$699.26	\$978.71	\$208,798.17	\$13,831.55
20	\$208,798.17	\$695.99	\$981.97	\$207,816.20	\$14,527.55
21	\$207,816.20	\$692.72	\$985.25	\$206,830.95	\$15,220.27
22	\$206,830.95	\$689.44	\$988.53	\$205,842.42	\$15,909.70
23	\$205,842.42	\$686.14	\$991.83	\$204,850.60	\$16,595.84
24	\$204,850.60	\$682.84	\$995.13	\$203,855.46	\$17,278.68
25	\$203,855.46	\$679.52	\$998.45	\$202,857.02	\$17,958.20
26	\$202,857.02	\$676.19	\$1,001.78	\$201,855.24	\$18,634.39
27	\$201,855.24	\$672.85	\$1,005.12	\$200,850.12	\$19,307.24
28	\$200,850.12	\$669.50	\$1,008.47	\$199,841.66	\$19,976.74
29	\$199,841.66	\$666.14	\$1,011.83	\$198,829.83	\$20,642.88
30	\$198,829.83	\$662.77	\$1,015.20	\$197,814.63	\$21,305.64
31	\$197,814.63	\$659.38	\$1,018.59	\$196,796.04	\$21,965.03
32	\$196,796.04	\$655.99	\$1,021.98	\$195,774.06	\$22,621.01
33	\$195,774.06	\$652.58	\$1,025.39	\$194,748.67	\$23,273.59
34	\$194,748.67	\$649.16	\$1,028.81	\$193,719.87	\$23,922.75
35	\$193,719.87	\$645.73	\$1,032.23	\$192,687.63	\$24,568.49
36	\$192,687.63	\$642.29	\$1,035.68	\$191,651.96	\$25,210.78
37	\$191,651.96	\$638.84	\$1,039.13	\$190,612.83	\$25,849.62
38	\$190,612.83	\$635.38	\$1,042.59	\$189,570.24	\$26,485.00
39	\$189,570.24	\$631.90	\$1,046.07	\$188,524.17	\$27,116.90
40	\$188,524.17	\$628.41	\$1,049.55	\$187,474.62	\$27,745.31
40 41	\$187,474.62	\$624.92	\$1,053.05	\$186,421.57	\$28,370.23
41	\$186,421.57	\$621.41	\$1,056.56	\$185,365.01	\$28,991.63
42	\$185,365.01	\$617.88	\$1,060.08	\$184,304.92	\$29,609.51
44	\$184,304.92 \$183,241,30	\$614.35 \$610.80	\$1,063.62 \$1,067.16	\$183,241.30 \$182,174,14	\$30,223.86 \$30,834,67
45	\$183,241.30 \$182,174,14	\$610.80 \$607.25	\$1,067.16 \$1,070.72	\$182,174.14 \$181 102 42	\$30,834.67 \$31,441,02
46	\$182,174.14 \$181,102,42	\$607.25 \$602.68	\$1,070.72	\$181,103.42 \$180,030,13	\$31,441.92 \$32,045,50
47	\$181,103.42 \$180,020,12	\$603.68 \$600.10	\$1,074.29 \$1,077.87	\$180,029.13 \$178.051.26	\$32,045.59 \$32,645,60
48	\$180,029.13 \$178.051.26	\$600.10 \$506.50	\$1,077.87 \$1,081.46	\$178,951.26 \$177,860,80	\$32,645.69 \$32,242,20
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0.007396879 \$1,677.97

Capital Cost Recovery Factor - A =

	+	+	+ .,	+ · · · ,	+
50	\$177,869.80	\$592.90	\$1,085.07	\$176,784.73	\$33,835.09
51	\$176,784.73	\$589.28	\$1,088.68	\$175,696.05	\$34,424.38
52	\$175,696.05	\$585.65	\$1,092.31	\$174,603.73	\$35,010.03
53	\$174,603.73	\$582.01	\$1,095.95	\$173,507.78	\$35,592.04
54	\$173,507.78	\$578.36	\$1,099.61	\$172,408.17	\$36,170.40
55	\$172,408.17	\$574.69	\$1,103.27	\$171,304.90	\$36,745.10
56	\$171,304.90	\$571.02	\$1,106.95	\$170,197.95	\$37,316.11
57	\$170,197.95	\$567.33	\$1,110.64	\$169,087.30	\$37,883.44
58	\$169,087.30	\$563.62	\$1,114.34	\$167,972.96	\$38,447.06
59	\$167,972.96	\$559.91	\$1,118.06	\$166,854.90	\$39,006.97
60	\$166,854.90	\$556.18	\$1,121.78	\$165,733.12	\$39,563.16
61	\$165,733.12	\$552.44	\$1,125.52	\$164,607.60	\$40,115.60

\$1,081.46

\$596.50

\$177.869.80

\$33.242.20

\$178.951.26

49

Estimated Capital Cost:	\$29,036,580
Number of Benefitting Properties:	128
Cost per Connection:	\$226,848.28

cost per com	ection.		JZZ0,040.20	Operative I Operat		0 007000070
Loan Amo	ount Interest Rate	Term in Years	Monthly Payment	Capital Cost	Recovery Factor - A = Monthly Cost -P =	0.007396879 \$1,677.97
\$226,848		15	\$1,677.97			
\$ 0,0.0			<i>•</i> .,••.			
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest	
62	\$164,607.60	\$548.69	\$1,129.28	\$163,478.32	\$40,664.29	
63	\$163,478.32	\$544.93	\$1,133.04	\$162,345.28	\$41,209.22	
64	\$162,345.28	\$541.15	\$1,136.82	\$161,208.47	\$41,750.37	
65	\$161,208.47	\$537.36	\$1,140.61	\$160,067.86	\$42,287.73	
66	\$160,067.86	\$533.56	\$1,144.41	\$158,923.45	\$42,821.29	
67	\$158,923.45	\$529.74	\$1,148.22	\$157,775.23	\$43,351.04	
68	\$157,775.23	\$525.92	\$1,152.05	\$156,623.18	\$43,876.95	
69	\$156,623.18	\$522.08	\$1,155.89	\$155,467.29	\$44,399.03	
70	\$155,467.29	\$518.22	\$1,159.74	\$154,307.55	\$44,917.26	
71	\$154,307.55	\$514.36	\$1,163.61	\$153,143.94	\$45,431.61	
72	\$153,143.94	\$510.48	\$1,167.49	\$151,976.45	\$45,942.09	
73	\$151,976.45	\$506.59	\$1,171.38	\$150,805.07	\$46,448.68	
74	\$150,805.07	\$502.68	\$1,175.28	\$149,629.79	\$46,951.37	
75	\$149,629.79	\$498.77	\$1,179.20	\$148,450.59	\$47,450.13	
76	\$148,450.59	\$494.84	\$1,183.13	\$147,267.45	\$47,944.97	
77	\$147,267.45	\$490.89	\$1,187.08	\$146,080.38	\$48,435.86	
78	\$146,080.38	\$486.93	\$1,191.03	\$144,889.35	\$48,922.79	
79	\$144,889.35	\$482.96	\$1,195.00	\$143,694.34	\$49,405.76	
80	\$143,694.34	\$478.98	\$1,198.99	\$142,495.36	\$49,884.74	
81	\$142,495.36	\$474.98	\$1,202.98	\$141,292.37	\$50,359.72	
82	\$141,292.37	\$470.97	\$1,206.99	\$140,085.38	\$50,830.70	
83	\$140,085.38	\$466.95	\$1,211.02	\$138,874.37	\$51,297.65	
84	\$138,874.37	\$462.91	\$1,215.05	\$137,659.31	\$51,760.56	
85	\$137,659.31	\$458.86	\$1,219.10	\$136,440.21	\$52,219.43	
86	\$136,440.21	\$454.80	\$1,223.17	\$135,217.04	\$52,674.23	
87	\$135,217.04	\$450.72	\$1,227.24	\$133,989.80	\$53,124.95	
88	\$133,989.80	\$446.63	\$1,231.33	\$132,758.47	\$53,571.58	
89	\$132,758.47	\$442.53	\$1,235.44	\$131,523.03	\$54,014.11	
90	\$131,523.03	\$438.41	\$1,239.56	\$130,283.47	\$54,452.52	
91	\$130,283.47	\$434.28	\$1,243.69	\$129,039.78	\$54,886.80	
92	\$129,039.78	\$430.13	\$1,247.83	\$127,791.95	\$55,316.93	
93	\$127,791.95	\$425.97	\$1,251.99	\$126,539.95	\$55,742.91	
94	\$126,539.95	\$421.80	\$1,256.17	\$125,283.78	\$56,164.71	
95	\$125,283.78	\$417.61	\$1,260.35	\$124,023.43	\$56,582.32	
96	\$124,023.43	\$413.41	\$1,264.56	\$122,758.87	\$56,995.73	
97	\$122,758.87	\$409.20	\$1,268.77	\$121,490.10	\$57,404.93	
98	\$121,490.10	\$404.97	\$1,273.00	\$120,217.10	\$57,809.89	
99	\$120,217.10	\$400.72	\$1,277.24	\$118,939.86	\$58,210.62	
100	\$118,939.86	\$396.47	\$1,281.50	\$117,658.36	\$58,607.08	
101	\$117,658.36	\$392.19	\$1,285.77	\$116,372.58	\$58,999.28	
102	\$116,372.58	\$387.91	\$1,290.06	\$115,082.53	\$59,387.19	
103	\$115,082.53	\$383.61	\$1,294.36	\$113,788.17	\$59,770.80	
104	\$113,788.17	\$379.29	\$1,298.67	\$112,489.49	\$60,150.09	
105	\$112,489.49	\$374.96	\$1,303.00	\$111,186.49	\$60,525.05	
106	\$111,186.49	\$370.62	\$1,307.35	\$109,879.15	\$60,895.68	
107	\$109,879.15	\$366.26	\$1,311.70	\$108,567.44	\$61,261.94	
108	\$108,567.44	\$361.89	\$1,316.08	\$107,251.37	\$61,623.83	
109	\$107,251.37 \$105,930,90	\$357.50 \$353.10	\$1,320.46 \$1,324.86	\$105,930.90 \$104,606,04	\$61,981.34 \$62,334,44	
111		N N N N N	S 3// 86			

	+ ,	+	+ .,	+ ,	+,
111	\$104,606.04	\$348.69	\$1,329.28	\$103,276.76	\$62,683.13
112	\$103,276.76	\$344.26	\$1,333.71	\$101,943.05	\$63,027.38
113	\$101,943.05	\$339.81	\$1,338.16	\$100,604.89	\$63,367.19
114	\$100,604.89	\$335.35	\$1,342.62	\$99,262.27	\$63,702.54
115	\$99,262.27	\$330.87	\$1,347.09	\$97,915.18	\$64,033.42
116	\$97,915.18	\$326.38	\$1,351.58	\$96,563.60	\$64,359.80
117	\$96,563.60	\$321.88	\$1,356.09	\$95,207.51	\$64,681.68
118	\$95,207.51	\$317.36	\$1,360.61	\$93,846.90	\$64,999.04
119	\$93,846.90	\$312.82	\$1,365.14	\$92,481.75	\$65,311.86
120	\$92,481.75	\$308.27	\$1,369.69	\$91,112.06	\$65,620.13
121	\$91,112.06	\$303.71	\$1,374.26	\$89,737.80	\$65,923.84
122	\$89,737.80	\$299.13	\$1,378.84	\$88,358.96	\$66,222.96

\$353.10

\$1,324.86

\$105,930.90

110

\$104,606.04

\$62,334.44

Estimated Capital Cost:	\$29,036,580
Number of Benefitting Properties:	128
Cost per Connection:	\$226,848.28

				Capital Cos	Recovery Factor - A -
Loan Amount	Interest Rate	Term in Years	Monthly Payment		Monthly Cost -P =
\$226,848.00	4.00%	15	\$1,677.97		
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest
123	\$88,358.96	\$294.53	\$1,383.44	\$86,975.52	\$66,517.49
124	\$86,975.52	\$289.92	\$1,388.05	\$85,587.47	\$66,807.41
125	\$85,587.47	\$285.29	\$1,392.68	\$84,194.80	\$67,092.70
126	\$84,194.80	\$280.65	\$1,397.32	\$82,797.48	\$67,373.35
127	\$82,797.48	\$275.99	\$1,401.98	\$81,395.50	\$67,649.35
128	\$81,395.50	\$271.32	\$1,406.65	\$79,988.85	\$67,920.66
129	\$79,988.85	\$266.63	\$1,411.34	\$78,577.52	\$68,187.29
130	\$78,577.52	\$261.93	\$1,416.04	\$77,161.47	\$68,449.22
131	\$77,161.47	\$257.20	\$1,420.76	\$75,740.71	\$68,706.42
132	\$75,740.71	\$252.47	\$1,425.50	\$74,315.21	\$68,958.89
133	\$74,315.21	\$247.72	\$1,430.25	\$72,884.96	\$69,206.61
134	\$72,884.96	\$242.95	\$1,435.02	\$71,449.95	\$69,449.56
135	\$71,449.95	\$238.17	\$1,439.80	\$70,010.15	\$69,687.73
136	\$70,010.15	\$233.37	\$1,444.60	\$68,565.55	\$69,921.09
137	\$68,565.55	\$228.55	\$1,449.42	\$67,116.13	\$70,149.65
138	\$67,116.13	\$223.72	\$1,454.25	\$65,661.88	\$70,373.37
139	\$65,661.88	\$218.87	\$1,459.09	\$64,202.79	\$70,592.24
140	\$64,202.79	\$214.01	\$1,463.96	\$62,738.83	\$70,806.25
141	\$62,738.83	\$209.13	\$1,468.84	\$61,269.99	\$71,015.38
142	\$61,269.99	\$204.23	\$1,473.73	\$59,796.26	\$71,219.61
143	\$59,796.26	\$199.32	\$1,478.65	\$58,317.61	\$71,418.93
143	\$58,317.61	\$199.32	\$1,483.58	\$56,834.04	\$71,613.32
145	\$56,834.04	\$189.45	\$1,488.52	\$55,345.52	\$71,802.77
145	\$55,345.52	\$184.49	\$1,493.48	\$53,852.03	\$71,987.26
140	\$53,852.03	\$179.51	\$1,498.46	\$52,353.57	\$72,166.76
148	\$52,353.57	\$174.51	\$1,503.46	\$50,850.12	\$72,341.27
148	\$50,850.12	\$169.50	\$1,508.47	\$49,341.65	\$72,510.77
150	\$49,341.65	\$164.47	\$1,513.50	\$47,828.16	\$72,675.25
151	\$47,828.16	\$159.43	\$1,518.54	\$46,309.62	\$72,834.67
152	\$46,309.62	\$154.37	\$1,523.60	\$44,786.01	\$72,989.04
152	\$44,786.01	\$149.29	\$1,528.68	\$43,257.33	\$73,138.33
153	\$43,257.33	\$149.29	\$1,528.08	\$43,237.33	\$73,282.52
155	\$41,723.56	\$139.08	\$1,538.89	\$40,184.67	\$73,421.60
155	\$40,184.67	\$133.95	\$1,538.89 \$1,544.02	\$38,640.65	\$73,555.54
150	\$38,640.65	\$128.80	\$1,549.17	\$37,091.49	\$73,684.35
157	\$37,091.49	\$123.64	\$1,554.33	\$35,537.16	\$73,807.98
158	\$35,537.16	\$123.04 \$118.46	\$1,559.51	\$33,977.65	\$73,926.44
160	\$33,977.65	\$113.26	\$1,564.71	\$32,412.94	\$73,920.44 \$74,039.70
161	\$32,412.94	\$108.04	\$1,569.92	\$30,843.01	\$74,147.74
162	\$30,843.01	\$102.81	\$1,509.92 \$1,575.16	\$29,267.86	
162		\$102.81	\$1,575.16 \$1,580.41		\$74,250.55 \$74,348,11
163	\$29,267.86 \$27,687.45			\$27,687.45 \$26 101 77	\$74,348.11 \$74,440,41
		\$92.29 \$87.01	\$1,585.68 \$1,500.06	\$26,101.77 \$24,510,81	\$74,440.41 \$74,527.41
165	\$26,101.77 \$24,510,81	\$87.01 \$81.70	\$1,590.96 \$1,596.26	\$24,510.81 \$22,014,55	\$74,527.41 \$74,600,11
166 167	\$24,510.81 \$22,014,55	\$81.70 \$76.28	\$1,596.26 \$1,601.50	\$22,914.55 \$21,212.06	\$74,609.11 \$74,685,50
167	\$22,914.55	\$76.38 \$71.04	\$1,601.59 \$1,606.02	\$21,312.96 \$10,706,04	\$74,685.50 \$74,756,54
168	\$21,312.96 \$10,706.04	\$71.04 \$65.60	\$1,606.92	\$19,706.04 \$18,003,76	\$74,756.54
169	\$19,706.04 \$18,002,76	\$65.69 \$60.31	\$1,612.28 \$1,617.65	\$18,093.76 \$16,476,10	\$74,822.23 \$74,882.54
170	\$18,093.76 \$16,476,10	\$60.31 \$54.02	\$1,617.65 \$1,622.05	\$16,476.10 \$14,853.06	\$74,882.54 \$74,027,46

0.007396879 \$1,677.97

Capital Cost Recovery Factor - A =

\$74,937.46

	+ ,	+	+ .,	+,	+ · · · · · · · · · · ·
172	\$14,853.06	\$49.51	\$1,628.46	\$13,224.60	\$74,986.97
173	\$13,224.60	\$44.08	\$1,633.89	\$11,590.71	\$75,031.05
174	\$11,590.71	\$38.64	\$1,639.33	\$9,951.38	\$75,069.69
175	\$9,951.38	\$33.17	\$1,644.80	\$8,306.59	\$75,102.86
176	\$8,306.59	\$27.69	\$1,650.28	\$6,656.31	\$75,130.55
177	\$6,656.31	\$22.19	\$1,655.78	\$5,000.53	\$75,152.73
178	\$5,000.53	\$16.67	\$1,661.30	\$3,339.23	\$75,169.40
179	\$3,339.23	\$11.13	\$1,666.84	\$1,672.39	\$75,180.53
180	\$1,672.39	\$5.57	\$1,672.39	\$0.00	\$75,186.11

\$1,623.05

\$14,853.06

\$54.92

\$16,476.10

171

47

48

49

\$196,155.29

\$195,434.49

\$194,711.29

Estimated Capital Cost:	\$29,036,580
Number of Benefitting Properties:	128
Cost per Connection:	\$226,848.28

Loan Amount **Interest Rate Term in Years Monthly Payment** Monthly Cost -P = \$226,848.00 4.00% 20 \$1,374.65 Month Interest StartingBalance Principal EndingBalance TotalInterest \$226,848.00 \$756.16 \$618.49 \$226,229.51 \$756.16 1 2 \$226,229.51 \$754.10 \$620.56 \$225,608.95 \$1,510.26 \$224,986.33 3 \$225,608.95 \$752.03 \$622.62 \$2,262.29 4 \$224,986.33 \$749.95 \$624.70 \$224,361.63 \$3,012.24 5 \$224,361.63 \$747.87 \$626.78 \$223,734.84 \$3,760.11 6 \$223,734.84 \$745.78 \$628.87 \$223,105.97 \$4,505.90 7 \$223,105.97 \$743.69 \$630.97 \$222,475.00 \$5,249.58 8 \$222,475.00 \$741.58 \$633.07 \$221,841.93 \$5,991.17 9 \$221,841.93 \$739.47 \$635.18 \$221,206.75 \$6,730.64 10 \$221,206.75 \$737.36 \$637.30 \$220,569.45 \$7,468.00 \$8,203.23 11 \$220,569.45 \$735.23 \$639.42 \$219,930.03 12 \$219,930.03 \$733.10 \$641.55 \$219,288.48 \$8,936.33 13 \$218,644.78 \$9,667.29 \$219,288.48 \$730.96 \$643.69 14 \$218,644.78 \$728.82 \$645.84 \$217,998.95 \$10,396.11 15 \$217,998.95 \$726.66 \$647.99 \$217,350.95 \$11,122.77 16 \$217,350.95 \$11,847.27 \$724.50 \$650.15 \$216,700.80 \$722.34 \$652.32 17 \$216,700.80 \$216,048.49 \$12,569.61 18 \$654.49 \$215,393.99 \$13,289.77 \$216,048.49 \$720.16 19 \$215,393.99 \$717.98 \$656.67 \$214,737.32 \$14,007.75 20 \$658.86 \$214,078.46 \$14,723.54 \$214,737.32 \$715.79 21 \$661.06 \$214,078.46 \$713.59 \$213,417.40 \$15,437.14 22 \$711.39 \$663.26 \$212,754.13 \$16,148.53 \$213,417.40 23 \$709.18 \$212,754.13 \$665.47 \$212,088.66 \$16,857.71 24 \$212,088.66 \$706.96 \$667.69 \$211,420.97 \$17,564.67 25 \$211,420.97 \$704.74 \$669.92 \$210,751.05 \$18,269.41 26 \$210,751.05 \$702.50 \$672.15 \$210,078.90 \$18,971.91 27 \$210,078.90 \$700.26 \$674.39 \$209,404.51 \$19,672.17 28 \$209,404.51 \$698.02 \$676.64 \$208,727.87 \$20,370.19 29 \$678.89 \$208,048.97 \$21,065.95 \$208,727.87 \$695.76 30 \$693.50 \$681.16 \$207,367.82 \$21,759.44 \$208,048.97 31 \$207,367.82 \$691.23 \$683.43 \$206,684.39 \$22,450.67 32 \$206,684.39 \$688.95 \$685.71 \$205,998.68 \$23,139.62 33 \$205,998.68 \$686.66 \$687.99 \$205,310.69 \$23,826.28 34 \$205,310.69 \$684.37 \$690.29 \$204,620.40 \$24,510.65 35 \$204,620.40 \$682.07 \$692.59 \$203,927.82 \$25,192.72 36 \$203,927.82 \$679.76 \$694.89 \$203,232.92 \$25,872.48 37 \$203,232.92 \$677.44 \$697.21 \$202,535.71 \$26,549.92 38 \$202,535.71 \$675.12 \$699.54 \$201,836.18 \$27,225.04 39 \$201,836.18 \$672.79 \$701.87 \$201,134.31 \$27,897.83 40 \$201,134.31 \$670.45 \$704.21 \$200,430.10 \$28,568.27 41 \$200,430.10 \$668.10 \$706.55 \$199,723.55 \$29,236.37 42 \$29,902.12 \$199,723.55 \$665.75 \$708.91 \$199,014.64 43 \$663.38 \$198,303.37 \$30,565.50 \$199,014.64 \$711.27 44 \$198,303.37 \$661.01 \$713.64 \$197,589.72 \$31,226.51 \$196,873.70 45 \$197,589.72 \$658.63 \$716.02 \$31,885.14 46 \$196,873.70 \$656.25 \$718.41 \$196,155.29 \$32,541.39

0.006059803

\$1,374.65

Capital Cost Recovery Factor - A =

	+	+	+	+	+,
50	\$193,985.67	\$646.62	\$728.04	\$193,257.63	\$35,142.35
51	\$193,257.63	\$644.19	\$730.46	\$192,527.17	\$35,786.54
52	\$192,527.17	\$641.76	\$732.90	\$191,794.27	\$36,428.30
53	\$191,794.27	\$639.31	\$735.34	\$191,058.93	\$37,067.61
54	\$191,058.93	\$636.86	\$737.79	\$190,321.14	\$37,704.47
55	\$190,321.14	\$634.40	\$740.25	\$189,580.89	\$38,338.88
56	\$189,580.89	\$631.94	\$742.72	\$188,838.17	\$38,970.81
57	\$188,838.17	\$629.46	\$745.19	\$188,092.98	\$39,600.27
58	\$188,092.98	\$626.98	\$747.68	\$187,345.30	\$40,227.25
59	\$187,345.30	\$624.48	\$750.17	\$186,595.13	\$40,851.73
60	\$186,595.13	\$621.98	\$752.67	\$185,842.46	\$41,473.72
61	\$185,842.46	\$619.47	\$755.18	\$185,087.28	\$42,093.19

\$720.80

\$723.21

\$725.62

\$195,434.49

\$194,711.29

\$193,985.67

\$33,195.24

\$33,846.69

\$34,495.73

\$653.85

\$651.45

\$649.04

106

107

108

109

110

\$149,243.95

\$148,366.77

\$147,486.68

\$146,603.64

\$145,717.67

Estimated Capital Cost:	\$29,036,580
Number of Benefitting Properties:	128
Cost per Connection:	\$226,848.28

Loan Amount **Interest Rate Term in Years Monthly Payment** Monthly Cost -P = \$226,848.00 4.00% 20 \$1,374.65 Month StartingBalance Interest Principal EndingBalance TotalInterest 62 \$185,087.28 \$42,710.15 \$616.96 \$757.70 \$184,329.59 63 \$184,329.59 \$614.43 \$760.22 \$183,569.36 \$43,324.58 64 \$183,569.36 \$611.90 \$762.76 \$182,806.61 \$43,936.48 65 \$182,806.61 \$609.36 \$765.30 \$182,041.31 \$44,545.84 66 \$182,041.31 \$606.80 \$767.85 \$181,273.46 \$45,152.64 67 \$181,273.46 \$604.24 \$770.41 \$180,503.05 \$45,756.89 68 \$180,503.05 \$601.68 \$772.98 \$179,730.07 \$46,358.56 69 \$179,730.07 \$599.10 \$775.55 \$178,954.52 \$46,957.66 70 \$178,954.52 \$596.52 \$778.14 \$178,176.38 \$47,554.18 71 \$178,176.38 \$593.92 \$780.73 \$177,395.65 \$48,148.10 72 \$177,395.65 \$591.32 \$783.34 \$176,612.31 \$48,739.42 73 \$176,612.31 \$588.71 \$785.95 \$175,826.36 \$49,328.13 74 \$175,826.36 \$586.09 \$788.57 \$175,037.80 \$49,914.21 75 \$175,037.80 \$583.46 \$174,246.60 \$791.19 \$50,497.67 76 \$174,246.60 \$580.82 \$793.83 \$173,452.77 \$51,078.49 77 \$173,452.77 \$578.18 \$796.48 \$51,656.67 \$172,656.29 78 \$172,656.29 \$575.52 \$799.13 \$171,857.16 \$52,232.19 \$52,805.05 79 \$801.80 \$171,857.16 \$572.86 \$171,055.36 80 \$171,055.36 \$570.18 \$804.47 \$170,250.89 \$53,375.23 \$53,942.74 81 \$170,250.89 \$807.15 \$567.50 \$169,443.74 82 \$169,443.74 \$809.84 \$564.81 \$168,633.90 \$54,507.55 83 \$168,633.90 \$562.11 \$812.54 \$167,821.36 \$55,069.66 84 \$815.25 \$167,821.36 \$559.40 \$167,006.11 \$55,629.07 \$556.69 85 \$167,006.11 \$817.97 \$166,188.14 \$56,185.75 86 \$553.96 \$820.69 \$56,739.71 \$166,188.14 \$165,367.45 87 \$165,367.45 \$551.22 \$823.43 \$164,544.02 \$57,290.94 88 \$826.17 \$57,839.42 \$164,544.02 \$548.48 \$163,717.84 89 \$163,717.84 \$828.93 \$162,888.92 \$58,385.14 \$545.73 90 \$162,888.92 \$542.96 \$831.69 \$162,057.22 \$58,928.11 91 \$162,057.22 \$540.19 \$834.46 \$161,222.76 \$59,468.30 92 \$161,222.76 \$537.41 \$837.25 \$160,385.52 \$60,005.71 93 \$160,385.52 \$534.62 \$840.04 \$159,545.48 \$60,540.33 94 \$159,545.48 \$531.82 \$842.84 \$158,702.64 \$61,072.14 95 \$158,702.64 \$529.01 \$845.65 \$157,857.00 \$61,601.15 96 \$526.19 \$848.46 \$157,008.53 \$62,127.34 \$157,857.00 97 \$157,008.53 \$523.36 \$851.29 \$156,157.24 \$62,650.70 98 \$156,157.24 \$520.52 \$854.13 \$155,303.11 \$63,171.23 99 \$155,303.11 \$517.68 \$856.98 \$154,446.13 \$63,688.91 100 \$154,446.13 \$514.82 \$859.83 \$153,586.30 \$64,203.73 101 \$64,715.68 \$153,586.30 \$511.95 \$862.70 \$152,723.60 102 \$865.58 \$151,858.02 \$152,723.60 \$509.08 \$65,224.76 103 \$65,730.95 \$151,858.02 \$506.19 \$868.46 \$150,989.56 104 \$871.36 \$150,118.21 \$66,234.25 \$150,989.56 \$503.30 105 \$874.26 \$149,243.95 \$150,118.21 \$500.39 \$66,734.65

0.006059803

\$1,374.65

Capital Cost Recovery Factor - A =

	+ - / -		· · · · · ·	· /	+ / -
111	\$144,828.74	\$482.76	\$891.89	\$143,936.85	\$69,675.47
112	\$143,936.85	\$479.79	\$894.86	\$143,041.98	\$70,155.26
113	\$143,041.98	\$476.81	\$897.85	\$142,144.14	\$70,632.07
114	\$142,144.14	\$473.81	\$900.84	\$141,243.29	\$71,105.88
115	\$141,243.29	\$470.81	\$903.84	\$140,339.45	\$71,576.69
116	\$140,339.45	\$467.80	\$906.86	\$139,432.60	\$72,044.49
117	\$139,432.60	\$464.78	\$909.88	\$138,522.72	\$72,509.26
118	\$138,522.72	\$461.74	\$912.91	\$137,609.80	\$72,971.01
119	\$137,609.80	\$458.70	\$915.95	\$136,693.85	\$73,429.71
120	\$136,693.85	\$455.65	\$919.01	\$135,774.84	\$73,885.35
121	\$135,774.84	\$452.58	\$922.07	\$134,852.77	\$74,337.94
122	\$134,852.77	\$449.51	\$925.15	\$133,927.62	\$74,787.44

\$877.17

\$880.10

\$883.03

\$885.98

\$888.93

\$148,366.77

\$147,486.68

\$146,603.64

\$145,717.67

\$144,828.74

\$67,232.13

\$67,726.68

\$68,218.30 \$68,706.98

\$69,192.71

\$497.48

\$494.56

\$491.62

\$488.68

\$485.73

169

170

171

Estimated Capital Cost:	\$29,036,580
Number of Benefitting Properties:	128
Cost per Connection:	\$226 <i>,</i> 848.28

Loan Amount	Interest Rate	Term in Years	Monthly Payment		Monthly Cost -P =
\$226,848.00	4.00%	20	\$1,374.65		
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest
123	\$133,927.62	\$446.43	\$928.23	\$132,999.40	\$75,233.87
124	\$132,999.40	\$443.33	\$931.32	\$132,068.07	\$75,677.20
125	\$132,068.07	\$440.23	\$934.43	\$131,133.65	\$76,117.43
126	\$131,133.65	\$437.11	\$937.54	\$130,196.10	\$76,554.54
127	\$130,196.10	\$433.99	\$940.67	\$129,255.44	\$76,988.53
128	\$129,255.44	\$430.85	\$943.80	\$128,311.63	\$77,419.38
129	\$128,311.63	\$427.71	\$946.95	\$127,364.68	\$77,847.08
130	\$127,364.68	\$424.55	\$950.11	\$126,414.58	\$78,271.63
131	\$126,414.58	\$421.38	\$953.27	\$125,461.31	\$78,693.01
132	\$125,461.31	\$418.20	\$956.45	\$124,504.86	\$79,111.22
133	\$124,504.86	\$415.02	\$959.64	\$123,545.22	\$79,526.24
134	\$123,545.22	\$411.82	\$962.84	\$122,582.38	\$79,938.05
135	\$122,582.38	\$408.61	\$966.05	\$121,616.34	\$80,346.66
136	\$121,616.34	\$405.39	\$969.27	\$120,647.07	\$80,752.05
137	\$120,647.07	\$402.16	\$972.50	\$119,674.57	\$81,154.21
138	\$119,674.57	\$398.92	\$975.74	\$118,698.83	\$81,553.12
139	\$118,698.83	\$395.66	\$978.99	\$117,719.84	\$81,948.78
140	\$117,719.84	\$392.40	\$982.25	\$116,737.59	\$82,341.18
141	\$116,737.59	\$389.13	\$985.53	\$115,752.06	\$82,730.31
142	\$115,752.06	\$385.84	\$988.81	\$114,763.24	\$83,116.15
143	\$114,763.24	\$382.54	\$992.11	\$113,771.13	\$83,498.69
143	\$113,771.13	\$379.24	\$995.42	\$112,775.72	\$83,877.93
145	\$112,775.72	\$375.92	\$998.74	\$111,776.98	\$84,253.85
146	\$111,776.98	\$372.59	\$990.74	\$110,774.92	\$84,626.44
140	\$110,774.92	\$369.25	\$1,005.40	\$109,769.51	\$84,995.69
148	\$109,769.51	\$365.90	\$1,008.76	\$108,760.76	\$85,361.59
149	\$108,760.76	\$362.54	\$1,008.70	\$107,748.64	\$85,724.12
149	\$107,748.64	\$359.16	\$1,015.49	\$106,733.15	\$86,083.28
150	\$106,733.15	\$355.78	\$1,018.88	\$105,714.27	\$86,439.06
151	\$105,714.27	\$352.38	\$1,022.27	\$105,714.27 \$104,692.00	\$86,791.44
152	\$105,714.27 \$104,692.00	\$352.38 \$348.97		\$104,692.00 \$103,666.31	\$86,791.44 \$87,140.42
153			\$1,025.68 \$1,029.10	\$103,666.31	
	\$103,666.31 \$102,637,21	\$345.55 \$342.12	\$1,029.10 \$1,032.53		\$87,485.97 \$87,828.00
155	\$102,637.21 \$101,604,68	\$342.12	\$1,032.53 \$1,035.07	\$101,604.68 \$100,568.71	\$87,828.09 \$88,166,78
156 157	\$101,604.68 \$100,568,71	\$338.68 \$335.23	\$1,035.97 \$1,039,43		\$88,166.78 \$88,502.01
157	\$100,568.71 \$00,520,20	\$335.23	\$1,039.43 \$1,042.80	\$99,529.29 \$08,486,40	\$88,502.01 \$88,822,77
158	\$99,529.29 \$08,486,40	\$331.76	\$1,042.89 \$1,046.27	\$98,486.40 \$97,440.02	\$88,833.77 \$80,162,06
159	\$98,486.40 \$97,440.02	\$328.29	\$1,046.37 \$1,040.85	\$97,440.03 \$06,200,18	\$89,162.06 \$80,486,86
160	\$97,440.03 \$06,200,48	\$324.80	\$1,049.85	\$96,390.18 \$95,336,83	\$89,486.86
161	\$96,390.18 \$95,336,83	\$321.30 \$317.70	\$1,053.35	\$95,336.82	\$89,808.16 \$00,125,05
162	\$95,336.82	\$317.79	\$1,056.86	\$94,279.96 \$92,240,57	\$90,125.95
163	\$94,279.96 \$92,240,57	\$314.27 \$210.72	\$1,060.39	\$93,219.57 \$02,455,65	\$90,440.21 \$90,750.05
164	\$93,219.57 \$92,455,65	\$310.73	\$1,063.92	\$92,155.65	\$90,750.95
165	\$92,155.65	\$307.19	\$1,067.47	\$91,088.18 \$00,017,15	\$91,058.13 \$01,261,76
166	\$91,088.18 \$00,047,45	\$303.63	\$1,071.03	\$90,017.15	\$91,361.76 \$01,001,80
167	\$90,017.15	\$300.06	\$1,074.60	\$88,942.56	\$91,661.82
168	\$88,942.56	\$296.48	\$1,078.18 \$1,084.77	\$87,864.38 \$86,782,60	\$91,958.29 \$92,254,47

Capital Cost Recovery Factor - A =

0.006059803

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172	\$84,608.23	\$282.03	\$1,092.63	\$83,515.60	\$93,108.13
173	\$83,515.60	\$278.39	\$1,096.27	\$82,419.33	\$93,386.52
174	\$82,419.33	\$274.73	\$1,099.92	\$81,319.41	\$93,661.25
175	\$81,319.41	\$271.06	\$1,103.59	\$80,215.82	\$93,932.31
176	\$80,215.82	\$267.39	\$1,107.27	\$79,108.55	\$94,199.70
177	\$79,108.55	\$263.70	\$1,110.96	\$77,997.59	\$94,463.40
178	\$77,997.59	\$259.99	\$1,114.66	\$76,882.93	\$94,723.39
179	\$76,882.93	\$256.28	\$1,118.38	\$75,764.55	\$94,979.66
180	\$75,764.55	\$252.55	\$1,122.11	\$74,642.45	\$95,232.21
181	\$74,642.45	\$248.81	\$1,125.85	\$73,516.60	\$95,481.02
182	\$73,516.60	\$245.06	\$1,129.60	\$72,387.00	\$95,726.08
183	\$72,387.00	\$241.29	\$1,133.36	\$71,253.64	\$95,967.37

\$1,081.77

\$1,085.38

\$1,089.00

\$86,782.60

\$85,697.22

\$84.608.23

\$92,251.17 \$92,540.45

\$92,826.11

\$292.88

\$289.28

\$285.66

\$87,864.38

\$86,782.60

\$85.697.22

Estimated Capital Cost:	\$29,036,580
Number of Benefitting Properties:	128
Cost per Connection:	\$226,848.28

Capital Cost Recovery Factor - A = 0.0

0.006059803 \$1,374.65

				Capital Cos	Recovery Factor - A =
Loan Amount	Interest Rate	Term in Years	Monthly Payment		Monthly Cost -P =
\$226,848.00	4.00%	20	\$1,374.65		
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest
184	\$71,253.64	\$237.51	\$1,137.14	\$70,116.49	\$96,204.88
185	\$70,116.49	\$233.72	\$1,140.93	\$68,975.56	\$96,438.60
186	\$68,975.56	\$229.92	\$1,144.74	\$67,830.83	\$96,668.52
187	\$67,830.83	\$226.10	\$1,148.55	\$66,682.27	\$96,894.62
188	\$66,682.27	\$222.27	\$1,152.38	\$65,529.89	\$97,116.90
189	\$65,529.89	\$218.43	\$1,156.22	\$64,373.67	\$97,335.33
190	\$64,373.67	\$214.58	\$1,160.08	\$63,213.60	\$97,549.91
191	\$63,213.60	\$210.71	\$1,163.94	\$62,049.66	\$97,760.62
192	\$62,049.66	\$206.83	\$1,167.82	\$60,881.83	\$97,967.45
193	\$60,881.83	\$202.94	\$1,171.71	\$59,710.12	\$98,170.39
194	\$59,710.12	\$199.03	\$1,175.62	\$58,534.50	\$98,369.42
195	\$58,534.50	\$195.11	\$1,179.54	\$57,354.96	\$98,564.54
196	\$57,354.96	\$191.18	\$1,183.47	\$56,171.49	\$98,755.72
197	\$56,171.49	\$187.24	\$1,187.42	\$54,984.07	\$98,942.96
198	\$54,984.07	\$183.28	\$1,191.37	\$53,792.70	\$99,126.24
199	\$53,792.70	\$179.31	\$1,195.35	\$52,597.35	\$99,305.55
200	\$52,597.35	\$175.32	\$1,199.33	\$51,398.02	\$99,480.87
201	\$51,398.02	\$171.33	\$1,203.33	\$50,194.70	\$99,652.20
202	\$50,194.70	\$167.32	\$1,207.34	\$48,987.36	\$99,819.52
203	\$48,987.36	\$163.29	\$1,211.36	\$47,775.99	\$99,982.81
204	\$47,775.99	\$159.25	\$1,215.40	\$46,560.59	\$100,142.06
205	\$46,560.59	\$155.20	\$1,219.45	\$45,341.14	\$100,297.26
206	\$45,341.14	\$151.14	\$1,223.52	\$44,117.62	\$100,448.40
207	\$44,117.62	\$147.06	\$1,227.60	\$42,890.03	\$100,595.46
208	\$42,890.03	\$142.97	\$1,231.69	\$41,658.34	\$100,738.43
209	\$41,658.34	\$138.86	\$1,235.79	\$40,422.55	\$100,877.29
210	\$40,422.55	\$134.74	\$1,239.91	\$39,182.64	\$101,012.03
211	\$39,182.64	\$130.61	\$1,244.05	\$37,938.59	\$101,142.64
212	\$37,938.59	\$126.46	\$1,248.19	\$36,690.40	\$101,269.10
213	\$36,690.40	\$122.30	\$1,252.35	\$35,438.04	\$101,391.40
214	\$35,438.04	\$118.13	\$1,256.53	\$34,181.52	\$101,509.53
215	\$34,181.52	\$113.94	\$1,260.72	\$32,920.80	\$101,623.47
216	\$32,920.80	\$109.74	\$1,264.92	\$31,655.88	\$101,733.20
217	\$31,655.88	\$105.52	\$1,269.13	\$30,386.75	\$101,838.72
218	\$30,386.75	\$101.29	\$1,273.37	\$29,113.38	\$101,940.01
219	\$29,113.38	\$97.04	\$1,277.61	\$27,835.77	\$102,037.06
220	\$27,835.77	\$92.79	\$1,281.87	\$26,553.91	\$102,129.84
221	\$26,553.91	\$88.51	\$1,286.14	\$25,267.76	\$102,218.35
222	\$25,267.76	\$84.23	\$1,290.43	\$23,977.34	\$102,302.58
223	\$23,977.34	\$79.92	\$1,294.73	\$22,682.61	\$102,382.51
224	\$22,682.61	\$75.61	\$1,299.05	\$21,383.56	\$102,458.11
225	\$21,383.56	\$71.28	\$1,303.38	\$20,080.18	\$102,529.39
226	\$20,080.18	\$66.93	\$1,307.72	\$18,772.46	\$102,596.33
227	\$18,772.46	\$62.57	\$1,312.08	\$17,460.38	\$102,658.90
228	\$17,460.38	\$58.20	\$1,316.45	\$16,143.93	\$102,717.10
229	\$16,143.93	\$53.81	\$1,320.84	\$14,823.09	\$102,770.92
230	\$14,823.09	\$49.41	\$1,325.24	\$13,497.85	\$102,820.33
231	\$13,497.85	\$44.99	\$1,329.66	\$12,168.19	\$102,865.32
232	\$12,168.19	\$40.56	\$1,334.09	\$10,834.09	\$102,905.88
202	φ12,100.10		φ1,00 1 .00	\$10,00 1 .00	¢102,000.00

	+ ,	+	+ .,	+	+ ,
233	\$10,834.09	\$36.11	\$1,338.54	\$9,495.55	\$102,941.99
234	\$9,495.55	\$31.65	\$1,343.00	\$8,152.55	\$102,973.64
235	\$8,152.55	\$27.18	\$1,347.48	\$6,805.07	\$103,000.82
236	\$6,805.07	\$22.68	\$1,351.97	\$5,453.10	\$103,023.50
237	\$5,453.10	\$18.18	\$1,356.48	\$4,096.62	\$103,041.68
238	\$4,096.62	\$13.66	\$1,361.00	\$2,735.62	\$103,055.34
239	\$2,735.62	\$9.12	\$1,365.54	\$1,370.09	\$103,064.45
240	\$1,370.09	\$4.57	\$1,370.09	\$0.00	\$103,069.02

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Estimated Capital Cost:	\$11,683,080
Number of Benefitting Properties:	128
Cost per Connection:	\$91,274.06

st per connection:			\$91,274.06				
				Capital Cost	Recovery Factor - A =		
.oan Amount	Interest Rate	Term in Years	Monthly Payment		Monthly Cost -P =		
\$91,274.00	4.00%	10	\$924.10				
Manth	Starting Delance	Interest	Dringing	Ending Delence	Total Interact		
Month	Starting Balance	Interest	Principal	Ending Balance	Total Interest		
1	\$91,274.00	\$304.25	\$619.86	\$90,654.14	\$304.25		
2	\$90,654.14	\$302.18	\$621.92	\$90,032.22	\$606.43		
3	\$90,032.22	\$300.11	\$624.00	\$89,408.22	\$906.53		
4	\$89,408.22	\$298.03	\$626.08	\$88,782.14	\$1,204.56		
5	\$88,782.14	\$295.94	\$628.16	\$88,153.98	\$1,500.50		
6	\$88,153.98	\$293.85	\$630.26	\$87,523.72	\$1,794.35		
7	\$87,523.72	\$291.75	\$632.36	\$86,891.36	\$2,086.09		
8	\$86,891.36	\$289.64	\$634.47	\$86,256.89	\$2,375.73		
9	\$86,256.89	\$287.52	\$636.58	\$85,620.31	\$2,663.26		
10	\$85,620.31	\$285.40	\$638.70	\$84,981.61	\$2,948.66		
11	\$84,981.61	\$283.27	\$640.83	\$84,340.78	\$3,231.93		
12	\$84,340.78	\$281.14	\$642.97	\$83,697.81	\$3,513.06		
13	\$83,697.81	\$278.99	\$645.11	\$83,052.69	\$3,792.06		
14	\$83,052.69	\$276.84	\$647.26	\$82,405.43	\$4,068.90		
15	\$82,405.43	\$274.68	\$649.42	\$81,756.01	\$4,343.58		
16	\$81,756.01	\$272.52	\$651.58	\$81,104.43	\$4,616.10		
17	\$81,104.43	\$270.35	\$653.76	\$80,450.67	\$4,886.45		
18	\$80,450.67	\$268.17	\$655.94	\$79,794.73	\$5,154.62		
19	\$79,794.73	\$265.98	\$658.12	\$79,136.61	\$5,420.60		
20	\$79,136.61	\$263.79	\$660.32	\$78,476.30	\$5,684.39		
21	\$78,476.30	\$261.59	\$662.52	\$77,813.78	\$5,945.98		
22	\$77,813.78	\$259.38	\$664.73	\$77,149.05	\$6,205.36		
23	\$77,149.05	\$257.16	\$666.94	\$76,482.11	\$6,462.52		
24	\$76,482.11	\$254.94	\$669.16	\$75,812.95	\$6,717.46		
25	\$75,812.95	\$252.71	\$671.40	\$75,141.55	\$6,970.17		
26	\$75,141.55	\$250.47	\$673.63	\$74,467.92	\$7,220.64		
27	\$74,467.92	\$248.23	\$675.88	\$73,792.04	\$7,468.87		
28	\$73,792.04	\$245.97	\$678.13	\$73,113.91	\$7,714.84		
29	\$73,113.91	\$243.71	\$680.39	\$72,433.52			
29 30	\$72,433.52	\$241.45	\$682.66	\$72,433.52 \$71,750.86	\$7,958.56 \$8,200.00		
30 31				. ,	\$8,200.00 \$8,430.17		
	\$71,750.86 \$71,065,02	\$239.17 \$226.80	\$684.94 \$687.22	\$71,065.92 \$70,378,70	\$8,439.17 \$8,676.06		
32	\$71,065.92 \$70,378,70	\$236.89 \$234.60	\$687.22	\$70,378.70 \$60,680,10	\$8,676.06 \$8,010.65		
33	\$70,378.70	\$234.60	\$689.51 \$601.81	\$69,689.19 \$68,007,20	\$8,910.65		
34 25	\$69,689.19 \$69,007.20	\$232.30	\$691.81	\$68,997.39 \$68,202.27	\$9,142.95		
35	\$68,997.39	\$229.99	\$694.11	\$68,303.27	\$9,372.94		
36	\$68,303.27	\$227.68	\$696.43	\$67,606.85	\$9,600.62		
37	\$67,606.85	\$225.36	\$698.75	\$66,908.10	\$9,825.98		
38	\$66,908.10	\$223.03	\$701.08	\$66,207.02	\$10,049.00		
39	\$66,207.02	\$220.69	\$703.41	\$65,503.60	\$10,269.69		
40	\$65,503.60	\$218.35	\$705.76	\$64,797.84	\$10,488.04		
41	\$64,797.84	\$215.99	\$708.11	\$64,089.73	\$10,704.03		
42	\$64,089.73	\$213.63	\$710.47	\$63,379.26	\$10,917.66		
43	\$63,379.26	\$211.26	\$712.84	\$62,666.42	\$11,128.93		
44	\$62,666.42	\$208.89	\$715.22	\$61,951.20	\$11,337.82		
45	\$61,951.20	\$206.50	\$717.60	\$61,233.60	\$11,544.32		
46	\$61,233.60	\$204.11	\$719.99	\$60,513.61	\$11,748.43		
47	\$60,513.61	\$201.71	\$722.39	\$59,791.22	\$11,950.14		
48	\$50,701,22	\$100.30	\$724.80	\$50,066,41	¢12 1/0 /5		

0.010124514 \$924.10

	+,	+	• • - • •	+	+
50	\$58,339.20	\$194.46	\$729.64	\$57,609.56	\$12,540.80
51	\$57,609.56	\$192.03	\$732.07	\$56,877.48	\$12,732.83
52	\$56,877.48	\$189.59	\$734.51	\$56,142.97	\$12,922.42
53	\$56,142.97	\$187.14	\$736.96	\$55,406.01	\$13,109.57
54	\$55,406.01	\$184.69	\$739.42	\$54,666.59	\$13,294.25
55	\$54,666.59	\$182.22	\$741.88	\$53,924.71	\$13,476.48
56	\$53,924.71	\$179.75	\$744.36	\$53,180.35	\$13,656.23
57	\$53,180.35	\$177.27	\$746.84	\$52,433.52	\$13,833.49
58	\$52,433.52	\$174.78	\$749.33	\$51,684.19	\$14,008.27
59	\$51,684.19	\$172.28	\$751.82	\$50,932.36	\$14,180.55
60	\$50,932.36	\$169.77	\$754.33	\$50,178.03	\$14,350.33
61	\$50,178.03	\$167.26	\$756.84	\$49,421.19	\$14,517.59

\$724.80

\$727.22

\$59,066.41

\$58,339.20

\$12,149.45

\$12,346.34

\$199.30

\$196.89

\$59,791.22

\$59,066.41

109

\$10,852.68

Estimated Capital Cost:	\$11,683,080
Number of Benefitting Properties:	128
Cost per Connection:	\$91,274.06

per Connection:			\$91,274.06			
	• • • • •	-		Capital Cost Recovery Factor - A = Monthly Cost -P =		0.010124 \$924.10
Loan Amount	Interest Rate	Term in Years	Monthly Payment			ψ924.Τ
\$91,274.00	4.00%	10	\$924.10			
Month	Starting Balance	Interest	Principal	Ending Balance	Total Interest	
62	\$49,421.19	\$164.74	\$759.37	\$48,661.82	\$14,682.32	
63	\$48,661.82	\$162.21	\$761.90	\$47,899.92	\$14,844.53	
64	\$47,899.92	\$159.67	\$764.44	\$47,135.48	\$15,004.20	
65	\$47,135.48	\$157.12	\$766.99	\$46,368.50	\$15,161.31	
66	\$46,368.50	\$154.56	\$769.54	\$45,598.95	\$15,315.88	
67	\$45,598.95	\$152.00	\$772.11	\$44,826.85	\$15,467.87	
68	\$44,826.85	\$149.42	\$774.68	\$44,052.16	\$15,617.30	
69	\$44,052.16	\$146.84	\$777.26	\$43,274.90	\$15,764.14	
70 71	\$43,274.90	\$144.25 \$141.65	\$779.86 \$782.45	\$42,495.04	\$15,908.39 \$16,050,04	
	\$42,495.04	\$141.65	\$782.45	\$41,712.59	\$16,050.04	
72	\$41,712.59	\$139.04	\$785.06	\$40,927.53	\$16,189.08	
73	\$40,927.53	\$136.43	\$787.68	\$40,139.85	\$16,325.50	
74	\$40,139.85	\$133.80	\$790.31	\$39,349.54	\$16,459.30	
75	\$39,349.54	\$131.17	\$792.94	\$38,556.60	\$16,590.47	
76	\$38,556.60	\$128.52	\$795.58	\$37,761.02	\$16,718.99	
77	\$37,761.02	\$125.87	\$798.23	\$36,962.78	\$16,844.86	
78	\$36,962.78	\$123.21	\$800.90	\$36,161.89	\$16,968.07	
79	\$36,161.89	\$120.54	\$803.57	\$35,358.32	\$17,088.61	
80	\$35,358.32	\$117.86	\$806.24	\$34,552.08	\$17,206.47	
81	\$34,552.08	\$115.17	\$808.93	\$33,743.15	\$17,321.64	
82	\$33,743.15	\$112.48	\$811.63	\$32,931.52	\$17,434.12	
83	\$32,931.52	\$109.77	\$814.33	\$32,117.19	\$17,543.89	
84	\$32,117.19	\$107.06	\$817.05	\$31,300.14	\$17,650.95	
85	\$31,300.14	\$104.33	\$819.77	\$30,480.37	\$17,755.28	
86	\$30,480.37	\$101.60	\$822.50	\$29,657.87	\$17,856.88	
87	\$29,657.87	\$98.86	\$825.25	\$28,832.62	\$17,955.74	
88	\$28,832.62	\$96.11	\$828.00	\$28,004.62	\$18,051.85	
89	\$28,004.62	\$93.35	\$830.76	\$27,173.87	\$18,145.20	
90	\$27,173.87	\$90.58	\$833.53	\$26,340.34	\$18,235.78	
91	\$26,340.34	\$87.80	\$836.30	\$25,504.04	\$18,323.58	
92	\$25,504.04	\$85.01	\$839.09	\$24,664.95	\$18,408.60	
93	\$24,664.95	\$82.22	\$841.89	\$23,823.06	\$18,490.81	
94	\$23,823.06	\$79.41	\$844.69	\$22,978.36	\$18,570.22	
95	\$22,978.36	\$76.59	\$847.51	\$22,130.85	\$18,646.82	
96	\$22,130.85	\$73.77	\$850.34	\$21,280.52	\$18,720.59	
97	\$21,280.52	\$70.94	\$853.17	\$20,427.35	\$18,791.52	
98	\$20,427.35	\$68.09	\$856.01	\$19,571.34	\$18,859.61	
99	\$19,571.34	\$65.24	\$858.87	\$18,712.47	\$18,924.85	
100	\$18,712.47	\$62.37	\$861.73	\$17,850.74	\$18,987.23	
101	\$17,850.74	\$59.50	\$864.60	\$16,986.14	\$19,046.73	
102	\$16,986.14	\$56.62	\$867.48	\$16,118.65	\$19,103.35	
103	\$16,118.65	\$53.73	\$870.38	\$15,248.28	\$19,157.08	
104	\$15,248.28	\$50.83	\$873.28	\$14,375.00	\$19,207.90	
105	\$14,375.00	\$47.92	\$876.19	\$13,498.81	\$19,255.82	
106	\$13,498.81	\$45.00	\$879.11	\$12,619.70	\$19,300.82	
107	\$12,619.70	\$42.07	\$882.04	\$11,737.66	\$19,342.88	
108	\$11,737.66	\$39.13	\$884.98	\$10,852.68	\$19,382.01	
100	\$10,852,68	\$36 18	\$887.03	\$0,064,75	¢10/18/18	

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110	¢0.064.75	¢22.22	00 000	¢0.072.96	¢10 451 40
110	\$9,964.75	\$33.22	\$890.89	\$9,073.86	\$19,451.40
111	\$9,073.86	\$30.25	\$893.86	\$8,180.01	\$19,481.65
112	\$8,180.01	\$27.27	\$896.84	\$7,283.17	\$19,508.91
113	\$7,283.17	\$24.28	\$899.83	\$6,383.34	\$19,533.19
114	\$6,383.34	\$21.28	\$902.83	\$5,480.51	\$19,554.47
115	\$5,480.51	\$18.27	\$905.84	\$4,574.68	\$19,572.74
116	\$4,574.68	\$15.25	\$908.86	\$3,665.82	\$19,587.99
117	\$3,665.82	\$12.22	\$911.89	\$2,753.93	\$19,600.20
118	\$2,753.93	\$9.18	\$914.93	\$1,839.01	\$19,609.38
119	\$1,839.01	\$6.13	\$917.97	\$921.03	\$19,615.51
120	\$921.03	\$3.07	\$921.03	\$0.00	\$19,618.58

\$887.93

\$36.18

\$9,964.75

\$19,418.18

48

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Estimated Capital Cost:	\$11,683,080
Number of Benefitting Properties:	128
Cost per Connection:	\$91,274.06

ber Connection:			\$91,274.00		
				Capital Cost Recovery Factor - A =	
_oan Amount	Interest Rate	Term in Years	Monthly Payment		Monthly Cost -P =
\$91,274.00	4.00%	15	\$675.14		
Mauth	Ctortine Delense	Interest	Dringing	FadingDolones	Total Interest
Month	StartingBalance	Interest	Principal	EndingBalance	Total Interest
1	\$91,274.00	\$304.25	\$370.90	\$90,903.10	\$304.25
2	\$90,903.10	\$303.01	\$372.13	\$90,530.97	\$607.26
3	\$90,530.97	\$301.77	\$373.37	\$90,157.60	\$909.03
4	\$90,157.60	\$300.53	\$374.62	\$89,782.98	\$1,209.55
5	\$89,782.98	\$299.28	\$375.87	\$89,407.12	\$1,508.83
6	\$89,407.12	\$298.02	\$377.12	\$89,030.00	\$1,806.85
7	\$89,030.00	\$296.77	\$378.38	\$88,651.62	\$2,103.62
8	\$88,651.62	\$295.51	\$379.64	\$88,271.98	\$2,399.12
9	\$88,271.98	\$294.24	\$380.90	\$87,891.08	\$2,693.36
10	\$87,891.08	\$292.97	\$382.17	\$87,508.91	\$2,986.33
11	\$87,508.91	\$291.70	\$383.45	\$87,125.46	\$3,278.03
12	\$87,125.46	\$290.42	\$384.72	\$86,740.74	\$3,568.45
13	\$86,740.74	\$289.14	\$386.01	\$86,354.73	\$3,857.59
14	\$86,354.73	\$287.85	\$387.29	\$85,967.44	\$4,145.43
15	\$85,967.44	\$286.56	\$388.58	\$85,578.85	\$4,431.99
16	\$85,578.85	\$285.26	\$389.88	\$85,188.97	\$4,717.26
17	\$85,188.97	\$283.96	\$391.18	\$84,797.79	\$5,001.22
18	\$84,797.79	\$282.66	\$392.48	\$84,405.31	\$5,283.88
19	\$84,405.31	\$281.35	\$393.79	\$84,011.52	\$5,565.23
20	\$84,011.52	\$280.04	\$395.10	\$83,616.41	\$5,845.27
21	\$83,616.41	\$278.72	\$396.42	\$83,219.99	\$6,123.99
22	\$83,219.99	\$277.40	\$397.74	\$82,822.25	\$6,401.39
23	\$82,822.25	\$276.07	\$399.07	\$82,423.18	\$6,677.46
24	\$82,423.18	\$274.74	\$400.40	\$82,022.78	\$6,952.21
25	\$82,022.78	\$273.41	\$401.73	\$81,621.05	\$7,225.62
26	\$81,621.05	\$272.07	\$403.07	\$81,217.97	\$7,497.69
27	\$81,217.97	\$270.73	\$404.42	\$80,813.56	\$7,768.41
28	\$80,813.56	\$269.38	\$405.76	\$80,407.79	\$8,037.79
29	\$80,407.79	\$268.03	\$407.12	\$80,000.68	\$8,305.82
30	\$80,000.68	\$266.67	\$408.47	\$79,592.20	\$8,572.49
30					
31	\$79,592.20 \$70,182,37	\$265.31 \$263.04	\$409.84 \$411.20	\$79,182.37 \$78,771,17	\$8,837.79 \$9,101,73
32	\$79,182.37 \$78,771,17	\$263.94 \$262.57	\$411.20 \$412.57	\$78,771.17 \$78,358,50	\$9,101.73 \$9,364,31
33 34	\$78,771.17 \$78,358,50	\$262.57 \$261.20	\$412.57 \$413.95	\$78,358.59 \$77,044,65	\$9,364.31 \$9,625,50
	\$78,358.59 \$77,944.65	\$261.20 \$250.82	\$413.95 \$415.33	\$77,944.65 \$77,520,32	\$9,625.50 \$9,885.32
35 26		\$259.82 \$258.42	\$415.33 \$416.71	\$77,529.32 \$77,112,61	\$9,885.32 \$10,142,75
36	\$77,529.32	\$258.43	\$416.71	\$77,112.61	\$10,143.75
37	\$77,112.61	\$257.04	\$418.10	\$76,694.51	\$10,400.79
38	\$76,694.51 \$76,075,01	\$255.65	\$419.49	\$76,275.01 \$75,854,42	\$10,656.44
39	\$76,275.01	\$254.25	\$420.89	\$75,854.12	\$10,910.69
40	\$75,854.12	\$252.85	\$422.30	\$75,431.82	\$11,163.53
41	\$75,431.82	\$251.44	\$423.70	\$75,008.12	\$11,414.97
42	\$75,008.12	\$250.03	\$425.12	\$74,583.01	\$11,665.00
43	\$74,583.01	\$248.61	\$426.53	\$74,156.47	\$11,913.61
44	\$74,156.47	\$247.19	\$427.95	\$73,728.52	\$12,160.80
45	\$73,728.52	\$245.76	\$429.38	\$73,299.14	\$12,406.56
46	\$73,299.14	\$244.33	\$430.81	\$72,868.32	\$12,650.89
47	\$72,868.32	\$242.89	\$432.25	\$72,436.08	\$12,893.79
10	CT0 40C 00	CO11 1E	¢400.00	CTO 000 20	C12 125 04

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\$13,135.24

\$13,375.25

	+ ,	+	*	+ · · , · ·	+ ,
50	\$71,567.25	\$238.56	\$436.59	\$71,130.67	\$13,613.80
51	\$71,130.67	\$237.10	\$438.04	\$70,692.63	\$13,850.91
52	\$70,692.63	\$235.64	\$439.50	\$70,253.13	\$14,086.55
53	\$70,253.13	\$234.18	\$440.97	\$69,812.16	\$14,320.73
54	\$69,812.16	\$232.71	\$442.44	\$69,369.72	\$14,553.43
55	\$69,369.72	\$231.23	\$443.91	\$68,925.81	\$14,784.67
56	\$68,925.81	\$229.75	\$445.39	\$68,480.42	\$15,014.42
57	\$68,480.42	\$228.27	\$446.87	\$68,033.55	\$15,242.69
58	\$68,033.55	\$226.78	\$448.36	\$67,585.19	\$15,469.47
59	\$67,585.19	\$225.28	\$449.86	\$67,135.33	\$15,694.75
60	\$67,135.33	\$223.78	\$451.36	\$66,683.97	\$15,918.53
61	\$66,683.97	\$222.28	\$452.86	\$66,231.11	\$16,140.81

\$433.69

\$435.13

\$72,002.39

\$71,567.25

\$241.45

\$240.01

\$72,436.08

\$72.002.39

109

110

Estimated Capital Cost:	\$11,683,080
Number of Benefitting Properties:	128
Cost per Connection:	\$91,274.06

cost per connection:			\$91,274.06			
				Capital Cost Recovery Factor - A =		0.007396879
Loan Amount	Interest Rate	Term in Years	Monthly Payment		Monthly Cost -P =	\$675.14
\$91,274.00	4.00%	15	\$675.14			
Month	StartingBalance	Interest	Principal	EndingBalance	Total Interest	
62	\$66,231.11	\$220.77	\$454.37	\$65,776.73	\$16,361.58	
63	\$65,776.73	\$219.26	\$455.89	\$65,320.85	\$16,580.84	
64	\$65,320.85	\$217.74	\$457.41	\$64,863.44	\$16,798.58	
65	\$64,863.44	\$216.21	\$458.93	\$64,404.51	\$17,014.79	
66	\$64,404.51	\$214.68	\$460.46	\$63,944.05	\$17,229.47	
67	\$63,944.05	\$213.15	\$462.00	\$63,482.05	\$17,442.62	
68	\$63,482.05	\$211.61	\$463.54	\$63,018.52	\$17,654.22	
69	\$63,018.52	\$210.06	\$465.08	\$62,553.43	\$17,864.28	
70	\$62,553.43	\$208.51	\$466.63	\$62,086.80	\$18,072.80	
71	\$62,086.80	\$206.96	\$468.19	\$61,618.62	\$18,279.75	
72	\$61,618.62	\$205.40	\$469.75	\$61,148.87	\$18,485.15	
73	\$61,148.87	\$203.83	\$471.31	\$60,677.56	\$18,688.98	
74	\$60,677.56	\$202.26	\$472.88	\$60,204.67	\$18,891.24	
75	\$60,204.67	\$200.68	\$474.46	\$59,730.21	\$19,091.92	
76	\$59,730.21	\$199.10	\$476.04	\$59,254.17	\$19,291.02	
77	\$59,254.17	\$197.51	\$477.63	\$58,776.54	\$19,488.53	
78	\$58,776.54	\$195.92	\$479.22	\$58,297.32	\$19,684.45	
79	\$58,297.32	\$194.32	\$480.82	\$57,816.50	\$19,878.78	
80	\$57,816.50	\$192.72	\$482.42	\$57,334.08	\$20,071.50	
81	\$57,334.08	\$191.11	\$484.03	\$56,850.05	\$20,262.61	
82	\$56,850.05	\$189.50	\$485.64	\$56,364.41	\$20,452.11	
83	\$56,364.41	\$187.88	\$487.26	\$55,877.15	\$20,640.00	
84	\$55,877.15	\$186.26	\$488.89	\$55,388.26	\$20,826.25	
85	\$55,388.26	\$184.63	\$490.52	\$54,897.75	\$21,010.88	
86	\$54,897.75	\$182.99	\$492.15	\$54,405.60	\$21,193.87	
87	\$54,405.60	\$181.35	\$493.79	\$53,911.80	\$21,375.22	
88	\$53,911.80	\$179.71	\$495.44	\$53,416.37	\$21,554.93	
89	\$53,416.37	\$178.05	\$497.09	\$52,919.28	\$21,732.98	
90	\$52,919.28	\$176.40	\$498.75	\$52,420.53	\$21,909.38	
91	\$52,420.53	\$174.74	\$500.41	\$51,920.13	\$22,084.12	
92	\$51,920.13	\$173.07	\$502.08	\$51,418.05	\$22,257.18	
93	\$51,418.05	\$171.39	\$503.75	\$50,914.30	\$22,428.58	
94	\$50,914.30	\$169.71	\$505.43	\$50,408.87	\$22,598.29	
95	\$50,408.87	\$168.03	\$507.11	\$49,901.76	\$22,766.32	
96	\$49,901.76	\$166.34	\$508.80	\$49,392.96	\$22,932.66	
97	\$49,392.96	\$164.64	\$510.50	\$48,882.46	\$23,097.30	
98	\$48,882.46	\$162.94	\$512.20	\$48,370.26	\$23,260.25	
99	\$48,370.26	\$161.23	\$513.91	\$47,856.35	\$23,421.48	
100	\$47,856.35	\$159.52	\$515.62	\$47,340.73	\$23,581.00	
101	\$47,340.73	\$157.80	\$517.34	\$46,823.39	\$23,738.80	
102	\$46,823.39	\$156.08	\$519.06	\$46,304.32	\$23,894.88	
103	\$46,304.32	\$154.35	\$520.80	\$45,783.53	\$24,049.23	
104	\$45,783.53	\$152.61	\$522.53	\$45,260.99	\$24,201.84	
105	\$45,260.99	\$150.87	\$524.27	\$44,736.72	\$24,352.71	
106	\$44,736.72	\$149.12	\$526.02	\$44,210.70	\$24,501.83	
107	\$44,210.70	\$147.37	\$527.77	\$43,682.93	\$24,649.20	
108	\$43,682.93	\$145.61	\$529.53	\$43,153.39	\$24,794.81	

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111	\$42,089.03	\$140.30	\$534.85	\$41,554.18	\$25,221.03
112	\$41,554.18	\$138.51	\$536.63	\$41,017.55	\$25,359.54
113	\$41,017.55	\$136.73	\$538.42	\$40,479.13	\$25,496.27
114	\$40,479.13	\$134.93	\$540.21	\$39,938.92	\$25,631.20
115	\$39,938.92	\$133.13	\$542.01	\$39,396.91	\$25,764.33
116	\$39,396.91	\$131.32	\$543.82	\$38,853.09	\$25,895.65
117	\$38,853.09	\$129.51	\$545.63	\$38,307.46	\$26,025.16
118	\$38,307.46	\$127.69	\$547.45	\$37,760.01	\$26,152.85
119	\$37,760.01	\$125.87	\$549.28	\$37,210.73	\$26,278.72
120	\$37,210.73	\$124.04	\$551.11	\$36,659.62	\$26,402.75
121	\$36,659.62	\$122.20	\$552.94	\$36,106.68	\$26,524.95
122	\$36,106.68	\$120.36	\$554.79	\$35,551.89	\$26,645.31

\$531.30

\$533.07

\$42,622.10

\$42,089.03

\$24,938.66

\$25.080.73

\$143.84

\$142.07

\$43,153.39

\$42,622.10

170

171

\$7,280.16

\$6,629.28

Estimated Capital Cost:	\$11,683,080
Number of Benefitting Properties:	128
Cost per Connection:	\$91,274.06

per Connection:			\$91,274.06		
				Capital Cost Recovery Factor - A	
Loan Amount	Interest Rate	Term in Years	Monthly Payment		Monthly Cost -P =
\$91,274.00	4.00%	15	\$675.14		
Month	StartingBalance	Interest	Principal	EndingBalance	Total Interest
123	\$35,551.89	\$118.51	\$556.64	\$34,995.26	\$26,763.81
124	\$34,995.26	\$116.65	\$558.49	\$34,436.76	\$26,880.47
125	\$34,436.76	\$114.79	\$560.35	\$33,876.41	\$26,995.25
126	\$33,876.41	\$112.92	\$562.22	\$33,314.19	\$27,108.18
127	\$33,314.19	\$111.05	\$564.10	\$32,750.09	\$27,219.22
128	\$32,750.09	\$109.17	\$565.98	\$32,184.12	\$27,328.39
129	\$32,184.12	\$107.28	\$567.86	\$31,616.26	\$27,435.67
130	\$31,616.26	\$105.39	\$569.76	\$31,046.50	\$27,541.06
131	\$31,046.50	\$103.49	\$571.65	\$30,474.85	\$27,644.55
132	\$30,474.85	\$101.58	\$573.56	\$29,901.29	\$27,746.13
133	\$29,901.29	\$99.67	\$575.47	\$29,325.81	\$27,845.80
134	\$29,325.81	\$97.75	\$577.39	\$28,748.42	\$27,943.55
135	\$28,748.42	\$95.83	\$579.31	\$28,169.11	\$28,039.38
136	\$28,169.11	\$93.90	\$581.25	\$27,587.86	\$28,133.28
137	\$27,587.86	\$91.96	\$583.18	\$27,004.68	\$28,225.24
138	\$27,004.68	\$90.02	\$585.13	\$26,419.55	\$28,315.25
139	\$26,419.55	\$88.07	\$587.08	\$25,832.48	\$28,403.32
140	\$25,832.48	\$86.11	\$589.03	\$25,243.44	\$28,489.43
141	\$25,243.44	\$84.14	\$591.00	\$24,652.44	\$28,573.57
142	\$24,652.44	\$82.17	\$592.97	\$24,059.47	\$28,655.75
143	\$24,059.47	\$80.20	\$594.94	\$23,464.53	\$28,735.94
144	\$23,464.53	\$78.22	\$596.93	\$22,867.60	\$28,814.16
145	\$22,867.60	\$76.23	\$598.92	\$22,268.69	\$28,890.39
146	\$22,268.69	\$74.23	\$600.91	\$21,667.77	\$28,964.61
147	\$21,667.77	\$72.23	\$602.92	\$21,064.85	\$29,036.84
148	\$21,064.85	\$70.22	\$604.93	\$20,459.93	\$29,107.06
149	\$20,459.93	\$68.20	\$606.94	\$19,852.98	\$29,175.26
150	\$19,852.98	\$66.18	\$608.97	\$19,244.02	\$29,241.43
150	\$19,244.02	\$64.15	\$611.00	\$18,633.02	\$29,305.58
152	\$18,633.02	\$62.11	\$613.03	\$18,019.99	\$29,367.69
152	\$18,019.99	\$60.07	\$615.08	\$17,404.91	\$29,427.76
153	\$17,404.91	\$58.02	\$617.13		
155	\$16,787.79	\$55.96	\$619.18	\$16,787.79 \$16,168.60	\$29,485.77 \$29,541.73
155	\$16,168.60	\$53.90	\$621.25	\$15,547.36	\$29,595.63
157	\$15,547.36	\$51.82	\$623.32	\$13,547.30 \$14,924.04	\$29,647.45
158	\$14,924.04	\$31.82 \$49.75	\$625.40	\$14,924.04 \$14,298.64	\$29,697.20
159	\$14,298.64 \$12,671,16	\$47.66 \$45.57	\$627.48 \$620.57	\$13,671.16 \$13,041,50	\$29,744.86 \$20,700,42
160 161	\$13,671.16 \$13,041,50	\$45.57 \$42.47	\$629.57 \$621.67	\$13,041.59 \$12,400,02	\$29,790.43 \$20,822.00
161	\$13,041.59 \$13,400.03	\$43.47 \$41.27	\$631.67 \$632.78	\$12,409.92	\$29,833.90 \$20,875,27
162	\$12,409.92	\$41.37 \$20.25	\$633.78 \$635.80	\$11,776.14	\$29,875.27
163	\$11,776.14	\$39.25	\$635.89	\$11,140.25	\$29,914.52
164	\$11,140.25	\$37.13	\$638.01	\$10,502.25	\$29,951.66
165	\$10,502.25	\$35.01	\$640.14	\$9,862.11	\$29,986.66
166	\$9,862.11	\$32.87	\$642.27	\$9,219.84	\$30,019.54
167	\$9,219.84	\$30.73	\$644.41	\$8,575.43	\$30,050.27
168	\$8,575.43	\$28.58	\$646.56	\$7,928.87	\$30,078.86
169	\$7,928.87	\$26.43	\$648.71	\$7,280.16	\$30,105.29
170	\$7 280 16	\$24.27	\$650.88	\$6 629 28	\$30 129 55

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	+-,	+	+	+-,	+,
172	\$5,976.24	\$19.92	\$655.22	\$5,321.02	\$30,171.57
173	\$5,321.02	\$17.74	\$657.41	\$4,663.61	\$30,189.31
174	\$4,663.61	\$15.55	\$659.60	\$4,004.01	\$30,204.85
175	\$4,004.01	\$13.35	\$661.80	\$3,342.22	\$30,218.20
176	\$3,342.22	\$11.14	\$664.00	\$2,678.22	\$30,229.34
177	\$2,678.22	\$8.93	\$666.22	\$2,012.00	\$30,238.27
178	\$2,012.00	\$6.71	\$668.44	\$1,343.56	\$30,244.97
179	\$1,343.56	\$4.48	\$670.66	\$672.90	\$30,249.45
180	\$672.90	\$2.24	\$672.90	\$0.00	\$30,251.70

\$650.88

\$653.05

\$6,629.28

\$5,976.24

\$30,129.55

\$30,151.65

\$24.27

\$22.10

48

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Estimated Capital Cost:	\$11,683,080
Number of Benefitting Properties:	128
Cost per Connection:	\$91,274.06

er connection:			\$91,274.06			
				Capital Cost Recovery Factor - A =		
oan Amount	Interest Rate	Term in Years	Monthly Payment		Monthly Cost -P =	
\$91,274.00	4.00%	20	\$553.10			
Month	Starting Balance	Interest	Principal	Ending Balance	Total Interest	
4	-		-	-		
1	\$91,274.00	\$304.25	\$248.86	\$91,025.14	\$304.25	
2	\$91,025.14	\$303.42	\$249.69	\$90,775.46	\$607.66	
3	\$90,775.46	\$302.58	\$250.52	\$90,524.94	\$910.25	
4	\$90,524.94	\$301.75	\$251.35	\$90,273.59	\$1,212.00	
5	\$90,273.59	\$300.91	\$252.19	\$90,021.40	\$1,512.91	
6	\$90,021.40	\$300.07	\$253.03	\$89,768.37	\$1,812.98	
7	\$89,768.37	\$299.23	\$253.87	\$89,514.49	\$2,112.21	
8	\$89,514.49	\$298.38	\$254.72	\$89,259.77	\$2,410.59	
9	\$89,259.77	\$297.53	\$255.57	\$89,004.20	\$2,708.12	
10	\$89,004.20	\$296.68	\$256.42	\$88,747.78	\$3,004.80	
11	\$88,747.78	\$295.83	\$257.28	\$88,490.50	\$3,300.63	
12	\$88,490.50	\$294.97	\$258.13	\$88,232.37	\$3,595.60	
13	\$88,232.37	\$294.11	\$258.99	\$87,973.37	\$3,889.71	
14	\$87,973.37	\$293.24	\$259.86	\$87,713.52	\$4,182.95	
15	\$87,713.52	\$292.38	\$260.72	\$87,452.79	\$4,475.33	
16	\$87,452.79	\$291.51	\$261.59	\$87,191.20	\$4,766.84	
17	\$87,191.20	\$290.64	\$262.47	\$86,928.73	\$5,057.48	
18	\$86,928.73	\$289.76	\$263.34	\$86,665.39	\$5,347.24	
19	\$86,665.39	\$288.88	\$264.22	\$86,401.18	\$5,636.12	
20	\$86,401.18	\$288.00	\$265.10	\$86,136.08	\$5,924.13	
21	\$86,136.08	\$287.12	\$265.98	\$85,870.10	\$6,211.25	
22	\$85,870.10	\$286.23	\$266.87	\$85,603.23	\$6,497.48	
23	\$85,603.23	\$285.34	\$267.76	\$85,335.47	\$6,782.83	
24	\$85,335.47	\$284.45	\$268.65	\$85,066.82	\$7,067.28	
25	\$85,066.82	\$283.56	\$269.55	\$84,797.27	\$7,350.83	
26	\$84,797.27	\$282.66	\$270.44	\$84,526.83	\$7,633.49	
27	\$84,526.83	\$281.76	\$271.35	\$84,255.48	\$7,915.25	
28	\$84,255.48	\$280.85	\$272.25	\$83,983.23	\$8,196.10	
29	\$83,983.23	\$279.94	\$273.16	\$83,710.07	\$8,476.04	
30	\$83,710.07	\$279.03	\$274.07	\$83,436.00	\$8,755.08	
31	\$83,436.00	\$278.12	\$274.98	\$83,161.02	\$9,033.20	
32	\$83,161.02	\$277.20	\$275.90	\$82,885.12	\$9,310.40	
33	\$82,885.12	\$276.28	\$276.82	\$82,608.30	\$9,586.68	
34	\$82,608.30	\$275.36	\$277.74	\$82,330.56	\$9,862.04	
35	\$82,330.56	\$274.44	\$278.67	\$82,051.89	\$10,136.48	
36	\$82,051.89	\$273.51	\$279.60	\$81,772.30	\$10,409.99	
37	\$81,772.30	\$272.57	\$280.53	\$81,491.77	\$10,682.56	
38	\$81,491.77	\$271.64	\$281.46	\$81,210.30	\$10,954.20	
39	\$81,210.30	\$270.70	\$282.40	\$80,927.90	\$11,224.90	
40	\$80,927.90	\$269.76	\$283.34	\$80,644.56	\$11,494.66	
41	\$80,644.56	\$268.82	\$284.29	\$80,360.27	\$11,763.47	
42	\$80,360.27	\$267.87	\$285.23	\$80,075.04	\$12,031.34	
43	\$80,075.04	\$266.92	\$286.19	\$79,788.85	\$12,298.26	
44	\$79,788.85	\$265.96	\$287.14	\$79,501.71	\$12,564.22	
45	\$79,501.71	\$265.01	\$288.10	\$79,213.62	\$12,829.23	
46	\$79,213.62	\$264.05	\$289.06	\$78,924.56	\$13,093.27	
47	\$78,924.56	\$263.08	\$290.02	\$78,634.54	\$13,356.36	
48	\$78,634,54	\$262.00	\$200.02	\$78 343 55	\$13 618 47	

0.006059803

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50	\$78,051.59	\$260.17	\$292.93	\$77,758.66	\$14,139.79
51	\$77,758.66	\$259.20	\$293.91	\$77,464.76	\$14,398.98
52	\$77,464.76	\$258.22	\$294.89	\$77,169.87	\$14,657.20
53	\$77,169.87	\$257.23	\$295.87	\$76,874.00	\$14,914.43
54	\$76,874.00	\$256.25	\$296.86	\$76,577.14	\$15,170.68
55	\$76,577.14	\$255.26	\$297.85	\$76,279.30	\$15,425.94
56	\$76,279.30	\$254.26	\$298.84	\$75,980.46	\$15,680.20
57	\$75,980.46	\$253.27	\$299.83	\$75,680.63	\$15,933.47
58	\$75,680.63	\$252.27	\$300.83	\$75,379.79	\$16,185.74
59	\$75,379.79	\$251.27	\$301.84	\$75,077.96	\$16,437.00
60	\$75,077.96	\$250.26	\$302.84	\$74,775.11	\$16,687.26
61	\$74,775.11	\$249.25	\$303.85	\$74,471.26	\$16,936.51

\$290.99

\$291.96

\$78,343.55

\$78,051.59

\$13,618.47

\$13,879.62

\$262.12

\$261.15

\$78,634.54

\$78,343.55

TOWNSHIP OF PUSLINCH Wastewater Servicing - Option WW2

109

110

\$58,987.08

\$58,630.60

Estimated Capital Cost:	\$11,683,080
Number of Benefitting Properties:	128
Cost per Connection:	\$91,274.06

Cost per Connection:			\$91,274.06			
	Interest Date	Term in Veene	Manthly Daymant	Capital Cost	t Recovery Factor - A = Monthly Cost -P =	0.006059803
Loan Amount	Interest Rate	Term in Years	Monthly Payment		Montally Cool 1	\$553.10
\$91,274.00	4.00%	20	\$553.10			
Month	Starting Balance	Interest	Principal	Ending Balance	Total Interest	
62	\$74,471.26	\$248.24	\$304.86	\$74,166.40	\$17,184.75	
63	\$74,166.40	\$247.22	\$305.88	\$73,860.52	\$17,431.97	
64	\$73,860.52	\$246.20	\$306.90	\$73,553.61	\$17,678.17	
65	\$73,553.61	\$245.18	\$307.92	\$73,245.69	\$17,923.35	
66	\$73,245.69	\$244.15	\$308.95	\$72,936.74	\$18,167.50	
67	\$72,936.74	\$243.12	\$309.98	\$72,626.76	\$18,410.63	
68	\$72,626.76	\$242.09	\$311.01	\$72,315.75	\$18,652.72	
69	\$72,315.75	\$241.05	\$312.05	\$72,003.70	\$18,893.77	
70	\$72,003.70	\$240.01	\$313.09	\$71,690.61	\$19,133.78	
71	\$71,690.61	\$238.97	\$314.13	\$71,376.47	\$19,372.75	
72	\$71,376.47	\$237.92	\$315.18	\$71,061.29	\$19,610.67	
73	\$71,061.29	\$236.87	\$316.23	\$70,745.06	\$19,847.54	
74	\$70,745.06	\$235.82	\$317.29	\$70,427.78	\$20,083.36	
75	\$70,427.78	\$234.76	\$318.34	\$70,109.43	\$20,318.12	
76	\$70,109.43	\$233.70	\$319.40	\$69,790.03	\$20,551.82	
77	\$69,790.03	\$232.63	\$320.47	\$69,469.56	\$20,784.45	
78	\$69,469.56	\$231.57	\$321.54	\$69,148.02	\$21,016.02	
79	\$69,148.02	\$230.49	\$322.61	\$68,825.41	\$21,246.51	
80	\$68,825.41	\$229.42	\$323.68	\$68,501.73	\$21,475.93	
81	\$68,501.73	\$228.34	\$324.76	\$68,176.96	\$21,704.27	
82	\$68,176.96	\$227.26	\$325.85	\$67,851.12	\$21,931.52	
83	\$67,851.12	\$226.17	\$326.93	\$67,524.19	\$22,157.69	
84	\$67,524.19	\$225.08	\$328.02	\$67,196.16	\$22,382.77	
85	\$67,196.16	\$223.99	\$329.12	\$66,867.05	\$22,606.76	
86	\$66,867.05	\$222.89	\$330.21	\$66,536.84	\$22,829.65	
87	\$66,536.84	\$221.79	\$331.31	\$66,205.52	\$23,051.44	
88	\$66,205.52	\$220.69	\$332.42	\$65,873.11	\$23,272.13	
89	\$65,873.11	\$219.58	\$333.53	\$65,539.58	\$23,491.70	
90	\$65,539.58	\$218.47	\$334.64	\$65,204.94	\$23,710.17	
91	\$65,204.94	\$217.35	\$335.75	\$64,869.19	\$23,927.52	
92	\$64,869.19	\$216.23	\$336.87	\$64,532.32	\$24,143.75	
93	\$64,532.32	\$215.11	\$337.99	\$64,194.32	\$24,358.86	
94	\$64,194.32	\$213.98	\$339.12	\$63,855.20	\$24,572.84	
95	\$63,855.20	\$212.85	\$340.25	\$63,514.95	\$24,785.69	
96	\$63,514.95	\$211.72	\$341.39	\$63,173.57	\$24,997.40	
97	\$63,173.57	\$210.58	\$342.52	\$62,831.04	\$25,207.98	
98	\$62,831.04	\$209.44	\$343.67	\$62,487.38	\$25,417.42	
99	\$62,487.38	\$208.29	\$344.81	\$62,142.56	\$25,625.71	
100	\$62,142.56	\$207.14	\$345.96	\$61,796.60	\$25,832.85	
101	\$61,796.60	\$205.99	\$347.11	\$61,449.49	\$26,038.84	
102	\$61,449.49	\$204.83	\$348.27	\$61,101.22	\$26,243.67	
103	\$61,101.22	\$203.67	\$349.43	\$60,751.79	\$26,447.34	
104	\$60,751.79	\$202.51	\$350.60	\$60,401.19	\$26,649.85	
105	\$60,401.19	\$201.34	\$351.77	\$60,049.43	\$26,851.19	
106	\$60,049.43	\$200.16	\$352.94	\$59,696.49	\$27,051.35	
107	\$59,696.49	\$198.99	\$354.11	\$59,342.37	\$27,250.34	
108	\$59,342.37	\$197.81	\$355.29	\$58,987.08	\$27,448.15	
100	AF0.007.00	* 4 * * *	*****	AFA 444	*•••••••••••••	

111\$58,272.93\$194.24\$358.86\$57,914.07\$28,034112\$57,914.07\$193.05\$360.06\$57,554.02\$28,227
112 \$57,914.07 \$193.05 \$360.06 \$57,554.02 \$28,227
113 \$57,554.02 \$191.85 \$361.26 \$57,192.76 \$28,419
114 \$57,192.76 \$190.64 \$362.46 \$56,830.30 \$28,609
115 \$56,830.30 \$189.43 \$363.67 \$56,466.63 \$28,799
116 \$56,466.63 \$188.22 \$364.88 \$56,101.75 \$28,987
117 \$56,101.75 \$187.01 \$366.10 \$55,735.66 \$29,174
118 \$55,735.66 \$185.79 \$367.32 \$55,368.34 \$29,360
119 \$55,368.34 \$184.56 \$368.54 \$54,999.80 \$29,544
120 \$54,999.80 \$183.33 \$369.77 \$54,630.03 \$29,728
121 \$54,630.03 \$182.10 \$371.00 \$54,259.03 \$29,910
122 \$54,259.03 \$180.86 \$372.24 \$53,886.79 \$30,09 ⁻

\$356.48

\$357.67

\$58,630.60

\$58,272.93

\$27,644.77

\$27,840.21

\$196.62

\$195.44

TOWNSHIP OF PUSLINCH Wastewater Servicing - Option WW2

170

171

\$34,917.63

\$34,480,92

Estimated Capital Cost:	\$11,683,080
Number of Benefitting Properties:	128
Cost per Connection:	\$91,274.06

C	lost per connection:			\$91,274.06			
ì		Internet Date			Capital Cost	Recovery Factor - A = Monthly Cost -P =	0.006059803
	Loan Amount	Interest Rate	Term in Years	Monthly Payment			\$553.10
	\$91,274.00	4.00%	20	\$553.10			
	Month	Starting Balance	Interest	Principal	Ending Balance	Total Interest	
	123	\$53,886.79	\$179.62	\$373.48	\$53,513.31	\$30,270.91	
	124	\$53,513.31	\$178.38	\$374.72	\$53,138.58	\$30,449.29	
	125	\$53,138.58	\$177.13	\$375.97	\$52,762.61	\$30,626.42	
	126	\$52,762.61	\$175.88	\$377.23	\$52,385.38	\$30,802.30	
	127	\$52,385.38	\$174.62	\$378.48	\$52,006.90	\$30,976.91	
	128	\$52,006.90	\$173.36	\$379.75	\$51,627.15	\$31,150.27	
	129	\$51,627.15	\$172.09	\$381.01	\$51,246.14	\$31,322.36	
	130	\$51,246.14	\$170.82	\$382.28	\$50,863.86	\$31,493.18	
	131	\$50,863.86	\$169.55	\$383.56	\$50,480.30	\$31,662.73	
	132	\$50,480.30	\$168.27	\$384.83	\$50,095.47	\$31,830.99	
	133	\$50,095.47	\$166.98	\$386.12	\$49,709.35	\$31,997.98	
	134	\$49,709.35	\$165.70	\$387.40	\$49,321.94	\$32,163.68	
	135	\$49,321.94	\$164.41	\$388.70	\$48,933.25	\$32,328.08	
	136	\$48,933.25	\$163.11	\$389.99	\$48,543.26	\$32,491.19	
	137	\$48,543.26	\$161.81	\$391.29	\$48,151.96	\$32,653.01	
	138	\$48,151.96	\$160.51	\$392.60	\$47,759.37	\$32,813.51	
	139	\$47,759.37	\$159.20	\$393.90	\$47,365.46	\$32,972.71	
	140	\$47,365.46	\$157.88	\$395.22	\$46,970.25	\$33,130.59	
	141	\$46,970.25	\$156.57	\$396.53	\$46,573.71	\$33,287.16	
	142	\$46,573.71	\$155.25	\$397.86	\$46,175.85	\$33,442.41	
	143	\$46,175.85	\$153.92	\$399.18	\$45,776.67	\$33,596.33	
	144	\$45,776.67	\$152.59	\$400.51	\$45,376.16	\$33,748.92	
	145	\$45,376.16	\$151.25	\$401.85	\$44,974.31	\$33,900.17	
	146	\$44,974.31	\$149.91	\$403.19	\$44,571.12	\$34,050.08	
	147	\$44,571.12	\$148.57	\$404.53	\$44,166.59	\$34,198.65	
	148	\$44,166.59	\$147.22	\$405.88	\$43,760.71	\$34,345.88	
	149	\$43,760.71	\$145.87	\$407.23	\$43,353.48	\$34,491.75	
	150	\$43,353.48	\$144.51	\$408.59	\$42,944.88	\$34,636.26	
	151	\$42,944.88	\$143.15	\$409.95	\$42,534.93	\$34,779.41	
	152	\$42,534.93	\$141.78	\$411.32	\$42,123.61	\$34,921.19	
	153	\$42,123.61	\$140.41	\$412.69	\$41,710.92	\$35,061.60	
	154	\$41,710.92	\$139.04	\$414.07	\$41,296.86	\$35,200.64	
	155	\$41,296.86	\$137.66	\$415.45	\$40,881.41	\$35,338.29	
	156	\$40,881.41	\$136.27	\$416.83	\$40,464.58	\$35,474.57	
	157	\$40,464.58	\$134.88	\$418.22	\$40,046.36	\$35,609.45	
	158	\$40,046.36	\$133.49	\$419.61	\$39,626.74	\$35,742.94	
	159	\$39,626.74	\$132.09	\$421.01	\$39,205.73	\$35,875.03	
	160	\$39,205.73	\$130.69	\$422.42	\$38,783.31	\$36,005.71	
	161	\$38,783.31	\$129.28	\$423.82	\$38,359.49	\$36,134.99	
	162	\$38,359.49	\$127.86	\$425.24	\$37,934.25	\$36,262.85	
	163	\$37,934.25	\$126.45	\$426.65	\$37,507.60	\$36,389.30	
	164	\$37,507.60	\$125.03	\$428.08	\$37,079.52	\$36,514.33	
	165	\$37,079.52	\$123.60	\$429.50	\$36,650.01	\$36,637.92	
	166	\$36,650.01	\$122.17	\$430.94	\$36,219.08	\$36,760.09	
	167	\$36,219.08	\$120.73	\$432.37	\$35,786.71	\$36,880.82	
	168	\$35,786.71	\$119.29	\$433.81	\$35,352.89	\$37,000.11	
	169	\$35,352.89	\$117.84	\$435.26	\$34,917.63	\$37,117.95	

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172	\$34,042.76	\$113.48	\$439.63	\$33,603.13	\$37,462.76
173	\$33,603.13	\$112.01	\$441.09	\$33,162.04	\$37,574.77
174	\$33,162.04	\$110.54	\$442.56	\$32,719.48	\$37,685.31
175	\$32,719.48	\$109.06	\$444.04	\$32,275.44	\$37,794.37
176	\$32,275.44	\$107.58	\$445.52	\$31,829.92	\$37,901.96
177	\$31,829.92	\$106.10	\$447.00	\$31,382.92	\$38,008.06
178	\$31,382.92	\$104.61	\$448.49	\$30,934.43	\$38,112.67
179	\$30,934.43	\$103.11	\$449.99	\$30,484.44	\$38,215.78
180	\$30,484.44	\$101.61	\$451.49	\$30,032.95	\$38,317.40
181	\$30,032.95	\$100.11	\$452.99	\$29,579.96	\$38,417.51
182	\$29,579.96	\$98.60	\$454.50	\$29,125.45	\$38,516.11
183	\$29,125.45	\$97.08	\$456.02	\$28,669.44	\$38,613.19

\$436.71

\$438.17

\$34,480.92

\$34,042.76

\$37,234.35

\$37,349.28

\$116.39

\$114.94

TOWNSHIP OF PUSLINCH Wastewater Servicing - Option WW2

231

232

Estimated Capital Cost:	\$11,683,080
Number of Benefitting Properties:	128
Cost per Connection:	\$91,274.06

			Capital Cost Recovery Factor - A =		
Loan Amount	Interest Rate	Term in Years	Monthly Payment		Monthly Cost -P =
\$91,274.00	4.00%	20	\$553.10		
Month	Starting Balance	Interest	Principal	Ending Balance	Total Interest
184	\$28,669.44	\$95.56	\$457.54	\$28,211.90	\$38,708.76
185	\$28,211.90	\$94.04	\$459.06	\$27,752.84	\$38,802.80
186	\$27,752.84	\$92.51	\$460.59	\$27,292.24	\$38,895.31
187	\$27,292.24	\$90.97	\$462.13	\$26,830.12	\$38,986.28
188	\$26,830.12	\$89.43	\$463.67	\$26,366.45	\$39,075.71
189	\$26,366.45	\$87.89	\$465.21	\$25,901.23	\$39,163.60
190	\$25,901.23	\$86.34	\$466.77	\$25,434.47	\$39,249.94
191	\$25,434.47	\$84.78	\$468.32	\$24,966.15	\$39,334.72
192	\$24,966.15	\$83.22	\$469.88	\$24,496.26	\$39,417.94
193	\$24,496.26	\$81.65	\$471.45	\$24,024.82	\$39,499.60
194	\$24,024.82	\$80.08	\$473.02	\$23,551.80	\$39,579.68
195	\$23,551.80	\$78.51	\$474.60	\$23,077.20	\$39,658.18
196	\$23,077.20	\$76.92	\$476.18	\$22,601.02	\$39,735.11
197	\$22,601.02	\$75.34	\$477.77	\$22,123.26	\$39,810.45
198	\$22,123.26	\$73.74	\$479.36	\$21,643.90	\$39,884.19
199	\$21,643.90	\$72.15	\$480.96	\$21,162.94	\$39,956.34
200	\$21,162.94	\$70.54	\$482.56	\$20,680.38	\$40,026.88
201	\$20,680.38	\$68.93	\$484.17	\$20,196.21	\$40,095.81
202	\$20,196.21	\$67.32	\$485.78	\$19,710.43	\$40,163.13
203	\$19,710.43	\$65.70	\$487.40	\$19,223.03	\$40,228.84
204	\$19,223.03	\$64.08	\$489.03	\$18,734.01	\$40,292.91
205	\$18,734.01	\$62.45	\$490.66	\$18,243.35	\$40,355.36
206	\$18,243.35	\$60.81	\$492.29	\$17,751.06	\$40,416.17
200	\$17,751.06	\$59.17	\$493.93	\$17,257.13	\$40,475.34
208	\$17,257.13	\$57.52	\$495.58	\$16,761.55	\$40,532.86
209	\$16,761.55	\$55.87	\$497.23	\$16,264.32	\$40,588.74
210	\$16,264.32	\$54.21	\$498.89	\$15,765.43	\$40,642.95
210	\$15,765.43	\$52.55	\$500.55	\$15,264.88	\$40,695.50
212	\$15,264.88	\$50.88	\$502.22	\$14,762.66	\$40,746.38
212	\$14,762.66	\$49.21	\$503.89	\$14,258.76	\$40,795.59
213	\$14,258.76	\$47.53	\$505.57	\$13,753.19	\$40,843.12
215	\$13,753.19	\$45.84	\$507.26	\$13,245.93	\$40,888.97
215	\$13,245.93	\$44.15	\$508.95	\$12,736.98	\$40,933.12
210	\$12,736.98	\$42.46	\$510.65	\$12,226.34	\$40,935.12 \$40,975.58
217	\$12,730.98	\$42.40	\$512.35	\$12,220.34 \$11,713.99	\$41,016.33
218	\$11,713.99	\$39.05	\$514.06	\$11,199.93	\$41,055.38
219	\$11,199.93	\$39.05	\$515.77	\$10,684.16	\$41,092.71
220	\$10,684.16	\$37.33	\$517.49	\$10,166.68	\$41,128.32
221	\$10,166.68	\$33.89	\$517.49	\$9,647.46	\$41,120.32 \$41,162.21
222					
	\$9,647.46 \$9,126.52	\$32.16 \$30.42	\$520.94 \$522.68	\$9,126.52 \$8,603,84	\$41,194.37 \$41,224,79
224	\$9,126.52 \$8,603,84	\$30.42 \$28.68	\$522.68 \$524.42	\$8,603.84 \$8,070.41	\$41,224.79 \$41,253,47
225	\$8,603.84	\$28.68 \$26.02	\$524.42	\$8,079.41 \$7,552.24	\$41,253.47
226	\$8,079.41 \$7,553.24	\$26.93 \$25.18	\$526.17	\$7,553.24 \$7,025,22	\$41,280.40 \$41,205,58
227	\$7,553.24	\$25.18 \$22.42	\$527.93 \$520.68	\$7,025.32 \$6,405,63	\$41,305.58 \$41,320,00
228	\$7,025.32	\$23.42	\$529.68	\$6,495.63 \$5.064.48	\$41,329.00
229	\$6,495.63 \$5.064.18	\$21.65 \$10.88	\$531.45	\$5,964.18 \$5,420.06	\$41,350.65 \$41,370,53
230	\$5,964.18 \$5,420.06	\$19.88 \$18.10	\$533.22 \$535.00	\$5,430.96 \$4,805.06	\$41,370.53 \$41,388,64
		£10 10			

0.006059803 \$553.10

Capital Cost Recovery Factor - A =

	+ .,	+ · · · · -	+	+ .,	+ ,
233	\$4,359.18	\$14.53	\$538.57	\$3,820.61	\$41,419.49
234	\$3,820.61	\$12.74	\$540.37	\$3,280.24	\$41,432.22
235	\$3,280.24	\$10.93	\$542.17	\$2,738.07	\$41,443.16
236	\$2,738.07	\$9.13	\$543.98	\$2,194.10	\$41,452.28
237	\$2,194.10	\$7.31	\$545.79	\$1,648.31	\$41,459.60
238	\$1,648.31	\$5.49	\$547.61	\$1,100.70	\$41,465.09
239	\$1,100.70	\$3.67	\$549.43	\$551.26	\$41,468.76
240	\$551.26	\$1.84	\$551.26	\$0.00	\$41,470.60

\$535.00

\$536.78

\$4,895.96

\$4.359.18

\$41,388.64

\$41,404.96

\$18.10

\$16.32

\$5,430.96

\$4,895.96

						D (Discount Factor) =	98.77017486
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$604.72
\$59,728.00	4.00%	10	\$604.72				
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest		
1	\$59,728.00	\$199.09	\$405.62	\$59,322.38	\$199.09		
2	\$59,322.38	\$197.74	\$406.98	\$58,915.40	\$396.83		
3	\$58,915.40	\$196.38	\$408.33	\$58,507.07	\$593.22		
4	\$58,507.07	\$195.02	\$409.69	\$58,097.37	\$788.24		
5	\$58,097.37	\$193.66	\$411.06	\$57,686.32	\$981.90		
6	\$57,686.32	\$192.29	\$412.43	\$57,273.89	\$1,174.19		
7	\$57,273.89	\$190.91	\$413.80	\$56,860.08	\$1,365.10		
8	\$56,860.08	\$189.53	\$415.18	\$56,444.90	\$1,554.64		
9	\$56,444.90 \$56,028,22	\$188.15 \$186.76	\$416.57	\$56,028.33 \$55,610,28	\$1,742.78 \$1,020.55		
10 11	\$56,028.33 \$55,610.38	\$186.76 \$185.37	\$417.96 \$419.35	\$55,610.38 \$55,191.03	\$1,929.55 \$2,114.91		
12	\$55,191.03	\$183.97	\$420.75	\$54,770.28	\$2,114.91 \$2,298.88		
13	\$54,770.28	\$182.57	\$422.15	\$54,348.13	\$2,481.45		
14	\$54,348.13	\$181.16	\$423.56	\$53,924.57	\$2,662.61		
15	\$53,924.57	\$179.75	\$424.97	\$53,499.61	\$2,842.36		
16	\$53,499.61	\$178.33	\$426.38	\$53,073.22	\$3,020.69		
17	\$53,073.22	\$176.91	\$427.81	\$52,645.41	\$3,197.60		
18	\$52,645.41	\$175.48	\$429.23	\$52,216.18	\$3,373.09		
19	\$52,216.18	\$174.05	\$430.66	\$51,785.52	\$3,547.14		
20	\$51,785.52	\$172.62	\$432.10	\$51,353.42	\$3,719.76		
21	\$51,353.42	\$171.18	\$433.54	\$50,919.88	\$3,890.94		
22 23	\$50,919.88 \$50,484.90	\$169.73 \$168.28	\$434.98 \$436.43	\$50,484.90 \$50,048.46	\$4,060.67 \$4,228.95		
23	\$50,048.46	\$166.83	\$437.89	\$49,610.58	\$4,395.78		
25	\$49,610.58	\$165.37	\$439.35	\$49,171.23	\$4,561.15		
26 27	\$49,171.23 \$48,730.41	\$163.90 \$162.43	\$440.81 \$442.28	\$48,730.41 \$48,288.13	\$4,725.06 \$4,887.49		
28	\$48,288.13	\$160.96	\$443.76	\$47,844.38	\$5,048.45		
29	\$47,844.38	\$159.48	\$445.24	\$47,399.14	\$5,207.93		
30 31	\$47,399.14 \$46,952.42	\$158.00 \$156.51	\$446.72 \$448.21	\$46,952.42 \$46,504.21	\$5,365.93 \$5,522.44		
32	\$46,504.21	\$155.01	\$449.70	\$46,054.51	\$5,677.45		
33	\$46,054.51	\$153.52	\$451.20	\$45,603.31	\$5,830.97		
34 35	\$45,603.31 \$45,150.60	\$152.01 \$150.50	\$452.71 \$454.21	\$45,150.60 \$44,696.39	\$5,982.98 \$6,133.48		
36	\$44,696.39	\$148.99	\$455.73	\$44,090.39 \$44,240.66	\$6,282.47		
37	\$44,240.66	\$147.47	\$457.25	\$43,783.41	\$6,429.94		
38 39	\$43,783.41 \$43,324.64	\$145.94 \$144.42	\$458.77 \$460.30	\$43,324.64 \$42,864.33	\$6,575.88 \$6,720.20		
40	\$42,864.33	\$144.42 \$142.88	\$461.84	\$42,402.50 \$42,402.50	\$6,720.30 \$6,863.18		
41	\$42,402.50	\$141.34	\$463.38	\$41,939.12	\$7,004.52		
42	\$41,939.12	\$139.80	\$464.92	\$41,474.20	\$7,144.32 \$7,282.56		
43 44	\$41,474.20 \$41,007.73	\$138.25 \$136.69	\$466.47 \$468.02	\$41,007.73 \$40,539.71	\$7,282.56 \$7,419.26		
45	\$40,539.71	\$135.13	\$469.58	\$40,070.12	\$7,554.39		
46	\$40,070.12	\$133.57	\$471.15	\$39,598.97	\$7,687.95		
47 48	\$39,598.97 \$39,126.25	\$132.00 \$130.42	\$472.72 \$474.30	\$39,126.25 \$38,651.96	\$7,819.95 \$7,950.37		
49	\$38,651.96	\$128.84	\$475.88	\$38,176.08	\$8,079.21		
50	\$38,176.08 \$37,608,62	\$127.25 \$125.66	\$477.46 \$470.05	\$37,698.62 \$37,210,56	\$8,206.47 \$8,222.12		
51 52	\$37,698.62 \$37,219.56	\$125.66 \$124.07	\$479.05 \$480.65	\$37,219.56 \$36,738.91	\$8,332.13 \$8,456.19		
53	\$36,738.91	\$122.46	\$482.25	\$36,256.66	\$8,578.66		
54	\$36,256.66	\$120.86	\$483.86	\$35,772.80	\$8,699.51		
55 56	\$35,772.80 \$35,287.32	\$119.24 \$117.62	\$485.47 \$487.09	\$35,287.32 \$34,800.23	\$8,818.75 \$8,936.38		
57	\$34,800.23	\$116.00	\$488.72	\$34,311.51	\$9,052.38		
58	\$34,311.51	\$114.37	\$490.35	\$33,821.17	\$9,166.75		
59 60	\$33,821.17 \$33,329.19	\$112.74 \$111.10	\$491.98 \$493.62	\$33,329.19 \$32,835.57	\$9,279.49 \$9,390.59		
61	\$32,835.57	\$109.45	\$495.27	\$32,340.30	\$9,500.04		
62	\$32,340.30	\$107.80	\$496.92	\$31,843.39	\$9,607.84		
63 64	\$31,843.39 \$31,344.81	\$106.14 \$104.48	\$498.57 \$500.23	\$31,344.81 \$30,844.58	\$9,713.98 \$9,818.47		
65	\$30,844.58	\$102.82	\$500.23	\$30,342.68	\$9,921.28		
66	\$30,342.68	\$101.14	\$503.57	\$29,839.10	\$10,022.42		
67 68	\$29,839.10 \$29,333.85	\$99.46 \$97.78	\$505.25 \$506.94	\$29,333.85 \$28,826.91	\$10,121.89 \$10,219.67		
69	\$28,826.91	\$96.09	\$508.63	\$28,318.29	\$10,315.76		

						D (Discount Factor) =	98.77017486
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$604.72
\$59,728.00	4.00%	10	\$604.72				
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest		
70	\$28,318.29	\$94.39	\$510.32	\$27,807.96	\$10,410.15		
71	\$27,807.96	\$92.69	\$512.02	\$27,295.94	\$10,502.84		
72	\$27,295.94	\$90.99	\$513.73	\$26,782.21	\$10,593.83		
73	\$26,782.21	\$89.27	\$515.44	\$26,266.77	\$10,683.10		
74	\$26,266.77	\$87.56	\$517.16	\$25,749.61	\$10,770.66		
75	\$25,749.61	\$85.83	\$518.88	\$25,230.72	\$10,856.49		
76	\$25,230.72	\$84.10	\$520.61	\$24,710.11	\$10,940.59		
77	\$24,710.11	\$82.37	\$522.35	\$24,187.76	\$11,022.96		
78	\$24,187.76	\$80.63	\$524.09	\$23,663.66	\$11,103.59		
79	\$23,663.66	\$78.88	\$525.84	\$23,137.83	\$11,182.47		
80	\$23,137.83	\$77.13	\$527.59	\$22,610.24	\$11,259.59		
81	\$22,610.24	\$75.37	\$529.35	\$22,080.89	\$11,334.96		
82	\$22,080.89	\$73.60	\$531.11	\$21,549.77	\$11,408.56		
83	\$21,549.77	\$71.83	\$532.88	\$21,016.89	\$11,480.40		
84	\$21,016.89	\$70.06	\$534.66	\$20,482.23	\$11,550.45		
85	\$20,482.23	\$68.27	\$536.44	\$19,945.78	\$11,618.73		
86	\$19,945.78	\$66.49	\$538.23	\$19,407.55	\$11,685.21		
87	\$19,407.55	\$64.69	\$540.03	\$18,867.53	\$11,749.90		
88	\$18,867.53	\$62.89	\$541.83	\$18,325.70	\$11,812.80		
89	\$18,325.70	\$61.09	\$543.63	\$17,782.07	\$11,873.88		
90	\$17,782.07	\$59.27	\$545.44	\$17,236.63	\$11,933.15		
91	\$17,236.63	\$57.46	\$547.26	\$16,689.37	\$11,990.61		
92	\$16,689.37	\$55.63	\$549.09	\$16,140.28	\$12,046.24		
93	\$16,140.28	\$53.80	\$550.92	\$15,589.36	\$12,100.04		
94	\$15,589.36	\$51.96	\$552.75	\$15,036.61	\$12,152.01		
95	\$15,036.61	\$50.12	\$554.59	\$14,482.02	\$12,202.13		
96	\$14,482.02	\$48.27	\$556.44	\$13,925.57	\$12,250.40		
97	\$13,925.57	\$46.42	\$558.30	\$13,367.28	\$12,296.82		
98	\$13,367.28	\$44.56	\$560.16	\$12,807.12	\$12,341.38		
99	\$12,807.12	\$42.69	\$562.03	\$12,245.09	\$12,384.07		
100	\$12,245.09	\$40.82	\$563.90	\$11,681.19	\$12,424.89		
101	\$11,681.19	\$38.94	\$565.78	\$11,115.41	\$12,463.82		
102	\$11,115.41	\$37.05	\$567.67	\$10,547.74	\$12,500.87		
103	\$10,547.74	\$35.16	\$569.56	\$9,978.19	\$12,536.03		
104	\$9,978.19	\$33.26	\$571.46	\$9,406.73	\$12,569.29		
105	\$9,406.73	\$31.36	\$573.36	\$8,833.37	\$12,600.65		
106	\$8,833.37	\$29.44	\$575.27	\$8,258.10	\$12,630.09		
107	\$8,258.10	\$27.53	\$577.19	\$7,680.91	\$12,657.62		
108	\$7,680.91	\$25.60	\$579.11	\$7,101.79	\$12,683.22		
109	\$7,101.79 \$6,500,75	\$23.67	\$581.04	\$6,520.75	\$12,706.90		
110	\$6,520.75 \$5,027,77	\$21.74	\$582.98	\$5,937.77	\$12,728.63		
111	\$5,937.77	\$19.79	\$584.92	\$5,352.84	\$12,748.43		
112	\$5,352.84	\$17.84	\$586.87	\$4,765.97	\$12,766.27		
113 114	\$4,765.97 \$4,177,14	\$15.89 \$13.92	\$588.83 \$500.70	\$4,177.14 \$3,586,35	\$12,782.15 \$12,786.08		
	\$4,177.14 \$3,586,35		\$590.79 \$592.76	\$3,586.35 \$2,003,58	\$12,796.08 \$12,808.03		
115 116	\$3,586.35 \$2,993.58	\$11.95 \$9.98	\$592.76 \$594.74	\$2,993.58 \$2,398.84	\$12,808.03 \$12,818.01		
117	\$2,398.84 \$2,398.84	\$9.98 \$8.00	\$596.72	\$2,398.84 \$1,802.12	\$12,826.01		
118	\$2,398.84 \$1,802.12	\$8.00 \$6.01	\$598.72 \$598.71	\$1,802.12 \$1,203.41	\$12,826.01		
119	\$1,203.41	\$4.01	\$600.71	\$602.71	\$12,836.03		
120	\$602.71	\$2.01	\$602.71	\$0.00	\$12,838.04		
120	ψ002.71	φ2.01	ψυυΖ./ Ι	φ0.00	ψ12,000.04		

						D (Discount Factor) =	135.1921487
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$441.80
\$59,728.00	4.00%	15	\$441.80				
M e with	Otoritin a Doloroo	lu to uo o t	D uine aire al	Fu dia a Dalamaa	Tetelluteneet		
Month 1	StartingBalance \$59,728.00	Interest \$199.09	Principal \$242.71	EndingBalance \$59,485.29	TotalInterest \$199.09		
2	\$59,485.29	\$198.28	\$243.52	\$59,241.78	\$397.38		
3	\$59,241.78	\$197.47	\$244.33	\$58,997.45	\$594.85		
4	\$58,997.45	\$196.66	\$245.14	\$58,752.31	\$791.51		
5	\$58,752.31	\$195.84	\$245.96	\$58,506.35	\$987.35		
6	\$58,506.35	\$195.02	\$246.78	\$58,259.57	\$1,182.37		
7	\$58,259.57	\$194.20	\$247.60	\$58,011.96	\$1,376.57		
8	\$58,011.96	\$193.37	\$248.43	\$57,763.54	\$1,569.94		
9	\$57,763.54	\$192.55	\$249.26	\$57,514.28	\$1,762.49		
10	\$57,514.28	\$191.71	\$250.09	\$57,264.19	\$1,954.20		
11	\$57,264.19	\$190.88	\$250.92	\$57,013.27	\$2,145.08		
12	\$57,013.27	\$190.04	\$251.76	\$56,761.52	\$2,335.13		
13	\$56,761.52	\$189.21	\$252.60	\$56,508.92	\$2,524.33		
14	\$56,508.92	\$188.36	\$253.44	\$56,255.48	\$2,712.69		
15	\$56,255.48	\$187.52	\$254.28	\$56,001.20	\$2,900.21		
16	\$56,001.20	\$186.67	\$255.13	\$55,746.07	\$3,086.88		
17	\$55,746.07	\$185.82	\$255.98	\$55,490.09	\$3,272.70		
18	\$55,490.09	\$184.97	\$256.83	\$55,233.26	\$3,457.67		
19	\$55,233.26	\$184.11	\$257.69	\$54,975.57	\$3,641.78		
20	\$54,975.57	\$183.25	\$258.55	\$54,717.02	\$3,825.03		
21 22	\$54,717.02 \$54,457.61	\$182.39 \$181.53	\$259.41 \$260.28	\$54,457.61 \$54,197.33	\$4,007.42 \$4,188.95		
22	\$54,197.33	\$180.66	\$261.14	\$53,936.19	\$4,168.95 \$4,369.61		
24	\$53,936.19	\$179.79	\$262.01	\$53,674.17	\$4,549.39		
25	\$53,674.17	\$178.91	\$262.89	\$53,411.29	\$4,728.31		
26 27	\$53,411.29 \$53,147.52	\$178.04 \$177.16	\$263.76 \$264.64	\$53,147.52 \$52,882.88	\$4,906.35 \$5,083.50		
28	\$52,882.88	\$176.28	\$265.52	\$52,617.36	\$5,259.78		
29	\$52,617.36	\$175.39	\$266.41	\$52,350.95	\$5,435.17		
30 31	\$52,350.95 \$52,083.65	\$174.50 \$173.61	\$267.30 \$268.19	\$52,083.65 \$51,815.46	\$5,609.67 \$5,783.29		
32	\$51,815.46	\$172.72	\$269.08	\$51,546.38	\$5,956.01		
33	\$51,546.38	\$171.82	\$269.98	\$51,276.40	\$6,127.83		
34	\$51,276.40	\$170.92	\$270.88	\$51,005.52	\$6,298.75		
35 36	\$51,005.52 \$50,733.74	\$170.02 \$169.11	\$271.78 \$272.69	\$50,733.74 \$50,461.05	\$6,468.77 \$6,637.88		
37	\$50,461.05	\$168.20	\$273.60	\$50,187.45	\$6,806.08		
38	\$50,187.45	\$167.29	\$274.51	\$49,912.94	\$6,973.37		
39 40	\$49,912.94 \$49,637.52	\$166.38 \$165.46	\$275.42 \$276.34	\$49,637.52 \$49,361.18	\$7,139.75 \$7,305.21		
40	\$49,361.18	\$164.54	\$277.26	\$49,083.91	\$7,469.75		
42	\$49,083.91	\$163.61	\$278.19	\$48,805.72	\$7,633.36		
43	\$48,805.72 \$48,526,61	\$162.69 \$161.76	\$279.12	\$48,526.61 \$48,246,56	\$7,796.04 \$7,057.80		
44 45	\$48,526.61 \$48,246.56	\$161.76 \$160.82	\$280.05 \$280.98	\$48,246.56 \$47,965.59	\$7,957.80 \$8,118.62		
46	\$47,965.59	\$159.89	\$281.92	\$47,683.67	\$8,278.51		
47	\$47,683.67	\$158.95	\$282.86	\$47,400.81	\$8,437.45		
48 49	\$47,400.81 \$47,117.02	\$158.00 \$157.06	\$283.80 \$284.74	\$47,117.02 \$46,832.27	\$8,595.46 \$8,752.51		
50	\$46,832.27	\$156.11	\$285.69	\$46,546.58	\$8,908.62		
51	\$46,546.58	\$155.16	\$286.65	\$46,259.93	\$9,063.77		
52 53	\$46,259.93 \$45,972.33	\$154.20 \$153.24	\$287.60 \$288.56	\$45,972.33 \$45,683.77	\$9,217.97 \$9,371.22		
54	\$45,683.77	\$152.28	\$289.52	\$45,394.25	\$9,523.49		
55	\$45,394.25	\$151.31	\$290.49	\$45,103.76	\$9,674.81		
56 57	\$45,103.76	\$150.35 \$140.37	\$291.45 \$202.42	\$44,812.31 \$44,510,88	\$9,825.16 \$0.074.53		
57 58	\$44,812.31 \$44,519.88	\$149.37 \$148.40	\$292.43 \$293.40	\$44,519.88 \$44,226.48	\$9,974.53 \$10,122.93		
59	\$44,226.48	\$147.42	\$294.38	\$43,932.10	\$10,270.35		
60	\$43,932.10	\$146.44	\$295.36	\$43,636.74	\$10,416.79		
61 62	\$43,636.74 \$43,340,40	\$145.46 \$144.47	\$296.34 \$297.33	\$43,340.40 \$43,043,06	\$10,562.25 \$10,706,71		
62 63	\$43,340.40 \$43,043.06	\$144.47 \$143.48	\$297.33 \$298.32	\$43,043.06 \$42,744.74	\$10,706.71 \$10,850.19		
64	\$42,744.74	\$142.48	\$299.32	\$42,445.42	\$10,992.67		
65	\$42,445.42	\$141.48	\$300.32	\$42,145.11	\$11,134.16		
66 67	\$42,145.11 \$41,843.79	\$140.48 \$139.48	\$301.32 \$302.32	\$41,843.79 \$41,541.47	\$11,274.64 \$11,414.12		
68	\$41,541.47	\$138.47	\$303.33	\$41,238.14	\$11,552.59		
69	\$41,238.14	\$137.46	\$304.34	\$40,933.80	\$11,690.05		

						D (Discount Factor) =	135.1921487
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$441.80
\$59,728.00	4.00%	15	\$441.80				
Month	StartingPolonce	Interect	Dringing	EndingBolonco	Totallatoroot		
Month 70	StartingBalance \$40,933.80	Interest \$136.45	Principal \$305.35	EndingBalance \$40,628.44	TotalInterest \$11,826.50		
71	\$40,628.44	\$135.43	\$306.37	\$40,322.07	\$11,961.93		
72	\$40,322.07	\$134.41	\$307.39	\$40,014.68	\$12,096.33		
73	\$40,014.68	\$133.38	\$308.42	\$39,706.26	\$12,229.72		
74 75	\$39,706.26 \$30,306,81	\$132.35 \$131.32	\$309.45 \$310.48	\$39,396.81 \$30,086,33	\$12,362.07 \$12,493.39		
76	\$39,396.81 \$39,086.33	\$130.29	\$311.51	\$39,086.33 \$38,774.82	\$12,623.68		
77	\$38,774.82	\$129.25	\$312.55	\$38,462.27	\$12,752.93		
78	\$38,462.27	\$128.21	\$313.59	\$38,148.68	\$12,881.14		
79	\$38,148.68	\$127.16	\$314.64	\$37,834.04	\$13,008.30		
80 81	\$37,834.04 \$27,518,25	\$126.11 \$125.06	\$315.69 \$316.74	\$37,518.35 \$37,201,61	\$13,134.41 \$13,259.48		
82	\$37,518.35 \$37,201.61	\$125.06	\$316.74 \$317.80	\$37,201.61 \$36,883.82	\$13,383.48		
83	\$36,883.82	\$122.95	\$318.85	\$36,564.96	\$13,506.43		
84	\$36,564.96	\$121.88	\$319.92	\$36,245.04	\$13,628.31		
85	\$36,245.04	\$120.82	\$320.98	\$35,924.06	\$13,749.13		
86	\$35,924.06	\$119.75	\$322.05	\$35,602.00	\$13,868.87		
87 88	\$35,602.00 \$35,278.88	\$118.67 \$117.60	\$323.13 \$324.20	\$35,278.88 \$34,954.67	\$13,987.55 \$14,105.14		
89	\$34,954.67	\$116.52	\$325.29	\$34,629.39	\$14,221.66		
90	\$34,629.39	\$115.43	\$326.37	\$34,303.02	\$14,337.09		
91	\$34,303.02	\$114.34	\$327.46	\$33,975.56	\$14,451.43		
92	\$33,975.56	\$113.25	\$328.55	\$33,647.01	\$14,564.69		
93	\$33,647.01	\$112.16	\$329.64	\$33,317.37	\$14,676.84		
94 95	\$33,317.37 \$32,986.62	\$111.06 \$109.96	\$330.74 \$331.85	\$32,986.62 \$32,654.78	\$14,787.90 \$14,897.86		
96	\$32,654.78	\$108.85	\$332.95	\$32,321.83	\$15,006.70		
97	\$32,321.83	\$107.74	\$334.06	\$31,987.77	\$15,114.44		
98	\$31,987.77	\$106.63	\$335.17	\$31,652.59	\$15,221.07		
99	\$31,652.59	\$105.51	\$336.29	\$31,316.30	\$15,326.58		
100	\$31,316.30 \$30,978.89	\$104.39 \$102.26	\$337.41	\$30,978.89 \$30,640.35	\$15,430.97		
101 102	\$30,640.35	\$103.26 \$102.13	\$338.54 \$339.67	\$30,640.35 \$30,300.68	\$15,534.23 \$15,636.36		
103	\$30,300.68	\$101.00	\$340.80	\$29,959.88	\$15,737.37		
104	\$29,959.88	\$99.87	\$341.93	\$29,617.95	\$15,837.23		
105	\$29,617.95	\$98.73	\$343.07	\$29,274.87	\$15,935.96		
106 107	\$29,274.87 \$28,930.66	\$97.58 \$96.44	\$344.22 \$345.37	\$28,930.66 \$28,585.29	\$16,033.54 \$16,129.98		
107	\$28,585.29	\$95.28	\$346.52	\$28,238.77	\$16,225.26		
109	\$28,238.77	\$94.13	\$347.67	\$27,891.10	\$16,319.39		
110	\$27,891.10	\$92.97	\$348.83	\$27,542.27	\$16,412.36		
111	\$27,542.27	\$91.81	\$349.99	\$27,192.28	\$16,504.17		
112 113	\$27,192.28 \$26,841.12	\$90.64 \$89.47	\$351.16 \$352.33	\$26,841.12 \$26,488.79	\$16,594.81 \$16,684.28		
114	\$26,488.79	\$88.30	\$353.50	\$26,135.28	\$16,772.58		
115	\$26,135.28	\$87.12	\$354.68	\$25,780.60	\$16,859.69		
116	\$25,780.60	\$85.94	\$355.87	\$25,424.74	\$16,945.63		
117	\$25,424.74	\$84.75	\$357.05	\$25,067.68	\$17,030.38		
118 119	\$25,067.68 \$24,709.44	\$83.56 \$82.36	\$358.24 \$359.44	\$24,709.44 \$24,350.01	\$17,113.94 \$17,196.30		
120	\$24,709.44	\$81.17	\$360.63	\$23,989.37	\$17,277.47		
121	\$23,989.37	\$79.96	\$361.84	\$23,627.54	\$17,357.43		
122	\$23,627.54	\$78.76	\$363.04	\$23,264.49	\$17,436.19		
123	\$23,264.49	\$77.55 \$76.32	\$364.25	\$22,900.24 \$22,534,77	\$17,513.74 \$17,500.07		
124 125	\$22,900.24 \$22,534.77	\$76.33 \$75.12	\$365.47 \$366.68	\$22,534.77 \$22,168.09	\$17,590.07 \$17,665.19		
125	\$22,168.09	\$73.89	\$367.91	\$22,108.09	\$17,739.08		
127	\$21,800.18	\$72.67	\$369.13	\$21,431.05	\$17,811.75		
128	\$21,431.05	\$71.44	\$370.36	\$21,060.69	\$17,883.19		
129	\$21,060.69	\$70.20	\$371.60	\$20,689.09	\$17,953.39		
130 131	\$20,689.09 \$20,316.25	\$68.96 \$67.72	\$372.84 \$374.08	\$20,316.25 \$19,942.17	\$18,022.35 \$18,090.07		
132	\$19,942.17	\$66.47	\$375.33	\$19,942.17 \$19,566.84	\$18,156.55		
133	\$19,566.84	\$65.22	\$376.58	\$19,190.26	\$18,221.77		
134	\$19,190.26	\$63.97	\$377.83	\$18,812.43	\$18,285.74		
135	\$18,812.43	\$62.71	\$379.09	\$18,433.34	\$18,348.45		
136 137	\$18,433.34 \$18,052.98	\$61.44 \$60.18	\$380.36 \$381.62	\$18,052.98 \$17,671,36	\$18,409.89 \$18,470.07		
137 138	\$18,052.98 \$17,671.36	\$60.18 \$58.90	\$381.62 \$382.90	\$17,671.36 \$17,288.46	\$18,470.07 \$18,528.97		
139	\$17,288.46	\$57.63	\$384.17	\$16,904.29	\$18,586.60		
140	\$16,904.29	\$56.35	\$385.45	\$16,518.84	\$18,642.95		
141	\$16,518.84	\$55.06	\$386.74	\$16,132.10	\$18,698.01		
142	\$16,132.10 \$15,744.07	\$53.77	\$388.03	\$15,744.07 \$15,254,75	\$18,751.78 \$18,804.27		
143	\$15,744.07	\$52.48	\$389.32	\$15,354.75	\$18,804.27		

						D (Discount Factor) =	135.1921487
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$441.80
\$59,728.00	4.00%	15	\$441.80				
φ00,720.00	4.0070	10	ψττ1.00				
Manth	Otentin »Deleves	lu to uo o t	Drivelinel	Fu dia a Delea e e	Tatallutanaat		
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest		
144	\$15,354.75	\$51.18	\$390.62	\$14,964.13	\$18,855.45		
145	\$14,964.13	\$49.88	\$391.92	\$14,572.21	\$18,905.33		
146	\$14,572.21	\$48.57	\$393.23	\$14,178.98 \$12,784,45	\$18,953.90		
147	\$14,178.98	\$47.26	\$394.54	\$13,784.45	\$19,001.17		
148	\$13,784.45	\$45.95	\$395.85	\$13,388.59	\$19,047.11		
149	\$13,388.59	\$44.63	\$397.17	\$12,991.42	\$19,091.74		
150	\$12,991.42	\$43.30	\$398.50	\$12,592.93	\$19,135.05		
151	\$12,592.93	\$41.98	\$399.82	\$12,193.10	\$19,177.02		
152	\$12,193.10	\$40.64	\$401.16	\$11,791.94	\$19,217.67		
153	\$11,791.94	\$39.31	\$402.49	\$11,389.45	\$19,256.97		
154	\$11,389.45	\$37.96	\$403.84	\$10,985.61	\$19,294.94		
155	\$10,985.61	\$36.62	\$405.18	\$10,580.43	\$19,331.56		
156	\$10,580.43	\$35.27	\$406.53	\$10,173.90	\$19,366.83		
157	\$10,173.90	\$33.91	\$407.89	\$9,766.01	\$19,400.74		
158	\$9,766.01	\$32.55	\$409.25	\$9,356.76	\$19,433.29		
159	\$9,356.76	\$31.19	\$410.61	\$8,946.15	\$19,464.48		
160	\$8,946.15	\$29.82	\$411.98	\$8,534.17	\$19,494.30		
161	\$8,534.17	\$28.45	\$413.35	\$8,120.82	\$19,522.75		
162	\$8,120.82	\$27.07	\$414.73	\$7,706.09	\$19,549.82		
163	\$7,706.09	\$25.69	\$416.11	\$7,289.97	\$19,575.50		
164	\$7,289.97	\$24.30	\$417.50	\$6,872.47	\$19,599.80		
165	\$6,872.47	\$22.91	\$418.89	\$6,453.58	\$19,622.71		
166	\$6,453.58	\$21.51	\$420.29	\$6,033.29	\$19,644.22		
167	\$6,033.29	\$20.11	\$421.69	\$5,611.60	\$19,664.34		
168	\$5,611.60	\$18.71	\$423.10	\$5,188.51	\$19,683.04		
169	\$5,188.51	\$17.30	\$424.51	\$4,764.00	\$19,700.34		
170	\$4,764.00	\$15.88	\$425.92	\$4,338.08	\$19,716.22		
171	\$4,338.08	\$14.46	\$427.34	\$3,910.74	\$19,730.68		
172	\$3,910.74	\$13.04	\$428.77	\$3,481.97	\$19,743.71		
173	\$3,481.97	\$11.61	\$430.19	\$3,051.78	\$19,755.32		
174	\$3,051.78	\$10.17	\$431.63	\$2,620.15	\$19,765.49		
175	\$2,620.15	\$8.73	\$433.07	\$2,187.08	\$19,774.23		
176	\$2,187.08	\$7.29	\$434.51	\$1,752.57	\$19,781.52		
177	\$1,752.57	\$5.84	\$435.96	\$1,316.62	\$19,787.36		
178	\$1,316.62	\$4.39	\$437.41	\$879.20	\$19,791.75		
179	\$879.20	\$2.93	\$438.87	\$440.33	\$19,794.68		
180	\$440.33	\$1.47	\$440.33	\$0.00	\$19,796.14		

						D (Discount Factor) =	165.0218582
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$361.94
\$59,728.00	4.00%	20	\$361.94				
Month	StartingPalance	Interest	Dringing	EndingBolonco	Totollatoroot		
Month 1	StartingBalance \$59,728.00	Interest \$199.09	Principal \$162.85	EndingBalance \$59,565.15	TotalInterest \$199.09		
2	\$59,565.15	\$198.55	\$163.39	\$59,401.76	\$397.64		
3	\$59,401.76	\$198.01	\$163.93	\$59,237.83	\$595.65		
4	\$59,237.83	\$197.46	\$164.48	\$59,073.35	\$793.11		
5	\$59,073.35	\$196.91	\$165.03	\$58,908.32	\$990.02		
6	\$58,908.32	\$196.36	\$165.58	\$58,742.74	\$1,186.38		
7	\$58,742.74	\$195.81	\$166.13	\$58,576.61	\$1,382.19		
8	\$58,576.61	\$195.26	\$166.68	\$58,409.93	\$1,577.45		
9	\$58,409.93	\$194.70	\$167.24	\$58,242.69	\$1,772.15		
10	\$58,242.69	\$194.14	\$167.80	\$58,074.89	\$1,966.29		
11	\$58,074.89	\$193.58	\$168.36	\$57,906.53	\$2,159.87		
12	\$57,906.53	\$193.02	\$168.92	\$57,737.61	\$2,352.89		
13	\$57,737.61	\$192.46	\$169.48	\$57,568.13	\$2,545.35		
14	\$57,568.13	\$191.89	\$170.05	\$57,398.09	\$2,737.25		
15	\$57,398.09	\$191.33	\$170.61	\$57,227.47	\$2,928.57		
16	\$57,227.47	\$190.76	\$171.18	\$57,056.29	\$3,119.33		
17	\$57,056.29	\$190.19	\$171.75	\$56,884.54	\$3,309.52		
18	\$56,884.54 \$56,712.21	\$189.62	\$172.32	\$56,712.21	\$3,499.13 \$3,688.17		
19	\$56,712.21 \$56,530,32	\$189.04 \$188.46	\$172.90 \$172.48	\$56,539.32 \$56,365.84	\$3,688.17 \$3,876.64		
20 21	\$56,539.32 \$56,365.84	\$187.89	\$173.48 \$174.05	\$56,191.79	\$3,870.04 \$4,064.52		
21	\$56,191.79	\$187.31	\$174.63	\$56,017.15	\$4,251.83		
23	\$56,017.15	\$186.72	\$175.22	\$55,841.94	\$4,438.55		
24	\$55,841.94	\$186.14 \$185.55	\$175.80	\$55,666.14 \$55,480,75	\$4,624.69		
25 26	\$55,666.14 \$55,489.75	\$185.55 \$184.97	\$176.39 \$176.97	\$55,489.75 \$55,312.78	\$4,810.25 \$4,995.21		
27	\$55,312.78	\$184.38	\$177.56	\$55,135.21	\$5,179.59		
28	\$55,135.21	\$183.78	\$178.16	\$54,957.06	\$5,363.37		
29 30	\$54,957.06 \$54,778.31	\$183.19 \$182.59	\$178.75 \$179.35	\$54,778.31 \$54,598.96	\$5,546.56 \$5,729.16		
31	\$54,598.96	\$182.00	\$179.94	\$54,419.02	\$5,911.15		
32	\$54,419.02	\$181.40	\$180.54	\$54,238.47	\$6,092.55		
33 34	\$54,238.47 \$54,057.33	\$180.79 \$180.19	\$181.15 \$181.75	\$54,057.33 \$53,875.58	\$6,273.35 \$6,453.54		
35	\$53,875.58	\$179.59	\$182.35	\$53,693.22	\$6,633.12		
36	\$53,693.22	\$178.98	\$182.96	\$53,510.26	\$6,812.10		
37 38	\$53,510.26 \$53,326.69	\$178.37 \$177.76	\$183.57 \$184.18	\$53,326.69 \$53,142.51	\$6,990.47 \$7,168.22		
39	\$53,142.51	\$177.14	\$184.80	\$52,957.71	\$7,345.36		
40	\$52,957.71	\$176.53	\$185.41	\$52,772.29	\$7,521.89		
41	\$52,772.29	\$175.91	\$186.03	\$52,586.26	\$7,697.80 \$7,872.00		
42 43	\$52,586.26 \$52,399.61	\$175.29 \$174.67	\$186.65 \$187.27	\$52,399.61 \$52,212.33	\$7,873.09 \$8,047.75		
44	\$52,212.33	\$174.04	\$187.90	\$52,024.44	\$8,221.79		
45	\$52,024.44	\$173.41	\$188.53 \$180.15	\$51,835.91	\$8,395.21 \$8,567.00		
46 47	\$51,835.91 \$51,646.76	\$172.79 \$172.16	\$189.15 \$189.78	\$51,646.76 \$51,456.97	\$8,567.99 \$8,740.15		
48	\$51,456.97	\$171.52	\$190.42	\$51,266.56	\$8,911.67		
49	\$51,266.56	\$170.89	\$191.05	\$51,075.50	\$9,082.56		
50 51	\$51,075.50 \$50,883.82	\$170.25 \$169.61	\$191.69 \$192.33	\$50,883.82 \$50,691.49	\$9,252.81 \$9,422.43		
52	\$50,691.49	\$168.97	\$192.97	\$50,498.52	\$9,591.40		
53	\$50,498.52	\$168.33	\$193.61	\$50,304.91	\$9,759.73		
54 55	\$50,304.91 \$50,110.65	\$167.68 \$167.04	\$194.26 \$194.90	\$50,110.65 \$49,915.75	\$9,927.41 \$10,094.44		
56	\$49,915.75	\$166.39	\$195.55	\$49,720.19	\$10,260.83		
57	\$49,720.19	\$165.73	\$196.21	\$49,523.99	\$10,426.56		
58	\$49,523.99 \$40,227,12	\$165.08 \$164.42	\$196.86 \$107.52	\$49,327.13 \$40,120,61	\$10,591.64 \$10,756.07		
59 60	\$49,327.13 \$49,129.61	\$164.42 \$163.77	\$197.52 \$198.17	\$49,129.61 \$48,931.44	\$10,756.07 \$10,919.83		
61	\$48,931.44	\$163.10	\$198.84	\$48,732.60	\$11,082.94		
62	\$48,732.60	\$162.44	\$199.50	\$48,533.10	\$11,245.38		
63 64	\$48,533.10 \$48,332.94	\$161.78 \$161.11	\$200.16 \$200.83	\$48,332.94 \$48,132.11	\$11,407.16 \$11,568.27		
65	\$48,132.11	\$160.44	\$200.83	\$47,930.61	\$11,728.71		
66	\$47,930.61	\$159.77	\$202.17	\$47,728.44	\$11,888.48		
67 68	\$47,728.44 \$47,525.59	\$159.09 \$158.42	\$202.85 \$203.52	\$47,525.59 \$47,322.07	\$12,047.57 \$12,205.99		
69	\$47,325.59 \$47,322.07	\$150.42 \$157.74	\$203.52 \$204.20	\$47,322.07 \$47,117.87	\$12,205.99 \$12,363.73		

						D (Discount Factor) =	165 0019590
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	165.0218582 \$361.94
\$59,728.00	4.00%	20	\$361.94			P = A/D	\$301.94
ψ00,720.00	4.0070	20	4001.04				
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest		
70	\$47,117.87	\$157.06	\$204.88	\$46,912.99	\$12,520.79		
71	\$46,912.99	\$156.38	\$205.56	\$46,707.43	\$12,677.17		
72 73	\$46,707.43 \$46,501.18	\$155.69 \$155.00	\$206.25 \$206.94	\$46,501.18 \$46,294.25	\$12,832.86 \$12,987.86		
74	\$46,294.25	\$154.31	\$207.63	\$46,086.62	\$13,142.17		
75	\$46,086.62	\$153.62	\$208.32	\$45,878.30	\$13,295.80		
76	\$45,878.30	\$152.93	\$209.01	\$45,669.29	\$13,448.72		
77 78	\$45,669.29 \$45,459.58	\$152.23 \$151.53	\$209.71 \$210.41	\$45,459.58 \$45,249.17	\$13,600.96 \$13,752.49		
79	\$45,249.17	\$150.83	\$210.41	\$45,038.06	\$13,903.32		
80	\$45,038.06	\$150.13	\$211.81	\$44,826.25	\$14,053.45		
81	\$44,826.25	\$149.42	\$212.52	\$44,613.73	\$14,202.87		
82 83	\$44,613.73 \$44,400.50	\$148.71 \$148.00	\$213.23 \$213.94	\$44,400.50 \$44,186.57	\$14,351.58 \$14,499.58		
84	\$44,186.57	\$148.00	\$214.65	\$43,971.91	\$14,646.87		
85	\$43,971.91	\$146.57	\$215.37	\$43,756.55	\$14,793.44		
86	\$43,756.55	\$145.86	\$216.08	\$43,540.46	\$14,939.30		
87	\$43,540.46	\$145.13	\$216.81	\$43,323.66	\$15,084.43		
88 89	\$43,323.66 \$43,106.13	\$144.41 \$143.69	\$217.53 \$218.25	\$43,106.13 \$42,887.88	\$15,228.84 \$15,372.53		
90	\$42,887.88	\$142.96	\$218.98	\$42,668.90	\$15,515.49		
91	\$42,668.90	\$142.23	\$219.71	\$42,449.19	\$15,657.72		
92	\$42,449.19	\$141.50	\$220.44	\$42,228.74	\$15,799.22		
93 94	\$42,228.74 \$42,007.57	\$140.76 \$140.03	\$221.18 \$221.91	\$42,007.57 \$41,785.65	\$15,939.98 \$16,080.01		
94 95	\$41,785.65	\$139.29	\$222.65	\$41,563.00	\$16,219.29		
96	\$41,563.00	\$138.54	\$223.40	\$41,339.60	\$16,357.83		
97	\$41,339.60	\$137.80	\$224.14	\$41,115.46	\$16,495.63		
98	\$41,115.46 \$40,800,57	\$137.05	\$224.89	\$40,890.57	\$16,632.68		
99 100	\$40,890.57 \$40,664.93	\$136.30 \$135.55	\$225.64 \$226.39	\$40,664.93 \$40,438.54	\$16,768.99 \$16,904.54		
101	\$40,438.54	\$134.80	\$227.14	\$40,211.40	\$17,039.33		
102	\$40,211.40	\$134.04	\$227.90	\$39,983.50	\$17,173.37		
103	\$39,983.50 \$30,754,83	\$133.28	\$228.66	\$39,754.83	\$17,306.65		
104 105	\$39,754.83 \$39,525.41	\$132.52 \$131.75	\$229.42 \$230.19	\$39,525.41 \$39,295.22	\$17,439.16 \$17,570.91		
106	\$39,295.22	\$130.98	\$230.96	\$39,064.27	\$17,701.90		
107	\$39,064.27	\$130.21	\$231.73	\$38,832.54	\$17,832.11		
108	\$38,832.54	\$129.44	\$232.50	\$38,600.04	\$17,961.55		
109 110	\$38,600.04 \$38,366.77	\$128.67 \$127.89	\$233.27 \$234.05	\$38,366.77 \$38,132.72	\$18,090.22 \$18,218.11		
111	\$38,132.72	\$127.11	\$234.83	\$37,897.89	\$18,345.22		
112	\$37,897.89	\$126.33	\$235.61	\$37,662.27	\$18,471.55		
113	\$37,662.27	\$125.54	\$236.40	\$37,425.88	\$18,597.09		
114 115	\$37,425.88 \$37,188.69	\$124.75 \$123.96	\$237.19 \$237.98	\$37,188.69 \$36,950.71	\$18,721.84 \$18,845.80		
116	\$36,950.71	\$123.17	\$238.77	\$36,711.94	\$18,968.97		
117	\$36,711.94	\$122.37	\$239.57	\$36,472.37	\$19,091.34		
118	\$36,472.37	\$121.57	\$240.37	\$36,232.01	\$19,212.92		
119 120	\$36,232.01 \$35,990.84	\$120.77 \$119.97	\$241.17 \$241.97	\$35,990.84 \$35,748.87	\$19,333.69 \$19,453.66		
120	\$35,990.84 \$35,748.87	\$119.16	\$242.78	\$35,506.09	\$19,453.66 \$19,572.82		
122	\$35,506.09	\$118.35	\$243.59	\$35,262.51	\$19,691.18		
123	\$35,262.51	\$117.54	\$244.40	\$35,018.11	\$19,808.72		
124 125	\$35,018.11 \$34,772.90	\$116.73 \$115.91	\$245.21 \$246.03	\$34,772.90 \$34,526.87	\$19,925.45 \$20,041.36		
125	\$34,772.90 \$34,526.87	\$115.09	\$246.03 \$246.85	\$34,526.87 \$34,280.02	\$20,041.36 \$20,156.45		
127	\$34,280.02	\$114.27	\$247.67	\$34,032.34	\$20,270.71		
128	\$34,032.34	\$113.44	\$248.50	\$33,783.84	\$20,384.15		
129 130	\$33,783.84 \$33,534.52	\$112.61 \$111.78	\$249.33 \$250.16	\$33,534.52 \$33,284.36	\$20,496.77 \$20,608.55		
130	\$33,534.52 \$33,284.36	\$111.78 \$110.95	\$250.16 \$250.99	\$33,284.36 \$33,033.37	\$20,608.55 \$20,719.50		
132	\$33,033.37	\$110.11	\$251.83	\$32,781.54	\$20,829.61		
133	\$32,781.54	\$109.27	\$252.67	\$32,528.87	\$20,938.88		
134	\$32,528.87 \$32,275,26	\$108.43 \$107.58	\$253.51 \$254.26	\$32,275.36	\$21,047.31 \$21,154,80		
135 136	\$32,275.36 \$32,021.00	\$107.58 \$106.74	\$254.36 \$255.20	\$32,021.00 \$31,765.80	\$21,154.89 \$21,261.63		
137	\$31,765.80	\$105.89	\$256.05	\$31,509.75	\$21,367.52		
138	\$31,509.75	\$105.03	\$256.91	\$31,252.84	\$21,472.55		
139	\$31,252.84	\$104.18	\$257.76	\$30,995.07	\$21,576.73		
140 141	\$30,995.07 \$30,736.45	\$103.32 \$102.45	\$258.62 \$259.49	\$30,736.45 \$30,476.97	\$21,680.04 \$21,782.50		
141	\$30,476.97	\$101.59	\$260.35	\$30,216.62	\$21,884.09		
143	\$30,216.62	\$100.72	\$261.22	\$29,955.40	\$21,984.81		

Loss Artsoutt Interest Rats Time in Yaars Monthy Payment P = AD Sol 1.4 Month Size Size A Size Size							D (Discount Factor) =	165.0218582
Sec. 722.00 4.07% 20 Set 14 Month StartingBalance Interest Principal Collimiterest S22.054.66 144 S28.955.40 S28.955.40 S28.955.40 S22.054.66 144 S28.955.40 S28.955.40 S22.054.66 S22.054.66 147 S29.065.11 S26.257.00 S28.95.19 S22.475.30 148 S28.95.10 S58.46 S29.966.01 S22.275.753.06 151 S28.72.53.08 S57.77 S27.044.08 S22.075.75 152 S27.745.40.08 S51.88 S27.06 S22.247.53 S22.157.71 153 S27.745.40.08 S51.88 S27.06 S22.247.83 S23.153.69 156 S28.72.93.28 S27.74 S27.744.00 S23.04.64 S22.04.64 156 S28.72.73.04 S52.77 S27.474.00 S23.04.64 S22.04.64 157 S28.74.73.03 S24.04.72 S24.04.73.00 S23.04.64 S22.04.63 S23.04.64 158 S28.77.96 S84.60<	Loan Amount	Interest Rate	Term in Years	Monthly Payment			. ,	
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213\$9,660.41\$32.20\$329.74\$9,330.67\$26,695.87214\$9,330.67\$31.10\$330.84\$8,999.83\$26,726.98215\$8,999.83\$30.00\$331.94\$8,667.89\$26,756.98216\$8,667.89\$28.89\$333.05\$8,334.84\$26,785.87								
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216 \$8,667.89 \$28.89 \$333.05 \$8,334.84 \$26,785.87								
217 \$8,334.84 \$27.78 \$334.16 \$8,000.69 \$26,813.65	216	\$8,667.89	\$28.89	\$333.05	\$8,334.84	\$26,785.87		
	217	\$8,334.84	\$27.78	\$334.16	\$8,000.69	\$26,813.65		

						D (Discount Factor) =	165.0218582
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$361.94
\$59,728.00	4.00%	20	\$361.94				
				-			
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest		
218	\$8,000.69	\$26.67	\$335.27	\$7,665.42	\$26,840.32		
219	\$7,665.42	\$25.55	\$336.39	\$7,329.03	\$26,865.87		
220	\$7,329.03	\$24.43	\$337.51	\$6,991.52	\$26,890.30		
221	\$6,991.52	\$23.31	\$338.63	\$6,652.88	\$26,913.61		
222	\$6,652.88	\$22.18	\$339.76	\$6,313.12	\$26,935.78		
223	\$6,313.12	\$21.04	\$340.90	\$5,972.22	\$26,956.83		
224	\$5,972.22	\$19.91	\$342.03	\$5,630.19	\$26,976.73		
225	\$5,630.19	\$18.77	\$343.17	\$5,287.02	\$26,995.50		
226	\$5,287.02	\$17.62	\$344.32	\$4,942.70	\$27,013.13		
227	\$4,942.70	\$16.48	\$345.46	\$4,597.24	\$27,029.60		
228	\$4,597.24	\$15.32	\$346.62	\$4,250.62	\$27,044.92		
229	\$4,250.62	\$14.17	\$347.77	\$3,902.85	\$27,059.09		
230	\$3,902.85	\$13.01	\$348.93	\$3,553.92	\$27,072.10		
231	\$3,553.92	\$11.85	\$350.09	\$3,203.83	\$27,083.95		
232	\$3,203.83	\$10.68	\$351.26	\$2,852.56	\$27,094.63		
233	\$2,852.56	\$9.51	\$352.43	\$2,500.13	\$27,104.14		
234	\$2,500.13	\$8.33	\$353.61	\$2,146.53	\$27,112.47		
235	\$2,146.53	\$7.16	\$354.78	\$1,791.74	\$27,119.63		
236	\$1,791.74	\$5.97	\$355.97	\$1,435.78	\$27,125.60		
237	\$1,435.78	\$4.79	\$357.15	\$1,078.62	\$27,130.38		
238	\$1,078.62	\$3.60	\$358.34	\$720.28	\$27,133.98		
239	\$720.28	\$2.40	\$359.54	\$360.74	\$27,136.38		
240	\$360.74	\$1.20	\$360.74	\$0.00	\$27,137.58		

						D (Discount Factor) =	98.77017486
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$526.71
\$52,023.00	4.00%	10	\$526.71				
 //							
Month	Starting Balance	Interest	Principal	Ending Balance	Total Interest		
1 2	\$52,023.00 \$51,660,70	\$173.41 \$172.22	\$353.30	\$51,669.70 \$51,315.23	\$173.41 \$245.64		
3	\$51,669.70 \$51,315.23	\$172.23 \$171.05	\$354.48 \$355.66	\$50,959.57	\$345.64 \$516.69		
4	\$50,959.57	\$169.87	\$356.84	\$50,602.73	\$686.56		
5	\$50,602.73	\$168.68	\$358.03	\$50,244.70	\$855.23		
6	\$50,244.70	\$167.48	\$359.23	\$49,885.47	\$1,022.72		
7	\$49,885.47	\$166.28	\$360.42	\$49,525.05	\$1,189.00		
8	\$49,525.05	\$165.08	\$361.62	\$49,163.42	\$1,354.08		
9	\$49,163.42	\$163.88	\$362.83	\$48,800.59	\$1,517.96		
10	\$48,800.59	\$162.67	\$364.04	\$48,436.56	\$1,680.63		
11	\$48,436.56	\$161.46	\$365.25	\$48,071.30	\$1,842.09		
12	\$48,071.30	\$160.24	\$366.47	\$47,704.83	\$2,002.32		
13	\$47,704.83	\$159.02	\$367.69	\$47,337.14	\$2,161.34		
14	\$47,337.14	\$157.79	\$368.92	\$46,968.22	\$2,319.13		
15	\$46,968.22	\$156.56	\$370.15	\$46,598.08	\$2,475.69		
16	\$46,598.08	\$155.33	\$371.38	\$46,226.70	\$2,631.02		
17	\$46,226.70	\$154.09	\$372.62	\$45,854.08	\$2,785.11		
18	\$45,854.08	\$152.85	\$373.86	\$45,480.22	\$2,937.95		
19	\$45,480.22	\$151.60	\$375.11	\$45,105.11	\$3,089.56		
20	\$45,105.11	\$150.35	\$376.36	\$44,728.75	\$3,239.91		
21 22	\$44,728.75 \$44,351.14	\$149.10 \$147.84	\$377.61 \$378.87	\$44,351.14 \$43,972.27	\$3,389.00 \$3,536.84		
23	\$43,972.27	\$146.57	\$380.13	\$43,592.14	\$3,683.41		
24	\$43,592.14	\$145.31	\$381.40	\$43,210.74	\$3,828.72		
25 26	\$43,210.74 \$42,828.07	\$144.04 \$142.76	\$382.67 \$383.95	\$42,828.07 \$42,444.12	\$3,972.76 \$4,115.52		
20	\$42,444.12	\$141.48	\$385.23	\$42,058.89	\$4,257.00		
28	\$42,058.89	\$140.20	\$386.51	\$41,672.38	\$4,397.19		
29 30	\$41,672.38 \$41,284.58	\$138.91 \$137.62	\$387.80 \$389.09	\$41,284.58 \$40,895.49	\$4,536.10 \$4,673.72		
30	\$40,895.49	\$136.32	\$390.39	\$40,505.10	\$4,810.03		
32	\$40,505.10	\$135.02	\$391.69	\$40,113.41	\$4,945.05		
33	\$40,113.41 \$39,720.41	\$133.71	\$393.00	\$39,720.41	\$5,078.76 \$5,011.16		
34 35	\$39,720.41 \$39,326.11	\$132.40 \$131.09	\$394.31 \$395.62	\$39,326.11 \$38,930.49	\$5,211.16 \$5,342.25		
36	\$38,930.49	\$129.77	\$396.94	\$38,533.55	\$5,472.02		
37	\$38,533.55	\$128.45	\$398.26	\$38,135.28	\$5,600.46		
38 39	\$38,135.28 \$37,735.69	\$127.12 \$125.79	\$399.59 \$400.92	\$37,735.69 \$37,334.77	\$5,727.58 \$5,853.37		
40	\$37,334.77	\$124.45	\$402.26	\$36,932.51	\$5,977.82		
41	\$36,932.51	\$123.11	\$403.60	\$36,528.91	\$6,100.93		
42 43	\$36,528.91 \$36,123.97	\$121.76 \$120.41	\$404.94 \$406.29	\$36,123.97 \$35,717.68	\$6,222.69 \$6,343.10		
40	\$35,717.68	\$119.06	\$407.65	\$35,310.03	\$6,462.16		
45	\$35,310.03	\$117.70	\$409.01	\$34,901.02	\$6,579.86		
46 47	\$34,901.02 \$34,490.65	\$116.34 \$114.97	\$410.37 \$411.74	\$34,490.65 \$34,078.91	\$6,696.20 \$6,811.17		
47 48	\$34,078.91	\$113.60	\$413.11	\$33,665.80	\$6,924.76		
49	\$33,665.80	\$112.22	\$414.49	\$33,251.31	\$7,036.98		
50 51	\$33,251.31 \$32,835.44	\$110.84 \$109.45	\$415.87 \$417.26	\$32,835.44 \$32,418.18	\$7,147.82 \$7,257.27		
51	\$32,835.44 \$32,418.18	\$109.45 \$108.06	\$417.26 \$418.65	\$32,418.18 \$31,999.54	\$7,365.33		
53	\$31,999.54	\$106.67	\$420.04	\$31,579.49	\$7,472.00		
54 55	\$31,579.49	\$105.26 \$103.86	\$421.44	\$31,158.05	\$7,577.26 \$7,681.12		
55	\$31,158.05 \$30,735.20	\$103.86 \$102.45	\$422.85 \$424.26	\$30,735.20 \$30,310.95	\$7,681.12 \$7,783.57		
57	\$30,310.95	\$101.04	\$425.67	\$29,885.28	\$7,884.61		
58	\$29,885.28	\$99.62 \$98.40	\$427.09	\$29,458.19 \$20,020,67	\$7,984.23		
59 60	\$29,458.19 \$29,029.67	\$98.19 \$96.77	\$428.51 \$429.94	\$29,029.67 \$28,599.73	\$8,082.42 \$8,179.19		
61	\$28,599.73	\$95.33	\$431.38	\$28,168.36	\$8,274.52		
62	\$28,168.36	\$93.89	\$432.81	\$27,735.54	\$8,368.41		
63 64	\$27,735.54 \$27,301.29	\$92.45 \$91.00	\$434.26 \$435.70	\$27,301.29 \$26,865.58	\$8,460.87 \$8,551.87		
65	\$26,865.58	\$89.55	\$437.16	\$26,428.43	\$8,641.42		
66	\$26,428.43	\$88.09	\$438.61	\$25,989.82	\$8,729.52		
67 68	\$25,989.82 \$25,549,74	\$86.63 \$85.17	\$440.07 \$441.54	\$25,549.74 \$25,108,20	\$8,816.15 \$8,001.31		
68 69	\$25,549.74 \$25,108.20	\$85.17 \$83.69	\$441.54 \$443.01	\$25,108.20 \$24,665.19	\$8,901.31 \$8,985.01		
	+_0,.00. <u>_</u> 0	+00.00	÷.10101				

						D (Discount Factor) =	98.77017486
	laters of Data	Tana in Maan	Mandhila Daamaant			````	
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$526.71
\$52,023.00	4.00%	10	\$526.71				
Month	Starting Balance	Interest	Principal	Ending Balance	Total Interest		
70	\$24,665.19	\$82.22	\$444.49	\$24,220.70	\$9,067.23		
71	\$24,220.70	\$80.74	\$445.97	\$23,774.72	\$9,147.96		
72	\$23,774.72	\$79.25	\$447.46	\$23,327.26	\$9,227.21		
73	\$23,327.26	\$77.76	\$448.95	\$22,878.31	\$9,304.97		
74	\$22,878.31	\$76.26	\$450.45	\$22,427.87	\$9,381.23		
75	\$22,427.87	\$74.76 \$72.25	\$451.95 \$452.45	\$21,975.92	\$9,455.99 \$0,520.24		
76 77	\$21,975.92 \$21,522,47	\$73.25 \$71.74	\$453.45 \$454.07	\$21,522.47 \$21,067,50	\$9,529.24 \$0,600.08		
77	\$21,522.47	\$71.74 \$70.22	\$454.97 \$456.48	\$21,067.50 \$20,611,02	\$9,600.98 \$0,671.21		
78 79	\$21,067.50 \$20,611.02	\$70.22 \$68.70	\$456.48 \$458.00	\$20,611.02 \$20,153.01	\$9,671.21 \$9,739.91		
80	\$20,153.01	\$67.18	\$459.53	\$19,693.48	\$9,807.09		
81	\$19,693.48	\$65.64	\$461.06	\$19,232.42	\$9,872.73		
82	\$19,232.42	\$64.11	\$462.60	\$18,769.82	\$9,936.84		
83	\$18,769.82	\$62.57	\$464.14	\$18,305.68	\$9,999.41		
84	\$18,305.68	\$61.02	\$465.69	\$17,839.99	\$10,060.43		
85	\$17,839.99	\$59.47	\$467.24	\$17,372.75	\$10,119.89		
86	\$17,372.75	\$57.91	\$468.80	\$16,903.95	\$10,177.80		
87	\$16,903.95	\$56.35	\$470.36	\$16,433.59	\$10,234.15		
88	\$16,433.59	\$54.78	\$471.93	\$15,961.66	\$10,288.93		
89	\$15,961.66	\$53.21	\$473.50	\$15,488.16	\$10,342.13		
90	\$15,488.16	\$51.63	\$475.08	\$15,013.08	\$10,393.76		
91	\$15,013.08	\$50.04	\$476.66	\$14,536.41	\$10,443.80		
92	\$14,536.41	\$48.45	\$478.25	\$14,058.16	\$10,492.26		
93	\$14,058.16	\$46.86	\$479.85	\$13,578.31	\$10,539.12		
94	\$13,578.31	\$45.26	\$481.45	\$13,096.87	\$10,584.38		
95	\$13,096.87	\$43.66	\$483.05	\$12,613.82	\$10,628.04		
96	\$12,613.82	\$42.05	\$484.66	\$12,129.15	\$10,670.08		
97	\$12,129.15	\$40.43	\$486.28	\$11,642.88	\$10,710.51		
98	\$11,642.88	\$38.81	\$487.90	\$11,154.98	\$10,749.32		
99	\$11,154.98	\$37.18	\$489.52	\$10,665.45	\$10,786.51		
100	\$10,665.45	\$35.55	\$491.16	\$10,174.30	\$10,822.06		
101	\$10,174.30	\$33.91	\$492.79	\$9,681.51	\$10,855.97		
102	\$9,681.51	\$32.27	\$494.44	\$9,187.07	\$10,888.24		
103	\$9,187.07	\$30.62	\$496.08	\$8,690.99	\$10,918.87		
104	\$8,690.99	\$28.97	\$497.74	\$8,193.25	\$10,947.84		
105	\$8,193.25	\$27.31	\$499.40	\$7,693.85	\$10,975.15		
106	\$7,693.85	\$25.65	\$501.06	\$7,192.79	\$11,000.79		
107	\$7,192.79	\$23.98	\$502.73	\$6,690.06	\$11,024.77		
108	\$6,690.06	\$22.30	\$504.41	\$6,185.65	\$11,047.07		
109	\$6,185.65	\$20.62	\$506.09	\$5,679.56	\$11,067.69		
110	\$5,679.56	\$18.93	\$507.78	\$5,171.79	\$11,086.62		
111	\$5,171.79	\$17.24	\$509.47	\$4,662.32	\$11,103.86		
112	\$4,662.32	\$15.54	\$511.17	\$4,151.15	\$11,119.40		
113	\$4,151.15	\$13.84	\$512.87	\$3,638.28	\$11,133.24		
114	\$3,638.28	\$12.13	\$514.58	\$3,123.70	\$11,145.37		
115	\$3,123.70	\$10.41	\$516.30	\$2,607.41	\$11,155.78		
116	\$2,607.41	\$8.69	\$518.02	\$2,089.39	\$11,164.47		
117	\$2,089.39	\$6.96	\$519.74	\$1,569.65	\$11,171.43		
118	\$1,569.65	\$5.23	\$521.48	\$1,048.17	\$11,176.67		
119	\$1,048.17	\$3.49	\$523.21	\$524.96	\$11,180.16		
120	\$524.96	\$1.75	\$524.96	\$0.00	\$11,181.91		

						D (Discount Factor) =	135.1921487
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$384.81
\$52,023.00	4.00%	15	\$384.81				
•• //							
Month	Starting Balance	Interest \$173.41	Principal	Ending Balance	Contract Interest		
2	\$52,023.00 \$51,811.60	\$172.71	\$211.40 \$212.10	\$51,811.60 \$51,599.50	\$173.41 \$346.12		
3	\$51,599.50	\$172.00	\$212.81	\$51,386.69	\$540.12 \$518.11		
4	\$51,386.69	\$171.29	\$213.52	\$51,173.17	\$689.40		
5	\$51,173.17	\$170.58	\$214.23	\$50,958.94	\$859.98		
6	\$50,958.94	\$169.86	\$214.94	\$50,744.00	\$1,029.84		
7	\$50,744.00	\$169.15	\$215.66	\$50,528.33	\$1,198.99		
8	\$50,528.33	\$168.43	\$216.38	\$50,311.95	\$1,367.42		
9	\$50,311.95	\$167.71	\$217.10	\$50,094.85	\$1,535.12		
10	\$50,094.85	\$166.98	\$217.83	\$49,877.03	\$1,702.11		
11	\$49,877.03	\$166.26	\$218.55	\$49,658.48	\$1,868.36		
12	\$49,658.48	\$165.53	\$219.28	\$49,439.20	\$2,033.89		
13	\$49,439.20	\$164.80	\$220.01	\$49,219.19	\$2,198.69		
14	\$49,219.19	\$164.06	\$220.74	\$48,998.44	\$2,362.75		
15	\$48,998.44	\$163.33	\$221.48	\$48,776.96	\$2,526.08		
16	\$48,776.96	\$162.59	\$222.22	\$48,554.75	\$2,688.67		
17	\$48,554.75	\$161.85	\$222.96	\$48,331.79	\$2,850.52		
18	\$48,331.79	\$161.11	\$223.70	\$48,108.08	\$3,011.63		
19	\$48,108.08	\$160.36	\$224.45	\$47,883.64	\$3,171.99		
20	\$47,883.64	\$159.61	\$225.20	\$47,658.44	\$3,331.60		
21	\$47,658.44	\$158.86	\$225.95	\$47,432.50	\$3,490.46		
22 23	\$47,432.50 \$47,205.80	\$158.11 \$157.35	\$226.70 \$227.46	\$47,205.80 \$46,978.34	\$3,648.57 \$3,805.92		
24	\$46,978.34	\$156.59	\$228.21	\$46,750.13	\$3,962.52		
25	\$46,750.13	\$155.83	\$228.97	\$46,521.15	\$4,118.35		
26 27	\$46,521.15 \$46,291.42	\$155.07 \$154.30	\$229.74 \$230.50	\$46,291.42 \$46,060.91	\$4,273.42 \$4,427.72		
28	\$46,060.91	\$153.54	\$230.30	\$45,829.64	\$4,581.26		
29	\$45,829.64	\$152.77	\$232.04	\$45,597.60	\$4,734.03		
30	\$45,597.60	\$151.99	\$232.82	\$45,364.78	\$4,886.02		
31 32	\$45,364.78 \$45,131.19	\$151.22 \$150.44	\$233.59 \$234.37	\$45,131.19 \$44,896.82	\$5,037.23 \$5,187.67		
33	\$44,896.82	\$149.66	\$235.15	\$44,661.67	\$5,337.33		
34	\$44,661.67	\$148.87	\$235.94	\$44,425.73	\$5,486.20		
35 36	\$44,425.73 \$44,189.01	\$148.09 \$147.30	\$236.72 \$237.51	\$44,189.01 \$43,951.50	\$5,634.29 \$5,781.58		
37	\$43,951.50	\$146.50	\$238.30	\$43,713.20	\$5,928.09		
38	\$43,713.20	\$145.71	\$239.10	\$43,474.10	\$6,073.80		
39	\$43,474.10	\$144.91	\$239.89	\$43,234.21	\$6,218.71		
40 41	\$43,234.21 \$42,993.51	\$144.11 \$143.31	\$240.69 \$241.50	\$42,993.51 \$42,752.02	\$6,362.83 \$6,506.14		
42	\$42,752.02	\$142.51	\$242.30	\$42,509.71	\$6,648.64		
43	\$42,509.71	\$141.70	\$243.11	\$42,266.61	\$6,790.34		
44 45	\$42,266.61 \$42,022.69	\$140.89 \$140.08	\$243.92 \$244.73	\$42,022.69 \$41,777.95	\$6,931.23 \$7,071.31		
45	\$41,777.95	\$139.26	\$245.55	\$41,532.41	\$7,210.57		
47	\$41,532.41	\$138.44	\$246.37	\$41,286.04	\$7,349.01		
48	\$41,286.04	\$137.62	\$247.19	\$41,038.85 \$40,700,84	\$7,486.63		
49 50	\$41,038.85 \$40,790.84	\$136.80 \$135.97	\$248.01 \$248.84	\$40,790.84 \$40,542.00	\$7,623.43 \$7,759.39		
51	\$40,542.00	\$135.14	\$249.67	\$40,292.33	\$7,894.53		
52	\$40,292.33	\$134.31	\$250.50	\$40,041.83	\$8,028.84		
53 54	\$40,041.83 \$39,790.50	\$133.47 \$132.63	\$251.34 \$252.17	\$39,790.50 \$30,538,33	\$8,162.32 \$8,294.95		
55	\$39,538.33	\$131.79	\$253.01	\$39,538.33 \$39,285.31	\$8,426.74		
56	\$39,285.31	\$130.95	\$253.86	\$39,031.46	\$8,557.70		
57	\$39,031.46	\$130.10	\$254.70	\$38,776.75	\$8,687.80		
58 59	\$38,776.75 \$38,521.20	\$129.26 \$128.40	\$255.55 \$256.40	\$38,521.20 \$38,264.80	\$8,817.06 \$8,945.46		
60	\$38,264.80	\$127.55	\$257.26	\$38,007.54	\$9,073.01		
61	\$38,007.54	\$126.69	\$258.12	\$37,749.42	\$9,199.70		
62 63	\$37,749.42 \$37,400,45	\$125.83 \$124.07	\$258.98 \$250.84	\$37,490.45 \$37,230,61	\$9,325.53 \$9,450.50		
63 64	\$37,490.45 \$37,230.61	\$124.97 \$124.10	\$259.84 \$260.71	\$37,230.61 \$36,969.90	\$9,450.50 \$9,574.60		
65	\$36,969.90	\$123.23	\$261.57	\$36,708.33	\$9,697.84		
66	\$36,708.33	\$122.36	\$262.45	\$36,445.88	\$9,820.20		
67 68	\$36,445.88 \$36,182.56	\$121.49 \$120.61	\$263.32 \$264.20	\$36,182.56 \$35,918.36	\$9,941.68 \$10,062.29		
69	\$35,918.36	\$120.01	\$265.08	\$35,653.28	\$10,182.02		

						D (Discount Factor) =	135.1921487
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$384.81
\$52,023.00	4.00%	15	\$384.81				
Month 70	Starting Balance \$35,653.28	Interest \$118.84	Principal \$265.96	Ending Balance \$35,387.31	Total Interest \$10,300.86		
71	\$35,387.31	\$117.96	\$266.85	\$35,120.46	\$10,418.82		
72	\$35,120.46	\$117.07	\$267.74	\$34,852.72	\$10,535.89		
73	\$34,852.72	\$116.18	\$268.63	\$34,584.09	\$10,652.07		
74 75	\$34,584.09 \$34,314.57	\$115.28 \$114.38	\$269.53 \$270.43	\$34,314.57 \$34,044.14	\$10,767.35 \$10,881.73		
76	\$34,044.14	\$113.48	\$270.43	\$33,772.81	\$10,995.21		
77	\$33,772.81	\$112.58	\$272.23	\$33,500.58	\$11,107.78		
78	\$33,500.58	\$111.67	\$273.14	\$33,227.44	\$11,219.45		
79	\$33,227.44	\$110.76	\$274.05	\$32,953.39	\$11,330.21		
80 81	\$32,953.39 \$32,678.43	\$109.84 \$108.93	\$274.96 \$275.88	\$32,678.43 \$32,402.55	\$11,440.06 \$11,548.98		
82	\$32,402.55	\$108.01	\$276.80	\$32,125.75	\$11,656.99		
83	\$32,125.75	\$107.09	\$277.72	\$31,848.03	\$11,764.08		
84	\$31,848.03	\$106.16	\$278.65	\$31,569.38	\$11,870.24		
85	\$31,569.38	\$105.23	\$279.58	\$31,289.80	\$11,975.47		
86	\$31,289.80	\$104.30	\$280.51	\$31,009.29 \$30,727,85	\$12,079.77		
87 88	\$31,009.29 \$30,727.85	\$103.36 \$102.43	\$281.44 \$282.38	\$30,727.85 \$30,445.47	\$12,183.13 \$12,285.56		
89	\$30,445.47	\$101.48	\$283.32	\$30,162.15	\$12,387.04		
90	\$30,162.15	\$100.54	\$284.27	\$29,877.88	\$12,487.58		
91	\$29,877.88	\$99.59	\$285.21	\$29,592.66	\$12,587.18		
92	\$29,592.66	\$98.64	\$286.17	\$29,306.50	\$12,685.82		
93	\$29,306.50	\$97.69 \$06.72	\$287.12	\$29,019.38	\$12,783.51		
94 95	\$29,019.38 \$28,731.30	\$96.73 \$95.77	\$288.08 \$289.04	\$28,731.30 \$28,442.26	\$12,880.24 \$12,976.01		
96	\$28,442.26	\$94.81	\$290.00	\$28,152.26	\$13,070.82		
97	\$28,152.26	\$93.84	\$290.97	\$27,861.30	\$13,164.66		
98	\$27,861.30	\$92.87	\$291.94	\$27,569.36	\$13,257.53		
99	\$27,569.36	\$91.90	\$292.91	\$27,276.45	\$13,349.43		
100 101	\$27,276.45 \$26,982.56	\$90.92 \$89.94	\$293.89 \$294.87	\$26,982.56 \$26,687.70	\$13,440.35 \$13,530.29		
102	\$26,687.70	\$88.96	\$295.85	\$26,391.85	\$13,619.25		
103	\$26,391.85	\$87.97	\$296.84	\$26,095.01	\$13,707.22		
104	\$26,095.01	\$86.98	\$297.82	\$25,797.19	\$13,794.21		
105	\$25,797.19	\$85.99	\$298.82	\$25,498.37	\$13,880.20		
106	\$25,498.37 \$25,408.56	\$84.99 \$84.00	\$299.81	\$25,198.56	\$13,965.19 \$14,040,10		
107 108	\$25,198.56 \$24,897.75	\$84.00 \$82.99	\$300.81 \$301.82	\$24,897.75 \$24,595.93	\$14,049.19 \$14,132.18		
109	\$24,595.93	\$81.99	\$302.82	\$24,293.11	\$14,214.17		
110	\$24,293.11	\$80.98	\$303.83	\$23,989.28	\$14,295.14		
111	\$23,989.28	\$79.96	\$304.84	\$23,684.44	\$14,375.11		
112 113	\$23,684.44	\$78.95 \$77.02	\$305.86	\$23,378.58 \$22,071,70	\$14,454.06		
113	\$23,378.58 \$23,071.70	\$77.93 \$76.91	\$306.88 \$307.90	\$23,071.70 \$22,763.79	\$14,531.98 \$14,608.89		
115	\$22,763.79	\$75.88	\$308.93	\$22,454.87	\$14,684.77		
116	\$22,454.87	\$74.85	\$309.96	\$22,144.91	\$14,759.62		
117	\$22,144.91	\$73.82	\$310.99	\$21,833.92	\$14,833.43		
118	\$21,833.92	\$72.78	\$312.03	\$21,521.89	\$14,906.21		
119 120	\$21,521.89 \$21,208.82	\$71.74 \$70.70	\$313.07 \$314.11	\$21,208.82 \$20,894.71	\$14,977.95 \$15,048.65		
120	\$20,894.71	\$69.65	\$315.16	\$20,579.55	\$15,048.05 \$15,118.30		
122	\$20,579.55	\$68.60	\$316.21	\$20,263.34	\$15,186.90		
123	\$20,263.34	\$67.54	\$317.26	\$19,946.08	\$15,254.44		
124	\$19,946.08	\$66.49 \$65.42	\$318.32	\$19,627.76	\$15,320.93 \$15,320.95		
125 126	\$19,627.76 \$19,308.37	\$65.43 \$64.36	\$319.38 \$320.45	\$19,308.37 \$18,987.93	\$15,386.35 \$15,450.72		
120	\$18,987.93	\$63.29	\$320.45	\$18,666.41	\$15,514.01		
128	\$18,666.41	\$62.22	\$322.59	\$18,343.83	\$15,576.23		
129	\$18,343.83	\$61.15	\$323.66	\$18,020.16	\$15,637.38		
130	\$18,020.16	\$60.07 \$50.08	\$324.74	\$17,695.42	\$15,697.44 \$15,756,42		
131 132	\$17,695.42 \$17,369.60	\$58.98 \$57.90	\$325.82 \$326.91	\$17,369.60 \$17,042.69	\$15,756.43 \$15,814.33		
132	\$17,042.69	\$56.81	\$328.00	\$17,042.69 \$16,714.69	\$15,871.14 \$15,871.14		
134	\$16,714.69	\$55.72	\$329.09	\$16,385.60	\$15,926.85		
135	\$16,385.60	\$54.62	\$330.19	\$16,055.41	\$15,981.47		
136	\$16,055.41	\$53.52	\$331.29	\$15,724.12	\$16,034.99		
137	\$15,724.12 \$15,201,73	\$52.41 \$51.31	\$332.39 \$333.50	\$15,391.73 \$15,058,22	\$16,087.40 \$16,138,71		
138 139	\$15,391.73 \$15,058.22	\$51.31 \$50.19	\$333.50 \$334.61	\$15,058.22 \$14,723.61	\$16,138.71 \$16,188.90		
140	\$14,723.61	\$49.08	\$335.73	\$14,387.88	\$16,237.98		
141	\$14,387.88	\$47.96	\$336.85	\$14,051.03	\$16,285.94		
142	\$14,051.03	\$46.84	\$337.97	\$13,713.06	\$16,332.78		
143	\$13,713.06	\$45.71	\$339.10	\$13,373.96	\$16,378.49		

						D (Discount Factor) =	135.1921487
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$384.81
\$52,023.00	4.00%	15	\$384.81				
Month	Starting Balance	Interest	Principal	Ending Balance	Total Interest		
144	\$13,373.96	\$44.58	\$340.23	\$13,033.74	\$16,423.07		
145	\$13,033.74	\$43.45	\$341.36	\$12,692.37	\$16,466.51		
146	\$12,692.37	\$42.31	\$342.50	\$12,349.87	\$16,508.82		
147	\$12,349.87	\$41.17	\$343.64	\$12,006.23	\$16,549.99		
148	\$12,006.23	\$40.02	\$344.79	\$11,661.45	\$16,590.01		
149	\$11,661.45	\$38.87	\$345.94	\$11,315.51	\$16,628.88		
150	\$11,315.51	\$37.72	\$347.09	\$10,968.42	\$16,666.60		
151	\$10,968.42	\$36.56	\$348.25	\$10,620.17	\$16,703.16		
152	\$10,620.17	\$35.40	\$349.41	\$10,270.77	\$16,738.56		
153	\$10,270.77	\$34.24	\$350.57	\$9,920.19	\$16,772.80		
154	\$9,920.19	\$33.07	\$351.74	\$9,568.45	\$16,805.86		
155	\$9,568.45	\$31.89	\$352.91	\$9,215.54	\$16,837.76		
156	\$9,215.54	\$30.72	\$354.09	\$8,861.45	\$16,868.48		
157	\$8,861.45	\$29.54	\$355.27	\$8,506.18	\$16,898.01		
158	\$8,506.18	\$28.35	\$356.45	\$8,149.73	\$16,926.37		
159	\$8,149.73	\$27.17	\$357.64	\$7,792.09	\$16,953.53		
160	\$7,792.09	\$25.97	\$358.83	\$7,433.25	\$16,979.51		
161	\$7,433.25	\$24.78	\$360.03	\$7,073.22	\$17,004.29		
162	\$7,073.22	\$23.58	\$361.23	\$6,711.99	\$17,027.86		
163	\$6,711.99	\$22.37	\$362.43	\$6,349.56	\$17,050.24		
164	\$6,349.56	\$21.17	\$363.64	\$5,985.91	\$17,071.40		
165	\$5,985.91	\$19.95	\$364.85	\$5,621.06	\$17,091.35		
166	\$5,621.06	\$18.74	\$366.07	\$5,254.99	\$17,110.09		
167	\$5,254.99	\$17.52	\$367.29	\$4,887.70	\$17,127.61		
168	\$4,887.70	\$16.29	\$368.52	\$4,519.18	\$17,143.90		
169	\$4,519.18	\$15.06	\$369.74	\$4,149.44	\$17,158.96		
170	\$4,149.44	\$13.83	\$370.98	\$3,778.46	\$17,172.80		
171	\$3,778.46	\$12.59	\$372.21	\$3,406.25	\$17,185.39		
172	\$3,406.25	\$11.35	\$373.45	\$3,032.79	\$17,196.74		
173	\$3,032.79	\$10.11	\$374.70	\$2,658.10	\$17,206.85		
174	\$2,658.10	\$8.86	\$375.95	\$2,282.15	\$17,215.71		
175	\$2,282.15	\$7.61	\$377.20	\$1,904.95	\$17,223.32		
176	\$1,904.95	\$6.35	\$378.46	\$1,526.49	\$17,229.67		
177	\$1,526.49	\$5.09	\$379.72	\$1,146.77	\$17,234.76		
178	\$1,146.77	\$3.82	\$380.99	\$765.78	\$17,238.58		
179	\$765.78	\$2.55	\$382.26	\$383.53	\$17,241.13		
180	\$383.53	\$1.28	\$383.53	\$0.00	\$17,242.41		

						D (Discount Factor) =	165.0218582
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$315.25
\$52,023.00	4.00%	20	\$315.25				
Month	StartingBalance	Interest	Dringing	EndingBolonco	Totollatoroot		
Month 1	StartingBalance \$52,023.00	Interest \$173.41	Principal \$141.84	EndingBalance \$51,881.16	TotalInterest \$173.41		
2	\$51,881.16	\$172.94	\$141.34	\$51,738.85	\$346.35		
3	\$51,738.85	\$172.46	\$142.79	\$51,596.06	\$518.81		
4	\$51,596.06	\$171.99	\$143.26	\$51,452.80	\$690.80		
5	\$51,452.80	\$171.51	\$143.74	\$51,309.06	\$862.31		
6	\$51,309.06	\$171.03	\$144.22	\$51,164.84	\$1,033.34		
7	\$51,164.84	\$170.55	\$144.70	\$51,020.14	\$1,203.89		
8	\$51,020.14	\$170.07	\$145.18	\$50,874.96	\$1,373.95		
9	\$50,874.96	\$169.58	\$145.67	\$50,729.29	\$1,543.54		
10	\$50,729.29	\$169.10	\$146.15	\$50,583.14	\$1,712.63		
11	\$50,583.14	\$168.61	\$146.64	\$50,436.50	\$1,881.24		
12	\$50,436.50	\$168.12	\$147.13	\$50,289.38	\$2,049.37		
13	\$50,289.38	\$167.63	\$147.62	\$50,141.76	\$2,217.00		
14	\$50,141.76	\$167.14	\$148.11	\$49,993.65	\$2,384.14		
15	\$49,993.65	\$166.65	\$148.60	\$49,845.04	\$2,550.78		
16	\$49,845.04	\$166.15	\$149.10	\$49,695.95	\$2,716.93		
17	\$49,695.95	\$165.65	\$149.60	\$49,546.35	\$2,882.59		
18	\$49,546.35	\$165.15	\$150.09	\$49,396.26	\$3,047.74		
19	\$49,396.26	\$164.65 \$164.15	\$150.59	\$49,245.66 \$40,004,56	\$3,212.39 \$2,276.55		
20 21	\$49,245.66 \$49,094.56	\$164.15 \$163.65	\$151.10 \$151.60	\$49,094.56 \$48.042.06	\$3,376.55 \$3,540.19		
21	\$49,094.56 \$48,942.96	\$163.14	\$152.11	\$48,942.96 \$48,790.86	\$3,703.34		
23	\$48,790.86	\$162.64	\$152.61	\$48,638.24	\$3,865.97		
24	\$48,638.24	\$162.13	\$153.12	\$48,485.12	\$4,028.10		
25 26	\$48,485.12 \$48,331.49	\$161.62 \$161.10	\$153.63 \$154.14	\$48,331.49 \$48,177.35	\$4,189.72 \$4,350.82		
27	\$48,177.35	\$160.59	\$154.66	\$48,022.69	\$4,511.41		
28	\$48,022.69	\$160.08	\$155.17	\$47,867.51	\$4,671.49		
29 30	\$47,867.51 \$47,711.82	\$159.56 \$159.04	\$155.69 \$156.21	\$47,711.82 \$47,555.61	\$4,831.05 \$4,990.09		
31	\$47,555.61	\$158.52	\$156.73	\$47,398.88	\$5,148.61		
32	\$47,398.88	\$158.00	\$157.25	\$47,241.63	\$5,306.60		
33 34	\$47,241.63 \$47,083.85	\$157.47 \$156.95	\$157.78 \$158.30	\$47,083.85 \$46,925.55	\$5,464.08 \$5,621.02		
35	\$46,925.55	\$156.42	\$158.83	\$46,766.72	\$5,777.44		
36	\$46,766.72	\$155.89	\$159.36	\$46,607.36	\$5,933.33		
37 38	\$46,607.36 \$46,447.47	\$155.36 \$154.82	\$159.89 \$160.42	\$46,447.47 \$46,287.04	\$6,088.69 \$6,243.51		
39	\$46,287.04	\$154.29	\$160.96	\$46,126.09	\$6,397.80		
40	\$46,126.09	\$153.75	\$161.50	\$45,964.59	\$6,551.56		
41	\$45,964.59	\$153.22	\$162.03	\$45,802.56	\$6,704.77		
42 43	\$45,802.56 \$45,639.98	\$152.68 \$152.13	\$162.57 \$163.12	\$45,639.98 \$45,476.87	\$6,857.45 \$7,009.58		
44	\$45,476.87	\$151.59	\$163.66	\$45,313.21	\$7,161.17		
45	\$45,313.21	\$151.04	\$164.21	\$45,149.00	\$7,312.21		
46 47	\$45,149.00 \$44,984.25	\$150.50 \$149.95	\$164.75 \$165.30	\$44,984.25 \$44,818.95	\$7,462.71 \$7,612.66		
48	\$44,818.95	\$149.40	\$165.85	\$44,653.09	\$7,762.05		
49	\$44,653.09	\$148.84	\$166.41	\$44,486.69	\$7,910.90		
50 51	\$44,486.69 \$44,319.73	\$148.29 \$147.73	\$166.96 \$167.52	\$44,319.73 \$44,152.21	\$8,059.19 \$8,206.92		
52	\$44,152.21	\$147.17	\$168.08	\$43,984.14	\$8,354.09		
53	\$43,984.14	\$146.61	\$168.64	\$43,815.50	\$8,500.71		
54	\$43,815.50	\$146.05 \$145.40	\$169.20 \$160.76	\$43,646.30 \$43,476.54	\$8,646.76 \$8,702.25		
55 56	\$43,646.30 \$43,476.54	\$145.49 \$144.92	\$169.76 \$170.33	\$43,476.54 \$43,306.22	\$8,792.25 \$8,937.17		
57	\$43,306.22	\$144.35	\$170.90	\$43,135.32	\$9,081.52		
58	\$43,135.32	\$143.78	\$171.46	\$42,963.86	\$9,225.31		
59 60	\$42,963.86 \$42,791.82	\$143.21 \$142.64	\$172.04 \$172.61	\$42,791.82 \$42,619.21	\$9,368.52 \$9,511.16		
61	\$42,619.21	\$142.06	\$173.19	\$42,446.02	\$9,653.22		
62	\$42,446.02	\$141.49	\$173.76	\$42,272.26	\$9,794.71		
63 64	\$42,272.26 \$42,097.92	\$140.91 \$140.33	\$174.34 \$174.92	\$42,097.92 \$41,923.00	\$9,935.62 \$10,075.94		
65	\$42,097.92 \$41,923.00	\$139.74	\$175.51	\$41,747.49	\$10,215.69		
66	\$41,747.49	\$139.16	\$176.09	\$41,571.40	\$10,354.84		
67 68	\$41,571.40 \$41,394.72	\$138.57 \$137.98	\$176.68 \$177.27	\$41,394.72 \$41,217.46	\$10,493.42 \$10,631.40		
69	\$41,217.46	\$137.39	\$177.86	\$41,039.60	\$10,768.79		

						D (Discount Factor) =	165.0218582
Loan Amount	Interest Rate	Term in Years	Monthly Paymont			P = A/D	\$315.25
\$52,023.00	4.00%	20	Monthly Payment \$315.25			P = A/D	\$315.25
φ32,023.00	4.0070	20	φ 313.2 3				
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest		
70	\$41,039.60	\$136.80	\$178.45	\$40,861.15	\$10,905.59		
71	\$40,861.15	\$136.20	\$179.05	\$40,682.10	\$11,041.79		
72	\$40,682.10	\$135.61	\$179.64	\$40,502.46	\$11,177.40		
73 74	\$40,502.46 \$40,322.22	\$135.01 \$134.41	\$180.24 \$180.84	\$40,322.22 \$40,141.38	\$11,312.41 \$11,446.82		
75	\$40,141.38	\$133.80	\$181.44	\$39,959.93	\$11,580.62		
76	\$39,959.93	\$133.20	\$182.05	\$39,777.88	\$11,713.82		
77	\$39,777.88	\$132.59	\$182.66	\$39,595.23	\$11,846.41		
78 79	\$39,595.23 \$39,411.96	\$131.98 \$131.37	\$183.27 \$183.88	\$39,411.96 \$39,228.09	\$11,978.40 \$12,109.77		
80	\$39,228.09	\$130.76	\$184.49	\$39,043.60	\$12,240.53		
81	\$39,043.60	\$130.15	\$185.10	\$38,858.49	\$12,370.68		
82 83	\$38,858.49 \$38,672.77	\$129.53 \$128.91	\$185.72	\$38,672.77	\$12,500.20 \$12,620,11		
84	\$38,486.43	\$128.29	\$186.34 \$186.96	\$38,486.43 \$38,299.47	\$12,629.11 \$12,757.40		
85	\$38,299.47	\$127.66	\$187.58	\$38,111.89	\$12,885.07		
86	\$38,111.89	\$127.04	\$188.21	\$37,923.68	\$13,012.11		
87	\$37,923.68	\$126.41	\$188.84	\$37,734.84 \$37,545,38	\$13,138.52		
88 89	\$37,734.84 \$37,545.38	\$125.78 \$125.15	\$189.47 \$190.10	\$37,545.38 \$37,355.28	\$13,264.30 \$13,389.45		
90	\$37,355.28	\$124.52	\$190.73	\$37,164.55	\$13,513.97		
91	\$37,164.55	\$123.88	\$191.37	\$36,973.18	\$13,637.85		
92	\$36,973.18	\$123.24	\$192.01	\$36,781.17 \$36,588,53	\$13,761.10		
93 94	\$36,781.17 \$36,588.53	\$122.60 \$121.96	\$192.65 \$193.29	\$36,588.53 \$36,395.24	\$13,883.70 \$14,005.66		
95	\$36,395.24	\$121.32	\$193.93	\$36,201.31	\$14,126.98		
96	\$36,201.31	\$120.67	\$194.58	\$36,006.73	\$14,247.65		
97 98	\$36,006.73 \$35,811,50	\$120.02 \$119.37	\$195.23 \$105.88	\$35,811.50 \$35,615,63	\$14,367.67 \$14,487.04		
98	\$35,811.50 \$35,615.63	\$118.72	\$195.88 \$196.53	\$35,615.63 \$35,419.10	\$14,487.04 \$14,605.76		
100	\$35,419.10	\$118.06	\$197.19	\$35,221.91	\$14,723.83		
101	\$35,221.91	\$117.41	\$197.84	\$35,024.07	\$14,841.23		
102 103	\$35,024.07 \$34,825.57	\$116.75 \$116.09	\$198.50 \$199.16	\$34,825.57 \$34,626.40	\$14,957.98 \$15,074.06		
104	\$34,626.40	\$115.42	\$199.83	\$34,426.57	\$15,189.49		
105	\$34,426.57	\$114.76	\$200.49	\$34,226.08	\$15,304.24		
106 107	\$34,226.08	\$114.09 \$113.42	\$201.16 \$201.82	\$34,024.92	\$15,418.33 \$15,521,74		
107	\$34,024.92 \$33,823.09	\$113.42	\$201.83 \$202.51	\$33,823.09 \$33,620.58	\$15,531.74 \$15,644.49		
109	\$33,620.58	\$112.07	\$203.18	\$33,417.40	\$15,756.56		
110	\$33,417.40	\$111.39	\$203.86	\$33,213.54	\$15,867.95		
111 112	\$33,213.54 \$33,009.00	\$110.71 \$110.03	\$204.54 \$205.22	\$33,009.00 \$32,803.79	\$15,978.66 \$16,088.69		
113	\$32,803.79	\$109.35	\$205.90	\$32,597.88	\$16,198.04		
114	\$32,597.88	\$108.66	\$206.59	\$32,391.29	\$16,306.70		
115	\$32,391.29	\$107.97	\$207.28	\$32,184.01	\$16,414.67		
116 117	\$32,184.01 \$31,976.05	\$107.28 \$106.59	\$207.97 \$208.66	\$31,976.05 \$31,767.38	\$16,521.95 \$16,628.53		
118	\$31,767.38	\$105.89	\$209.36	\$31,558.02	\$16,734.42		
119	\$31,558.02	\$105.19	\$210.06	\$31,347.97	\$16,839.62		
120	\$31,347.97 \$31,127.21	\$104.49 \$102.70	\$210.76 \$211.46	\$31,137.21 \$30,025,75	\$16,944.11 \$17.047.00		
121 122	\$31,137.21 \$30,925.75	\$103.79 \$103.09	\$211.46 \$212.16	\$30,925.75 \$30,713.59	\$17,047.90 \$17,150.99		
123	\$30,713.59	\$102.38	\$212.87	\$30,500.72	\$17,253.37		
124	\$30,500.72	\$101.67	\$213.58	\$30,287.14	\$17,355.04		
125 126	\$30,287.14 \$30,072.85	\$100.96 \$100.24	\$214.29 \$215.01	\$30,072.85 \$29,857.84	\$17,455.99 \$17,556.24		
120	\$30,072.85 \$29,857.84	\$99.53	\$215.72	\$29,657.64 \$29,642.12	\$17,655.76		
128	\$29,642.12	\$98.81	\$216.44	\$29,425.68	\$17,754.57		
129	\$29,425.68	\$98.09 \$07.26	\$217.16	\$29,208.51	\$17,852.65		
130 131	\$29,208.51 \$28,990.63	\$97.36 \$96.64	\$217.89 \$218.61	\$28,990.63 \$28,772.01	\$17,950.02 \$18,046.65		
132	\$28,772.01	\$95.91	\$219.34	\$28,552.67	\$18,142.56		
133	\$28,552.67	\$95.18	\$220.07	\$28,332.60	\$18,237.73		
134	\$28,332.60 \$28,111,70	\$94.44 \$02.71	\$220.81 \$221.54	\$28,111.79 \$27,800,25	\$18,332.18 \$18,425.88		
135 136	\$28,111.79 \$27,890.25	\$93.71 \$92.97	\$221.54 \$222.28	\$27,890.25 \$27,667.96	\$18,425.88 \$18,518.85		
137	\$27,667.96	\$92.23	\$223.02	\$27,444.94	\$18,611.08		
138	\$27,444.94	\$91.48	\$223.77	\$27,221.18	\$18,702.56		
139	\$27,221.18 \$26,006,66	\$90.74 \$80.00	\$224.51	\$26,996.66 \$26,771.40	\$18,793.30 \$18,882.28		
140 141	\$26,996.66 \$26,771.40	\$89.99 \$89.24	\$225.26 \$226.01	\$26,771.40 \$26,545.39	\$18,883.28 \$18,972.52		
142	\$26,545.39	\$88.48	\$226.76	\$26,318.63	\$19,061.01		
143	\$26,318.63	\$87.73	\$227.52	\$26,091.11	\$19,148.74		

						D (Discount Factor) =	165.0218582
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$315.25
\$52,023.00	4.00%	20	\$315.25			P = A/D	\$315.25
ψ02,020.00	T.00 70	20	ψ010.20				
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest		
144	\$26,091.11	\$86.97	\$228.28	\$25,862.83	\$19,235.71		
145	\$25,862.83	\$86.21	\$229.04	\$25,633.79	\$19,321.92		
146 147	\$25,633.79 \$25,403.99	\$85.45 \$84.68	\$229.80 \$230.57	\$25,403.99 \$25,173.42	\$19,407.36 \$19,492.04		
148	\$25,173.42	\$83.91	\$231.34	\$24,942.08	\$19,575.95		
149	\$24,942.08	\$83.14	\$232.11	\$24,709.97	\$19,659.09		
150	\$24,709.97	\$82.37	\$232.88	\$24,477.09	\$19,741.46		
151 152	\$24,477.09 \$24,243.43	\$81.59 \$80.81	\$233.66 \$234.44	\$24,243.43 \$24,008.99	\$19,823.05 \$19,903.86		
153	\$24,008.99	\$80.03	\$235.22	\$23,773.77	\$19,983.89		
154	\$23,773.77	\$79.25	\$236.00	\$23,537.77	\$20,063.14		
155	\$23,537.77	\$78.46	\$236.79	\$23,300.98	\$20,141.60		
156 157	\$23,300.98 \$23,063.40	\$77.67 \$76.88	\$237.58 \$238.37	\$23,063.40 \$22,825.03	\$20,219.27 \$20,206,14		
158	\$22,825.03	\$76.08	\$239.17	\$22,585.86	\$20,296.14 \$20,372.23		
159	\$22,585.86	\$75.29	\$239.96	\$22,345.90	\$20,447.51		
160	\$22,345.90	\$74.49	\$240.76	\$22,105.14	\$20,522.00		
161	\$22,105.14	\$73.68	\$241.57	\$21,863.57	\$20,595.68		
162 163	\$21,863.57 \$21,621.20	\$72.88 \$72.07	\$242.37 \$243.18	\$21,621.20 \$21,378.02	\$20,668.56 \$20,740.63		
164	\$21,378.02	\$71.26	\$243.99	\$21,134.03	\$20,811.89		
165	\$21,134.03	\$70.45	\$244.80	\$20,889.23	\$20,882.34		
166	\$20,889.23	\$69.63	\$245.62	\$20,643.61	\$20,951.97		
167 168	\$20,643.61 \$20,397.18	\$68.81 \$67.99	\$246.44 \$247.26	\$20,397.18 \$20,149.92	\$21,020.78 \$21,088.77		
169	\$20,149.92	\$67.17	\$248.08	\$20,149.92 \$19,901.83	\$21,155.94		
170	\$19,901.83	\$66.34	\$248.91	\$19,652.92	\$21,222.28		
171	\$19,652.92	\$65.51	\$249.74	\$19,403.19	\$21,287.79		
172	\$19,403.19 \$10,152,61	\$64.68 \$62.84	\$250.57	\$19,152.61 \$18,001,21	\$21,352.47 \$21,416,21		
173 174	\$19,152.61 \$18,901.21	\$63.84 \$63.00	\$251.41 \$252.25	\$18,901.21 \$18,648.96	\$21,416.31 \$21,479.31		
175	\$18,648.96	\$62.16	\$253.09	\$18,395.88	\$21,541.48		
176	\$18,395.88	\$61.32	\$253.93	\$18,141.95	\$21,602.80		
177	\$18,141.95 \$17,887,17	\$60.47 \$50.62	\$254.78	\$17,887.17 \$17,621,54	\$21,663.27 \$21,722,80		
178 179	\$17,887.17 \$17,631.54	\$59.62 \$58.77	\$255.63 \$256.48	\$17,631.54 \$17,375.07	\$21,722.89 \$21,781.66		
180	\$17,375.07	\$57.92	\$257.33	\$17,117.74	\$21,839.58		
181	\$17,117.74	\$57.06	\$258.19	\$16,859.55	\$21,896.64		
182	\$16,859.55	\$56.20	\$259.05	\$16,600.49	\$21,952.84		
183 184	\$16,600.49 \$16,340.58	\$55.33 \$54.47	\$259.91 \$260.78	\$16,340.58 \$16,079.80	\$22,008.17 \$22,062.64		
185	\$16,079.80	\$53.60	\$261.65	\$15,818.15	\$22,116.24		
186	\$15,818.15	\$52.73	\$262.52	\$15,555.63	\$22,168.97		
187	\$15,555.63	\$51.85	\$263.40	\$15,292.23	\$22,220.82		
188 189	\$15,292.23 \$15,027.96	\$50.97 \$50.09	\$264.28 \$265.16	\$15,027.96 \$14,762.80	\$22,271.80 \$22,321.89		
190	\$14,762.80	\$49.21	\$266.04	\$14,496.76	\$22,371.10		
191	\$14,496.76	\$48.32	\$266.93	\$14,229.83	\$22,419.42		
192	\$14,229.83	\$47.43	\$267.82	\$13,962.02	\$22,466.85		
193 194	\$13,962.02 \$13,693.31	\$46.54 \$45.64	\$268.71 \$269.60	\$13,693.31 \$13,423.70	\$22,513.39 \$22,559.04		
194	\$13,423.70	\$45.04 \$44.75	\$270.50	\$13,153.20	\$22,559.04 \$22,603.78		
196	\$13,153.20	\$43.84	\$271.41	\$12,881.79	\$22,647.63		
197	\$12,881.79	\$42.94	\$272.31	\$12,609.48	\$22,690.57		
198 199	\$12,609.48 \$12,336.27	\$42.03 \$41.12	\$273.22 \$274.13	\$12,336.27 \$12,062.14	\$22,732.60 \$22,773.72		
200	\$12,062.14	\$41.12 \$40.21	\$274.13 \$275.04	\$12,062.14 \$11,787.10	\$22,773.72 \$22,813.93		
201	\$11,787.10	\$39.29	\$275.96	\$11,511.14	\$22,853.22		
202	\$11,511.14	\$38.37	\$276.88	\$11,234.26	\$22,891.59		
203	\$11,234.26 \$10,956,46	\$37.45 \$36.52	\$277.80 \$278.73	\$10,956.46 \$10,677,73	\$22,929.03 \$22,965,56		
204 205	\$10,956.46 \$10,677.73	\$36.52 \$35.59	\$278.73 \$279.66	\$10,677.73 \$10,398.07	\$22,965.56 \$23,001.15		
205	\$10,398.07	\$34.66	\$280.59	\$10,117.48	\$23,035.81		
207	\$10,117.48	\$33.72	\$281.52	\$9,835.96	\$23,069.53		
208	\$9,835.96 \$0,553.50	\$32.79	\$282.46	\$9,553.50 \$0,270.00	\$23,102.32 \$22,124,17		
209 210	\$9,553.50 \$9,270.09	\$31.84 \$30.90	\$283.40 \$284.35	\$9,270.09 \$8,985.74	\$23,134.17 \$23,165.07		
210	\$8,985.74	\$29.95	\$285.30	\$8,700.45	\$23,195.02		
212	\$8,700.45	\$29.00	\$286.25	\$8,414.20	\$23,224.02		
213	\$8,414.20	\$28.05	\$287.20	\$8,127.00	\$23,252.07		
214 215	\$8,127.00 \$7,838.84	\$27.09 \$26.13	\$288.16 \$289.12	\$7,838.84 \$7,549.72	\$23,279.16 \$23,305.29		
215	\$7,549.72	\$25.17	\$290.08	\$7,259.64	\$23,330.45		
217	\$7,259.64	\$24.20	\$291.05	\$6,968.59	\$23,354.65		

						D (Discount Factor) =	165.0218582
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$315.25
\$52,023.00	4.00%	20	\$315.25				
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest		
218	\$6,968.59	\$23.23	\$292.02	\$6,676.57	\$23,377.88		
219	\$6,676.57	\$22.26	\$292.99	\$6,383.57	\$23,400.13		
220	\$6,383.57	\$21.28	\$293.97	\$6,089.60	\$23,421.41		
221	\$6,089.60	\$20.30	\$294.95	\$5,794.65	\$23,441.71		
222	\$5,794.65	\$19.32	\$295.93	\$5,498.72	\$23,461.03		
223	\$5,498.72	\$18.33	\$296.92	\$5,201.80	\$23,479.36		
224	\$5,201.80	\$17.34	\$297.91	\$4,903.89	\$23,496.70		
225	\$4,903.89	\$16.35	\$298.90	\$4,604.98	\$23,513.04		
226	\$4,604.98	\$15.35	\$299.90	\$4,305.08	\$23,528.39		
227	\$4,305.08	\$14.35	\$300.90	\$4,004.19	\$23,542.74		
228	\$4,004.19	\$13.35	\$301.90	\$3,702.28	\$23,556.09		
229	\$3,702.28	\$12.34	\$302.91	\$3,399.38	\$23,568.43		
230	\$3,399.38	\$11.33	\$303.92	\$3,095.46	\$23,579.76		
231	\$3,095.46	\$10.32	\$304.93	\$2,790.53	\$23,590.08		
232	\$2,790.53	\$9.30	\$305.95	\$2,484.58	\$23,599.38		
233	\$2,484.58	\$8.28	\$306.97	\$2,177.61	\$23,607.66		
234	\$2,177.61	\$7.26	\$307.99	\$1,869.62	\$23,614.92		
235	\$1,869.62	\$6.23	\$309.02	\$1,560.61	\$23,621.15		
236	\$1,560.61	\$5.20	\$310.05	\$1,250.56	\$23,626.36		
237	\$1,250.56	\$4.17	\$311.08	\$939.48	\$23,630.53		
238	\$939.48	\$3.13	\$312.12	\$627.36	\$23,633.66		
239	\$627.36	\$2.09	\$313.16	\$314.20	\$23,635.75		
240	\$314.20	\$1.05	\$314.20	\$0.00	\$23,636.80		

						D (Discount Factor) =	98.77017486
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$765.58
\$75,616.00	4.00%	10	\$765.58				
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest		
1	\$75,616.00	\$252.05	\$513.52	\$75,102.48	\$252.05		
2	\$75,102.48	\$250.34	\$515.23	\$74,587.24	\$502.39		
3	\$74,587.24	\$248.62	\$516.95	\$74,070.29	\$751.02		
4	\$74,070.29	\$246.90	\$518.67	\$73,551.62	\$997.92		
5	\$73,551.62	\$245.17	\$520.40	\$73,031.22	\$1,243.09		
6	\$73,031.22	\$243.44	\$522.14	\$72,509.08	\$1,486.53		
7	\$72,509.08	\$241.70	\$523.88	\$71,985.20	\$1,728.23		
8	\$71,985.20	\$239.95	\$525.62	\$71,459.58	\$1,968.18		
9	\$71,459.58	\$238.20	\$527.38	\$70,932.20 \$70,403.06	\$2,206.38		
10 11	\$70,932.20 \$70,403.06	\$236.44 \$234.68	\$529.13 \$530.90	\$70,403.06 \$69,872.17	\$2,442.82 \$2,677.49		
12	\$69,872.17	\$232.91	\$532.67	\$69,339.50	\$2,077.49 \$2,910.40		
13	\$69,339.50	\$231.13	\$534.44	\$68,805.05	\$3,141.53		
14	\$68,805.05	\$229.35	\$536.23	\$68,268.83	\$3,370.88		
15	\$68,268.83	\$227.56	\$538.01	\$67,730.82	\$3,598.45		
16	\$67,730.82	\$225.77	\$539.81	\$67,191.01	\$3,824.21		
17	\$67,191.01	\$223.97	\$541.61	\$66,649.41	\$4,048.18		
18	\$66,649.41	\$222.16	\$543.41	\$66,105.99	\$4,270.35		
19	\$66,105.99	\$220.35	\$545.22	\$65,560.77	\$4,490.70		
20	\$65,560.77	\$218.54	\$547.04	\$65,013.73	\$4,709.24		
21	\$65,013.73	\$216.71	\$548.86	\$64,464.87	\$4,925.95		
22	\$64,464.87 \$62,014,18	\$214.88 \$212.05	\$550.69 \$552.52	\$63,914.18 \$62,261,65	\$5,140.83 \$5,252.88		
23 24	\$63,914.18 \$63,361.65	\$213.05 \$211.21	\$552.53 \$554.37	\$63,361.65 \$62,807.28	\$5,353.88 \$5,565.09		
25	\$62,807.28	\$209.36	\$556.22	\$62,251.06	\$5,774.44		
26	\$62,251.06	\$207.50	\$558.07	\$61,692.99	\$5,981.95		
27 28	\$61,692.99 \$61,133.06	\$205.64 \$203.78	\$559.93 \$561.80	\$61,133.06 \$60,571.26	\$6,187.59 \$6,391.37		
29	\$60,571.26	\$201.90	\$563.67	\$60,007.59	\$6,593.27		
30	\$60,007.59	\$200.03	\$565.55	\$59,442.04	\$6,793.30		
31 32	\$59,442.04 \$58,874.61	\$198.14 \$196.25	\$567.44 \$569.33	\$58,874.61 \$58,305.28	\$6,991.44 \$7,187.69		
33	\$58,305.28	\$194.35	\$571.22	\$57,734.05	\$7,382.04		
34	\$57,734.05	\$192.45	\$573.13	\$57,160.93	\$7,574.48		
35 36	\$57,160.93 \$56,585.89	\$190.54 \$188.62	\$575.04 \$576.96	\$56,585.89 \$56,008.93	\$7,765.02 \$7,953.64		
37	\$56,008.93	\$186.70	\$578.88	\$55,430.05	\$8,140.34		
38	\$55,430.05	\$184.77	\$580.81	\$54,849.24	\$8,325.10		
39 40	\$54,849.24 \$54,266.50	\$182.83 \$180.89	\$582.74 \$584.69	\$54,266.50 \$53,681.81	\$8,507.93 \$8,688.82		
40	\$53,681.81	\$178.94	\$586.64	\$53,095.18	\$8,867.76		
42	\$53,095.18	\$176.98	\$588.59	\$52,506.59	\$9,044.75		
43 44	\$52,506.59 \$51,916.03	\$175.02 \$173.05	\$590.55 \$592.52	\$51,916.03 \$51,323.51	\$9,219.77 \$9,392.82		
44	\$51,323.51	\$171.08	\$594.50	\$50,729.01	\$9,563.90		
46	\$50,729.01	\$169.10	\$596.48	\$50,132.54	\$9,733.00		
47 48	\$50,132.54 \$49,534.07	\$167.11 \$165.11	\$598.47 \$600.46	\$49,534.07 \$48,933.61	\$9,900.10 \$10,065.22		
40	\$48,933.61	\$163.11	\$602.46	\$48,331.14	\$10,228.33		
50	\$48,331.14	\$161.10	\$604.47	\$47,726.67	\$10,389.43		
51 52	\$47,726.67 \$47,120.19	\$159.09 \$157.07	\$606.49 \$608.51	\$47,120.19 \$46,511.68	\$10,548.52 \$10,705.59		
52	\$46,511.68	\$155.04	\$610.54	\$45,901.14	\$10,860.63		
54	\$45,901.14	\$153.00	\$612.57	\$45,288.57	\$11,013.63		
55	\$45,288.57	\$150.96 \$148.01	\$614.61 \$616.66	\$44,673.96 \$44,057,20	\$11,164.59 \$11,212,51		
56 57	\$44,673.96 \$44,057.29	\$148.91 \$146.86	\$616.66 \$618.72	\$44,057.29 \$43,438.58	\$11,313.51 \$11,460.37		
58	\$43,438.58	\$144.80	\$620.78	\$42,817.80	\$11,605.16		
59	\$42,817.80 \$42,404.05	\$142.73 \$140.65	\$622.85	\$42,194.95	\$11,747.89 \$11,888.54		
60 61	\$42,194.95 \$41,570.02	\$140.65 \$138.57	\$624.93 \$627.01	\$41,570.02 \$40,943.01	\$11,888.54 \$12,027.10		
62	\$40,943.01	\$136.48	\$629.10	\$40,313.92	\$12,163.58		
63	\$40,313.92	\$134.38	\$631.20	\$39,682.72	\$12,297.96		
64 65	\$39,682.72 \$39,049.42	\$132.28 \$130.16	\$633.30 \$635.41	\$39,049.42 \$38,414.01	\$12,430.24 \$12,560.40		
66	\$38,414.01	\$128.05	\$637.53	\$37,776.48	\$12,688.45		
67	\$37,776.48	\$125.92	\$639.65	\$37,136.83	\$12,814.37		
68 69	\$37,136.83 \$36,495.04	\$123.79 \$121.65	\$641.79 \$643.93	\$36,495.04 \$35,851.12	\$12,938.16 \$13,059.81		
	φ00,400.0 1	Ψ121.00	ψ0-10.00	φ00,001.1Z	φ10,000.01		

						D (Discount Factor) =	98.77017486
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$765.58
\$75,616.00	4.00%	10	\$765.58				
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest		
70	\$35,851.12	\$119.50	\$646.07	\$35,205.05	\$13,179.31		
71	\$35,205.05	\$117.35	\$648.23	\$34,556.82	\$13,296.66		
72	\$34,556.82	\$115.19	\$650.39	\$33,906.43	\$13,411.85		
73	\$33,906.43	\$113.02	\$652.55	\$33,253.88	\$13,524.87		
74	\$33,253.88	\$110.85	\$654.73	\$32,599.15	\$13,635.72		
75	\$32,599.15	\$108.66	\$656.91	\$31,942.24	\$13,744.38		
76	\$31,942.24	\$106.47	\$659.10	\$31,283.14	\$13,850.86		
77	\$31,283.14	\$104.28	\$661.30	\$30,621.84	\$13,955.13		
78	\$30,621.84	\$102.07	\$663.50	\$29,958.34	\$14,057.21		
79	\$29,958.34	\$99.86	\$665.71	\$29,292.62	\$14,157.07		
80	\$29,292.62	\$97.64	\$667.93	\$28,624.69	\$14,254.71		
81	\$28,624.69	\$95.42	\$670.16	\$27,954.53	\$14,350.13		
82	\$27,954.53	\$93.18	\$672.39	\$27,282.14	\$14,443.31		
83	\$27,282.14	\$90.94	\$674.63	\$26,607.50	\$14,534.25		
84	\$26,607.50	\$88.69	\$676.88	\$25,930.62	\$14,622.94		
85	\$25,930.62	\$86.44	\$679.14	\$25,251.48	\$14,709.38		
86	\$25,251.48	\$84.17	\$681.40	\$24,570.08	\$14,793.55		
87	\$24,570.08	\$81.90	\$683.67	\$23,886.40	\$14,875.45		
88	\$23,886.40	\$79.62	\$685.95	\$23,200.45	\$14,955.07		
89	\$23,200.45	\$77.33	\$688.24	\$22,512.21	\$15,032.40		
90	\$22,512.21	\$75.04	\$690.53	\$21,821.67	\$15,107.44		
91	\$21,821.67	\$72.74	\$692.84	\$21,128.84	\$15,180.18		
92	\$21,128.84	\$70.43	\$695.15	\$20,433.69	\$15,250.61		
93	\$20,433.69	\$68.11	\$697.46	\$19,736.23	\$15,318.72		
94	\$19,736.23	\$65.79	\$699.79	\$19,036.44	\$15,384.51		
95	\$19,036.44	\$63.45	\$702.12	\$18,334.32	\$15,447.97		
96	\$18,334.32	\$61.11	\$704.46	\$17,629.86	\$15,509.08		
97	\$17,629.86	\$58.77	\$706.81	\$16,923.05	\$15,567.85		
98	\$16,923.05	\$56.41	\$709.17	\$16,213.88	\$15,624.26		
99	\$16,213.88	\$54.05	\$711.53	\$15,502.36	\$15,678.30		
100	\$15,502.36	\$51.67	\$713.90	\$14,788.45	\$15,729.98		
101	\$14,788.45	\$49.29	\$716.28	\$14,072.17	\$15,779.27		
102	\$14,072.17	\$46.91	\$718.67 \$724.06	\$13,353.51	\$15,826.18 \$15,870.60		
103	\$13,353.51	\$44.51	\$721.06 \$722.47	\$12,632.44 \$11,908.98	\$15,870.69 \$15,912.80		
104 105	\$12,632.44	\$42.11 \$39.70	\$723.47				
105	\$11,908.98 \$11,183.10	\$37.28	\$725.88 \$728.30	\$11,183.10 \$10,454.80	\$15,952.50 \$15,989.77		
107	\$10,454.80	\$34.85	\$730.73	\$9,724.07	\$16,024.62		
107	\$9,724.07	\$32.41	\$733.16	\$8,990.91	\$16,057.04		
109	\$8,990.91	\$29.97	\$735.61	\$8,255.31	\$16,087.01		
110	\$8,255.31	\$27.52	\$738.06	\$7,517.25	\$16,114.52		
111	\$7,517.25	\$25.06	\$740.52	\$6,776.73	\$16,139.58		
112	\$6,776.73	\$22.59	\$740.32	\$6,033.74	\$16,162.17		
113	\$6,033.74	\$20.11	\$745.46	\$5,288.28	\$16,182.28		
114	\$5,288.28	\$17.63	\$747.95	\$4,540.33	\$16,199.91		
115	\$4,540.33	\$15.13	\$750.44	\$3,789.89	\$16,215.05		
116	\$3,789.89	\$12.63	\$752.94	\$3,036.95	\$16,227.68		
117	\$3,036.95	\$10.12	\$755.45	\$2,281.50	\$16,237.80		
118	\$2,281.50	\$7.60	\$757.97	\$1,523.53	\$16,245.41		
119	\$1,523.53	\$5.08	\$760.50	\$763.03	\$16,250.48		
120	\$763.03	\$2.54	\$763.03	\$0.00	\$16,253.03		
	÷. 00.00	*= ·• ·	÷. 00.00	+0.00	÷.,_00.00		

						D (Discount Factor) =	135.1921487
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$559.32
\$75,616.00	4.00%	15	\$559.32				
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest		
1	\$75,616.00	\$252.05	\$307.27	\$75,308.73	\$252.05		
2	\$75,308.73	\$251.03	\$308.29	\$75,000.44	\$503.08		
3	\$75,000.44	\$250.00	\$309.32	\$74,691.12	\$753.08		
4	\$74,691.12	\$248.97	\$310.35	\$74,380.76	\$1,002.05		
5	\$74,380.76	\$247.94	\$311.39	\$74,069.38	\$1,249.99		
6	\$74,069.38	\$246.90	\$312.42	\$73,756.95	\$1,496.89		
7	\$73,756.95	\$245.86	\$313.47	\$73,443.49	\$1,742.74		
8	\$73,443.49	\$244.81	\$314.51	\$73,128.98	\$1,987.56		
9	\$73,128.98	\$243.76	\$315.56	\$72,813.42	\$2,231.32		
10	\$72,813.42	\$242.71	\$316.61	\$72,496.81	\$2,474.03		
11	\$72,496.81	\$241.66	\$317.67	\$72,179.14	\$2,715.69		
12	\$72,179.14	\$240.60	\$318.73	\$71,860.41	\$2,956.28		
13	\$71,860.41 \$71,540,62	\$239.53 \$238.47	\$319.79	\$71,540.63 \$71,210,77	\$3,195.82 \$3,434.20		
14 15	\$71,540.63 \$71,210,77	\$238.47 \$227.40	\$320.85	\$71,219.77 \$70,807,85	\$3,434.29 \$3,671.60		
15	\$71,219.77 \$70,897.85	\$237.40 \$236.33	\$321.92 \$323.00	\$70,897.85 \$70,574.85	\$3,671.69 \$3,908.01		
17	\$70,574.85	\$235.25	\$324.07	\$70,250.78	\$3,908.01 \$4,143.26		
18	\$70,250.78	\$234.17	\$325.15	\$69,925.63	\$4,143.20 \$4,377.43		
19	\$69,925.63	\$233.09	\$326.24	\$69,599.39	\$4,610.52		
20	\$69,599.39	\$232.00	\$327.32	\$69,272.07	\$4,842.52		
21	\$69,272.07	\$230.91	\$328.42	\$68,943.65	\$5,073.42		
22	\$68,943.65	\$229.81	\$329.51	\$68,614.14	\$5,303.23		
23	\$68,614.14	\$228.71	\$330.61	\$68,283.53	\$5,531.95 \$5,750.50		
24 25	\$68,283.53 \$67,951.82	\$227.61 \$226.51	\$331.71 \$332.82	\$67,951.82 \$67,619.01	\$5,759.56 \$5,986.07		
26	\$67,619.01	\$225.40	\$333.93	\$67,285.08	\$6,211.46		
27	\$67,285.08	\$224.28	\$335.04	\$66,950.04	\$6,435.75		
28 29	\$66,950.04 \$66,613.89	\$223.17 \$222.05	\$336.16 \$337.28	\$66,613.89 \$66,276.61	\$6,658.91 \$6,880.96		
30	\$66,276.61	\$220.92	\$338.40	\$65,938.21	\$7,101.88		
31	\$65,938.21	\$219.79	\$339.53	\$65,598.68	\$7,321.68		
32 33	\$65,598.68 \$65,258.02	\$218.66 \$217.53	\$340.66 \$341.80	\$65,258.02 \$64,916.22	\$7,540.34 \$7,757.86		
34	\$64,916.22	\$216.39	\$342.94	\$64,573.29	\$7,974.25		
35	\$64,573.29	\$215.24	\$344.08	\$64,229.21	\$8,189.50		
36 37	\$64,229.21 \$63,883.99	\$214.10 \$212.95	\$345.23 \$346.38	\$63,883.99 \$63,537.61	\$8,403.59 \$8,616.54		
38	\$63,537.61	\$211.79	\$347.53	\$63,190.08	\$8,828.33		
39	\$63,190.08	\$210.63	\$348.69	\$62,841.39	\$9,038.97		
40 41	\$62,841.39 \$62,491.54	\$209.47 \$208.31	\$349.85 \$351.02	\$62,491.54 \$62,140.52	\$9,248.44 \$9,456.74		
41	\$62,140.52	\$207.14	\$352.19	\$61,788.34	\$9,663.88		
43	\$61,788.34	\$205.96	\$353.36	\$61,434.97	\$9,869.84		
44	\$61,434.97	\$204.78	\$354.54	\$61,080.43	\$10,074.62		
45 46	\$61,080.43 \$60,724.71	\$203.60 \$202.42	\$355.72 \$356.91	\$60,724.71 \$60,367.81	\$10,278.22 \$10,480.64		
47	\$60,367.81	\$201.23	\$358.10	\$60,009.71	\$10,681.86		
48	\$60,009.71	\$200.03	\$359.29	\$59,650.42	\$10,881.90		
49 50	\$59,650.42 \$59,289.93	\$198.83 \$197.63	\$360.49 \$361.69	\$59,289.93 \$58,928.24	\$11,080.73 \$11,278.36		
51	\$58,928.24	\$196.43	\$362.89	\$58,565.35	\$11,474.79		
52	\$58,565.35	\$195.22	\$364.10	\$58,201.24	\$11,670.01		
53 54	\$58,201.24 \$57,835.93	\$194.00 \$192.79	\$365.32 \$366.54	\$57,835.93 \$57,469.39	\$11,864.01 \$12,056.80		
55	\$57,469.39	\$191.56	\$367.76	\$57,101.63	\$12,248.37		
56	\$57,101.63	\$190.34	\$368.98	\$56,732.65	\$12,438.70		
57 58	\$56,732.65 \$56,362.43	\$189.11 \$187.87	\$370.21 \$371.45	\$56,362.43 \$55,990.99	\$12,627.81 \$12,815.69		
58 59	\$55,990.99	\$187.87 \$186.64	\$372.69	\$55,618.30	\$12,815.69 \$13,002.32		
60	\$55,618.30	\$185.39	\$373.93	\$55,244.37	\$13,187.72		
61 62	\$55,244.37 \$54,869,20	\$184.15 \$182.90	\$375.17 \$376.43	\$54,869.20 \$54,492.77	\$13,371.87 \$13,554,76		
62 63	\$54,869.20 \$54,492.77	\$182.90 \$181.64	\$376.43 \$377.68	\$54,492.77 \$54,115.09	\$13,554.76 \$13,736.41		
64	\$54,115.09	\$180.38	\$378.94	\$53,736.16	\$13,916.79		
65	\$53,736.16 \$53,255,05	\$179.12 \$177.85	\$380.20	\$53,355.95 \$52,074,48	\$14,095.91 \$14,272,76		
66 67	\$53,355.95 \$52,974.48	\$177.85 \$176.58	\$381.47 \$382.74	\$52,974.48 \$52,591.74	\$14,273.76 \$14,450.35		
68	\$52,591.74	\$175.31	\$384.02	\$52,207.73	\$14,625.65		
69	\$52,207.73	\$174.03	\$385.30	\$51,822.43	\$14,799.68		

						D (Discount Easter) -	135.1921487
Loan Amount	Interest Rate	Term in Years	Monthly Payment			D (Discount Factor) = P = A/D	\$559.32
\$75,616.00	4.00%	15	\$559.32			P = A/D	\$009.0Z
φ75,010.00	4.0070	15	φ 3 39.32				
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest		
70	\$51,822.43	\$172.74	\$386.58	\$51,435.85	\$14,972.42		
71	\$51,435.85	\$171.45	\$387.87	\$51,047.98	\$15,143.87		
72	\$51,047.98	\$170.16	\$389.16	\$50,658.82	\$15,314.03		
73 74	\$50,658.82 \$50,268.36	\$168.86 \$167.56	\$390.46 \$391.76	\$50,268.36 \$49,876.60	\$15,482.89 \$15,650.46		
75	\$49,876.60	\$166.26	\$393.07	\$49,483.53	\$15,816.71		
76	\$49,483.53	\$164.95	\$394.38	\$49,089.15	\$15,981.66		
77	\$49,089.15	\$163.63	\$395.69	\$48,693.46	\$16,145.29		
78 79	\$48,693.46 \$48,296.45	\$162.31 \$160.99	\$397.01 \$398.33	\$48,296.45 \$47,898.11	\$16,307.60 \$16,468.59		
80	\$47,898.11	\$159.66	\$399.66	\$47,498.45	\$16,628.25		
81	\$47,498.45	\$158.33	\$400.99	\$47,097.46	\$16,786.57		
82	\$47,097.46	\$156.99	\$402.33	\$46,695.13	\$16,943.57		
83 84	\$46,695.13 \$46,291.46	\$155.65 \$154.30	\$403.67 \$405.02	\$46,291.46 \$45,886.44	\$17,099.22 \$17,253.52		
85	\$45,886.44	\$152.95	\$406.37	\$45,480.07	\$17,406.48		
86	\$45,480.07	\$151.60	\$407.72	\$45,072.35	\$17,558.08		
87	\$45,072.35	\$150.24	\$409.08	\$44,663.27	\$17,708.32		
88 89	\$44,663.27 \$44,252.82	\$148.88 \$147.51	\$410.44 \$411.81	\$44,252.82 \$43,841.01	\$17,857.19 \$18,004.70		
90	\$43,841.01	\$146.14	\$413.19	\$43,427.82	\$18,150.84		
91	\$43,427.82	\$144.76	\$414.56	\$43,013.26	\$18,295.60		
92	\$43,013.26	\$143.38	\$415.94	\$42,597.32	\$18,438.98		
93	\$42,597.32 \$42,170.08	\$141.99 \$140.60	\$417.33 \$418.72	\$42,179.98 \$41.761.26	\$18,580.97 \$18,721,57		
94 95	\$42,179.98 \$41,761.26	\$139.20	\$420.12	\$41,761.26 \$41,341.14	\$18,721.57 \$18,860.77		
96	\$41,341.14	\$137.80	\$421.52	\$40,919.62	\$18,998.58		
97	\$40,919.62	\$136.40	\$422.92	\$40,496.70	\$19,134.98		
98 99	\$40,496.70 \$40,072,27	\$134.99 \$132.57	\$424.33 \$425.75	\$40,072.37 \$20,646,62	\$19,269.96 \$10,403.54		
100	\$40,072.37 \$39,646.62	\$133.57 \$132.16	\$425.75 \$427.17	\$39,646.62 \$39,219.45	\$19,403.54 \$19,535.69		
101	\$39,219.45	\$130.73	\$428.59	\$38,790.86	\$19,666.43		
102	\$38,790.86	\$129.30	\$430.02	\$38,360.84	\$19,795.73		
103 104	\$38,360.84	\$127.87 \$126.42	\$431.45 \$432.89	\$37,929.39 \$37,406,50	\$19,923.60 \$20,050,02		
104	\$37,929.39 \$37,496.50	\$126.43 \$124.99	\$434.33	\$37,496.50 \$37,062.16	\$20,050.03 \$20,175.02		
106	\$37,062.16	\$123.54	\$435.78	\$36,626.38	\$20,298.56		
107	\$36,626.38	\$122.09	\$437.23	\$36,189.15	\$20,420.65		
108 109	\$36,189.15 \$35,750.46	\$120.63 \$119.17	\$438.69 \$440.15	\$35,750.46 \$35,310.30	\$20,541.28 \$20,660.45		
110	\$35,310.30	\$117.70	\$441.62	\$34,868.68	\$20,778.15		
111	\$34,868.68	\$116.23	\$443.09	\$34,425.59	\$20,894.38		
112	\$34,425.59	\$114.75	\$444.57	\$33,981.02	\$21,009.13		
113 114	\$33,981.02 \$33,534.96	\$113.27 \$111.78	\$446.05 \$447.54	\$33,534.96 \$33,087.42	\$21,122.40 \$21,234.18		
115	\$33,087.42	\$110.29	\$449.03	\$32,638.39	\$21,344.47		
116	\$32,638.39	\$108.79	\$450.53	\$32,187.87	\$21,453.27		
117	\$32,187.87	\$107.29	\$452.03	\$31,735.84	\$21,560.56		
118 119	\$31,735.84 \$31,282.30	\$105.79 \$104.27	\$453.54 \$455.05	\$31,282.30 \$30,827.25	\$21,666.35 \$21,770.62		
120	\$30,827.25	\$104.27	\$455.05 \$456.56	\$30,827.25	\$21,873.38		
121	\$30,370.69	\$101.24	\$458.09	\$29,912.60	\$21,974.61		
122	\$29,912.60	\$99.71	\$459.61	\$29,452.99	\$22,074.32		
123 124	\$29,452.99 \$28,991.84	\$98.18 \$96.64	\$461.15 \$462.68	\$28,991.84 \$28,529.16	\$22,172.50 \$22,269.14		
124	\$28,529.16	\$95.10	\$464.23	\$28,064.93	\$22,209.14 \$22,364.23		
126	\$28,064.93	\$93.55	\$465.77	\$27,599.16	\$22,457.78		
127	\$27,599.16	\$92.00	\$467.33	\$27,131.83	\$22,549.78		
128 129	\$27,131.83 \$26,662.95	\$90.44 \$88.88	\$468.88 \$470.45	\$26,662.95 \$26,192.51	\$22,640.22 \$22,729.10		
130	\$26,192.51	\$87.31	\$472.01	\$25,720.49	\$22,816.41		
131	\$25,720.49	\$85.73	\$473.59	\$25,246.90	\$22,902.14		
132	\$25,246.90	\$84.16	\$475.17	\$24,771.74	\$22,986.30		
133 134	\$24,771.74 \$24,294.99	\$82.57 \$80.98	\$476.75 \$478.34	\$24,294.99 \$23,816.65	\$23,068.87 \$23,149.85		
135	\$23,816.65	\$79.39	\$479.93	\$23,336.72	\$23,229.24		
136	\$23,336.72	\$77.79	\$481.53	\$22,855.18	\$23,307.03		
137	\$22,855.18	\$76.18	\$483.14	\$22,372.04	\$23,383.22		
138 139	\$22,372.04 \$21,887.29	\$74.57 \$72.96	\$484.75 \$486.36	\$21,887.29 \$21,400.93	\$23,457.79 \$23,530.75		
140	\$21,400.93	\$71.34	\$487.99	\$21,400.93 \$20,912.94	\$23,602.08		
141	\$20,912.94	\$69.71	\$489.61	\$20,423.33	\$23,671.79		
142	\$20,423.33	\$68.08	\$491.24	\$19,932.09	\$23,739.87		
143	\$19,932.09	\$66.44	\$492.88	\$19,439.20	\$23,806.31		

						D (Discount Factor) =	135.1921487
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$559.32
\$75,616.00	4.00%	15	\$559.32				
 ,							
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest		
144	\$19,439.20	\$64.80	\$494.53	\$18,944.68	\$23,871.11		
145	\$18,944.68	\$63.15	\$496.17	\$18,448.51	\$23,934.26		
146	\$18,448.51	\$61.50	\$497.83	\$17,950.68	\$23,995.75		
147	\$17,950.68	\$59.84	\$499.49	\$17,451.19	\$24,055.59		
148	\$17,451.19	\$58.17	\$501.15	\$16,950.04	\$24,113.76		
149	\$16,950.04	\$56.50	\$502.82	\$16,447.22	\$24,170.26		
150	\$16,447.22	\$54.82	\$504.50	\$15,942.72	\$24,225.08		
151	\$15,942.72	\$53.14	\$506.18	\$15,436.54	\$24,278.22		
152	\$15,436.54	\$51.46	\$507.87	\$14,928.67	\$24,329.68		
153	\$14,928.67	\$49.76	\$509.56	\$14,419.11	\$24,379.44		
154	\$14,419.11	\$48.06	\$511.26	\$13,907.85	\$24,427.51		
155	\$13,907.85	\$46.36	\$512.96	\$13,394.89	\$24,473.87		
156	\$13,394.89	\$44.65	\$514.67	\$12,880.22	\$24,518.51		
157	\$12,880.22	\$42.93	\$516.39	\$12,363.83	\$24,561.45		
158	\$12,363.83	\$41.21	\$518.11	\$11,845.72	\$24,602.66		
159	\$11,845.72	\$39.49	\$519.84	\$11,325.88	\$24,642.15		
160	\$11,325.88	\$37.75	\$521.57	\$10,804.31	\$24,679.90		
161	\$10,804.31	\$36.01	\$523.31	\$10,281.00	\$24,715.91		
162	\$10,281.00	\$34.27	\$525.05	\$9,755.95	\$24,750.18		
163	\$9,755.95	\$32.52	\$526.80	\$9,229.15	\$24,782.70		
164	\$9,229.15	\$30.76	\$528.56	\$8,700.59	\$24,813.47		
165	\$8,700.59	\$29.00	\$530.32	\$8,170.27	\$24,842.47		
166	\$8,170.27	\$27.23	\$532.09	\$7,638.18	\$24,869.70		
167	\$7,638.18	\$25.46	\$533.86	\$7,104.32	\$24,895.17		
168	\$7,104.32	\$23.68	\$535.64	\$6,568.68	\$24,918.85		
169	\$6,568.68	\$21.90	\$537.43	\$6,031.25	\$24,940.74		
170	\$6,031.25	\$20.10	\$539.22	\$5,492.03	\$24,960.85		
171	\$5,492.03	\$18.31	\$541.02	\$4,951.02	\$24,979.15		
172	\$4,951.02	\$16.50	\$542.82	\$4,408.20	\$24,995.66		
173	\$4,408.20	\$14.69	\$544.63	\$3,863.57	\$25,010.35		
174	\$3,863.57	\$12.88	\$546.44	\$3,317.13	\$25,023.23		
175	\$3,317.13	\$11.06	\$548.27	\$2,768.86	\$25,034.29		
176	\$2,768.86	\$9.23	\$550.09	\$2,218.77	\$25,043.52		
177	\$2,218.77	\$7.40	\$551.93	\$1,666.84	\$25,050.91		
178	\$1,666.84	\$5.56	\$553.77	\$1,113.08	\$25,056.47		
179	\$1,113.08	\$3.71	\$555.61	\$557.46	\$25,060.18		
180	\$557.46	\$1.86	\$557.46	\$0.00	\$25,062.04		

						D (Discount Factor) =	165.0218582
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$458.22
\$75,616.00	4.00%	20	\$458.22				
Manth	Ctartin «Dalance	Interest	Dringing		Totollutovoot		
Month 1	StartingBalance \$75,616.00	Interest \$252.05	Principal \$206.16	EndingBalance \$75,409.84	TotalInterest \$252.05		
2	\$75,409.84	\$252.05 \$251.37	\$206.85	\$75,202.98	\$503.42		
3	\$75,202.98	\$250.68	\$207.54	\$74,995.44	\$754.10		
4	\$74,995.44	\$249.98	\$208.23	\$74,787.21	\$1,004.08		
5	\$74,787.21	\$249.29	\$208.93	\$74,578.28	\$1,253.37		
6	\$74,578.28	\$248.59	\$209.62	\$74,368.66	\$1,501.97		
7	\$74,368.66	\$247.90	\$210.32	\$74,158.33	\$1,749.86		
8	\$74,158.33	\$247.19	\$211.02	\$73,947.31	\$1,997.06		
9	\$73,947.31	\$246.49	\$211.73	\$73,735.58	\$2,243.55		
10	\$73,735.58	\$245.79	\$212.43	\$73,523.15	\$2,489.33		
11	\$73,523.15	\$245.08	\$213.14	\$73,310.01	\$2,734.41		
12	\$73,310.01	\$244.37	\$213.85	\$73,096.16	\$2,978.78		
13	\$73,096.16	\$243.65	\$214.56	\$72,881.59	\$3,222.43		
14	\$72,881.59	\$242.94	\$215.28	\$72,666.32	\$3,465.37		
15	\$72,666.32	\$242.22	\$216.00	\$72,450.32	\$3,707.59		
16	\$72,450.32	\$241.50	\$216.72	\$72,233.60	\$3,949.09		
17	\$72,233.60	\$240.78	\$217.44	\$72,016.16	\$4,189.87		
18	\$72,016.16 \$71,708,00	\$240.05	\$218.16 \$218.90	\$71,798.00 \$71,570,11	\$4,429.92 \$4,660.25		
19 20	\$71,798.00 \$71,579.11	\$239.33 \$238.60	\$218.89 \$219.62	\$71,579.11 \$71,359.49	\$4,669.25 \$4,907.85		
20	\$71,359.49	\$237.86	\$219.02	\$71,139.13	\$4,907.83 \$5,145.71		
22	\$71,139.13	\$237.13	\$221.09	\$70,918.04	\$5,382.84		
23	\$70,918.04	\$236.39	\$221.82	\$70,696.22	\$5,619.24		
24 25	\$70,696.22 \$70,473.66	\$235.65 \$234.91	\$222.56 \$223.31	\$70,473.66 \$70,250,25	\$5,854.89 \$6,089.80		
26	\$70,250.35	\$234.91	\$224.05	\$70,250.35 \$70,026.30	\$6,323.97		
27	\$70,026.30	\$233.42	\$224.80	\$69,801.50	\$6,557.39		
28	\$69,801.50 \$60,575,06	\$232.67 \$231.02	\$225.55	\$69,575.96 \$60,340,66	\$6,790.06 \$7,021.08		
29 30	\$69,575.96 \$69,349.66	\$231.92 \$231.17	\$226.30 \$227.05	\$69,349.66 \$69,122.61	\$7,021.98 \$7,253.15		
31	\$69,122.61	\$230.41	\$227.81	\$68,894.80	\$7,483.56		
32	\$68,894.80	\$229.65	\$228.57	\$68,666.23	\$7,713.21		
33 34	\$68,666.23 \$68,436.90	\$228.89 \$228.12	\$229.33 \$230.10	\$68,436.90 \$68,206.80	\$7,942.09 \$8,170.22		
35	\$68,206.80	\$227.36	\$230.86	\$67,975.94	\$8,397.57		
36	\$67,975.94	\$226.59	\$231.63	\$67,744.31	\$8,624.16		
37 38	\$67,744.31 \$67,511.90	\$225.81 \$225.04	\$232.40 \$233.18	\$67,511.90 \$67,278.73	\$8,849.97 \$9,075.01		
39	\$67,278.73	\$224.26	\$233.96	\$67,044.77	\$9,299.28		
40	\$67,044.77	\$223.48	\$234.74	\$66,810.03	\$9,522.76		
41 42	\$66,810.03 \$66,574.52	\$222.70 \$221.92	\$235.52 \$236.30	\$66,574.52 \$66,338.21	\$9,745.46 \$9,967.37		
43	\$66,338.21	\$221.13	\$237.09	\$66,101.12	\$10,188.50		
44	\$66,101.12	\$220.34	\$237.88	\$65,863.24	\$10,408.84		
45 46	\$65,863.24 \$65,624.57	\$219.54 \$218.75	\$238.67 \$239.47	\$65,624.57 \$65,385.10	\$10,628.38 \$10,847.13		
40	\$65,385.10	\$217.95	\$240.27	\$65,144.83	\$11,065.08		
48	\$65,144.83	\$217.15	\$241.07	\$64,903.76	\$11,282.23		
49 50	\$64,903.76 \$64,661.89	\$216.35 \$215.54	\$241.87 \$242.68	\$64,661.89 \$64,419.21	\$11,498.58 \$11,714.12		
50	\$64,661.89 \$64,419.21	\$215.54 \$214.73	\$242.08 \$243.49	\$64,419.21 \$64,175.72	\$11,714.12 \$11,928.85		
52	\$64,175.72	\$213.92	\$244.30	\$63,931.42	\$12,142.77		
53	\$63,931.42	\$213.10 \$212.20	\$245.11 \$245.02	\$63,686.31 \$63,440,38	\$12,355.87 \$12,568.16		
54 55	\$63,686.31 \$63,440.38	\$212.29 \$211.47	\$245.93 \$246.75	\$63,440.38 \$63,193.63	\$12,779.63		
56	\$63,193.63	\$210.65	\$247.57	\$62,946.06	\$12,990.27		
57	\$62,946.06 \$62,607,66	\$209.82	\$248.40 \$240.22	\$62,697.66	\$13,200.09 \$13,400.08		
58 59	\$62,697.66 \$62,448.43	\$208.99 \$208.16	\$249.23 \$250.06	\$62,448.43 \$62,198.38	\$13,409.08 \$13,617.24		
60	\$62,198.38	\$207.33	\$250.89	\$61,947.49	\$13,824.57		
61	\$61,947.49	\$206.49	\$251.73	\$61,695.76	\$14,031.06		
62 63	\$61,695.76 \$61,443.20	\$205.65 \$204.81	\$252.57 \$253.41	\$61,443.20 \$61,189.79	\$14,236.72 \$14,441.53		
64	\$61,189.79	\$203.97	\$254.25	\$60,935.54	\$14,645.49		
65	\$60,935.54	\$203.12	\$255.10	\$60,680.44	\$14,848.61		
66 67	\$60,680.44 \$60,424.49	\$202.27 \$201.41	\$255.95 \$256.80	\$60,424.49 \$60,167.68	\$15,050.88 \$15,252.30		
68	\$60,167.68	\$200.56	\$257.66	\$59,910.02	\$15,452.85		
69	\$59,910.02	\$199.70	\$258.52	\$59,651.51	\$15,652.55		

						D (Discount Factor) =	165.0218582
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$458.22
\$75,616.00	4.00%	20	\$458.22				
Month 70	StartingBalance \$59,651.51	Interest \$198.84	Principal \$259.38	EndingBalance \$59,392.13	TotalInterest \$15,851.39		
71	\$59,392.13	\$197.97	\$260.24	\$59,131.88	\$16,049.37		
72	\$59,131.88	\$197.11	\$261.11	\$58,870.77	\$16,246.47		
73	\$58,870.77	\$196.24	\$261.98	\$58,608.79	\$16,442.71		
74	\$58,608.79 \$58,245,02	\$195.36	\$262.86 \$262.72	\$58,345.93 \$58,082,20	\$16,638.07 \$16,832.56		
75 76	\$58,345.93 \$58,082.20	\$194.49 \$193.61	\$263.73 \$264.61	\$58,082.20 \$57,817.59	\$16,832.56 \$17,026.16		
77	\$57,817.59	\$192.73	\$265.49	\$57,552.10	\$17,218.89		
78	\$57,552.10	\$191.84	\$266.38	\$57,285.72	\$17,410.73		
79	\$57,285.72	\$190.95	\$267.27	\$57,018.45	\$17,601.68		
80	\$57,018.45	\$190.06	\$268.16	\$56,750.30	\$17,791.74		
81 82	\$56,750.30 \$56,481.25	\$189.17 \$188.27	\$269.05 \$269.95	\$56,481.25 \$56,211.30	\$17,980.91 \$18,169.18		
83	\$56,211.30	\$187.37	\$270.85	\$55,940.45	\$18,356.55		
84	\$55,940.45	\$186.47	\$271.75	\$55,668.70	\$18,543.02		
85	\$55,668.70	\$185.56	\$272.66	\$55,396.05	\$18,728.58		
86	\$55,396.05	\$184.65	\$273.56	\$55,122.48	\$18,913.24		
87	\$55,122.48 \$54,848,01	\$183.74	\$274.48 \$275.20	\$54,848.01 \$54,572,61	\$19,096.98 \$10,270,81		
88 89	\$54,848.01 \$54,572.61	\$182.83 \$181.91	\$275.39 \$276.31	\$54,572.61 \$54,296.31	\$19,279.81 \$19,461.71		
90	\$54,296.31	\$180.99	\$277.23	\$54,019.07	\$19,642.70		
91	\$54,019.07	\$180.06	\$278.15	\$53,740.92	\$19,822.77		
92	\$53,740.92	\$179.14	\$279.08	\$53,461.84	\$20,001.90		
93	\$53,461.84	\$178.21	\$280.01	\$53,181.83	\$20,180.11		
94	\$53,181.83	\$177.27	\$280.95	\$52,900.88	\$20,357.38		
95 96	\$52,900.88 \$52,619.00	\$176.34 \$175.40	\$281.88 \$282.82	\$52,619.00 \$52,336.18	\$20,533.72 \$20,709.11		
97	\$52,336.18	\$174.45	\$283.76	\$52,052.41	\$20,883.57		
98	\$52,052.41	\$173.51	\$284.71	\$51,767.70	\$21,057.08		
99	\$51,767.70	\$172.56	\$285.66	\$51,482.04	\$21,229.64		
100	\$51,482.04	\$171.61	\$286.61	\$51,195.43	\$21,401.24		
101	\$51,195.43	\$170.65	\$287.57	\$50,907.87	\$21,571.89		
102 103	\$50,907.87 \$50,619.34	\$169.69 \$168.73	\$288.53 \$289.49	\$50,619.34 \$50,329.85	\$21,741.59 \$21,910.32		
103	\$50,329.85	\$167.77	\$290.45	\$50,039.40	\$22,078.08		
105	\$50,039.40	\$166.80	\$291.42	\$49,747.98	\$22,244.88		
106	\$49,747.98	\$165.83	\$292.39	\$49,455.59	\$22,410.71		
107	\$49,455.59	\$164.85	\$293.37	\$49,162.23	\$22,575.56		
108	\$49,162.23 \$48,867.88	\$163.87	\$294.34 \$205.22	\$48,867.88 \$48,572,56	\$22,739.43		
109 110	\$48,572.56	\$162.89 \$161.91	\$295.33 \$296.31	\$48,572.56 \$48,276.25	\$22,902.33 \$23,064.24		
111	\$48,276.25	\$160.92	\$297.30	\$47,978.95	\$23,225.16		
112	\$47,978.95	\$159.93	\$298.29	\$47,680.66	\$23,385.09		
113	\$47,680.66	\$158.94	\$299.28	\$47,381.38	\$23,544.02		
114	\$47,381.38	\$157.94	\$300.28	\$47,081.10	\$23,701.96		
115 116	\$47,081.10 \$46,779.82	\$156.94 \$155.93	\$301.28 \$302.29	\$46,779.82 \$46,477.53	\$23,858.90 \$24,014.83		
117	\$46,477.53	\$154.93	\$303.29	\$46,174.24	\$24,014.83 \$24,169.75		
118	\$46,174.24	\$153.91	\$304.30	\$45,869.93	\$24,323.67		
119	\$45,869.93	\$152.90	\$305.32	\$45,564.62	\$24,476.57		
120	\$45,564.62	\$151.88	\$306.34	\$45,258.28	\$24,628.45		
121	\$45,258.28 \$44,950,92	\$150.86 \$140.84	\$307.36 \$308.38	\$44,950.92 \$44,642,54	\$24,779.31 \$24,929,15		
122 123	\$44,950.92 \$44,642.54	\$149.84 \$148.81	\$308.38 \$309.41	\$44,642.54 \$44,333.13	\$24,929.15 \$25,077.96		
123	\$44,333.13	\$147.78	\$310.44	\$44,022.69	\$25,225.73		
125	\$44,022.69	\$146.74	\$311.48	\$43,711.22	\$25,372.48		
126	\$43,711.22	\$145.70	\$312.51	\$43,398.70	\$25,518.18		
127	\$43,398.70	\$144.66	\$313.56	\$43,085.15	\$25,662.84		
128 129	\$43,085.15 \$42,770.54	\$143.62 \$142.57	\$314.60 \$315.65	\$42,770.54 \$42,454.89	\$25,806.46 \$25,949,03		
129	\$42,770.54 \$42,454.89	\$142.57 \$141.52	\$315.65	\$42,454.89 \$42,138.19	\$25,949.03 \$26,090.54		
131	\$42,138.19	\$140.46	\$317.76	\$41,820.44	\$26,231.00		
132	\$41,820.44	\$139.40	\$318.82	\$41,501.62	\$26,370.41		
133	\$41,501.62	\$138.34	\$319.88	\$41,181.74	\$26,508.75		
134	\$41,181.74	\$137.27	\$320.95	\$40,860.79	\$26,646.02		
135 136	\$40,860.79 \$40,538.78	\$136.20 \$135.13	\$322.02 \$323.09	\$40,538.78 \$40,215.69	\$26,782.22 \$26,917,35		
136	\$40,538.78 \$40,215.69	\$135.13 \$134.05	\$323.09 \$324.17	\$40,215.69 \$39,891.52	\$26,917.35 \$27,051.40		
138	\$39,891.52	\$132.97	\$325.25	\$39,566.28	\$27,184.37		
139	\$39,566.28	\$131.89	\$326.33	\$39,239.95	\$27,316.26		
140	\$39,239.95	\$130.80	\$327.42	\$38,912.53	\$27,447.06		
141	\$38,912.53	\$129.71	\$328.51	\$38,584.02	\$27,576.77		
142 143	\$38,584.02 \$38,254.41	\$128.61 \$127.51	\$329.60 \$330.70	\$38,254.41 \$37,923.71	\$27,705.38 \$27,832.90		
140	ψ00,204.41	φ121.31	ψ000.70	ψ01,920.11	ψ21,052.90		

						D (Discount Easter) -	165.0218582
Loon Amount	Interest Pate	Term in Years	Monthly Payment			D (Discount Factor) = P = A/D	\$458.22
Loan Amount \$75,616.00	Interest Rate 4.00%	20	\$458.22			P = A/D	\$458.ZZ
φ <i>1</i> 3,0 10.00	4.0070	20	ψ+30.22				
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest		
144	\$37,923.71	\$126.41	\$331.81	\$37,591.91	\$27,959.31		
145	\$37,591.91	\$125.31	\$332.91	\$37,258.99	\$28,084.62		
146	\$37,258.99	\$124.20 \$122.08	\$334.02	\$36,924.97 \$36,580,84	\$28,208.81 \$28,221.00		
147 148	\$36,924.97 \$36,589.84	\$123.08 \$121.97	\$335.13 \$336.25	\$36,589.84 \$36,253.59	\$28,331.90 \$28,453.86		
149	\$36,253.59	\$120.85	\$337.37	\$35,916.21	\$28,574.71		
150	\$35,916.21	\$119.72	\$338.50	\$35,577.72	\$28,694.43		
151	\$35,577.72	\$118.59	\$339.63	\$35,238.09	\$28,813.02		
152	\$35,238.09	\$117.46	\$340.76	\$34,897.33	\$28,930.48 \$20.046.81		
153 154	\$34,897.33 \$34,555.44	\$116.32 \$115.18	\$341.89 \$343.03	\$34,555.44 \$34,212.40	\$29,046.81 \$29,161.99		
155	\$34,212.40	\$114.04	\$344.18	\$33,868.23	\$29,276.03		
156	\$33,868.23	\$112.89	\$345.32	\$33,522.90	\$29,388.93		
157	\$33,522.90	\$111.74	\$346.48	\$33,176.43	\$29,500.67		
158 159	\$33,176.43	\$110.59 \$109.43	\$347.63 \$348.79	\$32,828.80	\$29,611.26 \$20,720,60		
160	\$32,828.80 \$32,480.01	\$109.43	\$349.95	\$32,480.01 \$32,130.06	\$29,720.69 \$29,828.95		
161	\$32,130.06	\$107.10	\$351.12	\$31,778.94	\$29,936.05		
162	\$31,778.94	\$105.93	\$352.29	\$31,426.65	\$30,041.98		
163	\$31,426.65	\$104.76	\$353.46	\$31,073.19	\$30,146.74		
164 165	\$31,073.19 \$30,718,55	\$103.58 \$102.40	\$354.64	\$30,718.55 \$20,262,72	\$30,250.32 \$30,252,71		
166	\$30,718.55 \$30,362.73	\$102.40 \$101.21	\$355.82 \$357.01	\$30,362.73 \$30,005.72	\$30,352.71 \$30,453.92		
167	\$30,005.72	\$100.02	\$358.20	\$29,647.52	\$30,553.94		
168	\$29,647.52	\$98.83	\$359.39	\$29,288.13	\$30,652.76		
169	\$29,288.13	\$97.63	\$360.59	\$28,927.53	\$30,750.39		
170	\$28,927.53 \$28,565,74	\$96.43 \$95.22	\$361.79	\$28,565.74 \$28,202,74	\$30,846.82		
171 172	\$28,565.74 \$28,202.74	\$95.22 \$94.01	\$363.00 \$364.21	\$28,202.74 \$27,838.53	\$30,942.04 \$31,036.04		
173	\$27,838.53	\$92.80	\$365.42	\$27,473.11	\$31,128.84		
174	\$27,473.11	\$91.58	\$366.64	\$27,106.47	\$31,220.42		
175	\$27,106.47	\$90.35	\$367.86	\$26,738.61	\$31,310.77		
176 177	\$26,738.61 \$26,260,52	\$89.13 \$87.00	\$369.09	\$26,369.52 \$25,000,20	\$31,399.90 \$31,487,80		
178	\$26,369.52 \$25,999.20	\$87.90 \$86.66	\$370.32 \$371.55	\$25,999.20 \$25,627.64	\$31,487.80 \$31,574.46		
179	\$25,627.64	\$85.43	\$372.79	\$25,254.85	\$31,659.89		
180	\$25,254.85	\$84.18	\$374.04	\$24,880.82	\$31,744.07		
181	\$24,880.82	\$82.94	\$375.28	\$24,505.53	\$31,827.01		
182 183	\$24,505.53	\$81.69 \$80.42	\$376.53	\$24,129.00	\$31,908.69 \$31,080,12		
184	\$24,129.00 \$23,751.21	\$80.43 \$79.17	\$377.79 \$379.05	\$23,751.21 \$23,372.16	\$31,989.12 \$32,068.29		
185	\$23,372.16	\$77.91	\$380.31	\$22,991.85	\$32,146.20		
186	\$22,991.85	\$76.64	\$381.58	\$22,610.28	\$32,222.84		
187	\$22,610.28	\$75.37	\$382.85	\$22,227.42	\$32,298.21		
188 189	\$22,227.42 \$21,843.30	\$74.09 \$72.81	\$384.13 \$385.41	\$21,843.30 \$21,457.89	\$32,372.30 \$32,445.11		
190	\$21,457.89	\$71.53	\$386.69	\$21,071.20	\$32,516.64		
191	\$21,071.20	\$70.24	\$387.98	\$20,683.22	\$32,586.87		
192	\$20,683.22	\$68.94	\$389.27	\$20,293.94	\$32,655.82		
193	\$20,293.94	\$67.65	\$390.57	\$19,903.37	\$32,723.46		
194 195	\$19,903.37 \$19,511.50	\$66.34 \$65.04	\$391.87 \$393.18	\$19,511.50 \$19,118.32	\$32,789.81 \$32,854.85		
195	\$19,511.50 \$19,118.32	\$63.73	\$393.18 \$394.49	\$19,118.32 \$18,723.83	\$32,854.85 \$32,918.57		
197	\$18,723.83	\$62.41	\$395.81	\$18,328.02	\$32,980.99		
198	\$18,328.02	\$61.09	\$397.12	\$17,930.90	\$33,042.08		
199	\$17,930.90	\$59.77	\$398.45	\$17,532.45	\$33,101.85		
200 201	\$17,532.45 \$17,132.67	\$58.44 \$57.11	\$399.78 \$401.11	\$17,132.67 \$16,731.57	\$33,160.29 \$33,217.40		
201	\$16,731.57	\$55.77	\$402.45	\$16,329.12	\$33,273.17		
202	\$16,329.12	\$54.43	\$403.79	\$15,925.33	\$33,327.60		
204	\$15,925.33	\$53.08	\$405.13	\$15,520.20	\$33,380.69		
205	\$15,520.20	\$51.73	\$406.48	\$15,113.71	\$33,432.42		
206 207	\$15,113.71 \$14,705,87	\$50.38 \$49.02	\$407.84 \$409.20	\$14,705.87 \$14,296,68	\$33,482.80 \$33,531,82		
207 208	\$14,705.87 \$14,296.68	\$49.02 \$47.66	\$409.20 \$410.56	\$14,296.68 \$13,886.11	\$33,531.82 \$33,579.48		
200	\$13,886.11	\$46.29	\$411.93	\$13,474.18	\$33,625.76		
210	\$13,474.18	\$44.91	\$413.30	\$13,060.88	\$33,670.68		
211	\$13,060.88	\$43.54	\$414.68	\$12,646.20	\$33,714.21		
212	\$12,646.20 \$12,230,13	\$42.15 \$40.77	\$416.06 \$417.45	\$12,230.13 \$11,812,68	\$33,756.37 \$33,707,13		
213 214	\$12,230.13 \$11,812.68	\$40.77 \$39.38	\$417.45 \$418.84	\$11,812.68 \$11,393.84	\$33,797.13 \$33,836.51		
214	\$11,393.84	\$37.98	\$420.24	\$10,973.60	\$33,874.49		
216	\$10,973.60	\$36.58	\$421.64	\$10,551.96	\$33,911.07		
217	\$10,551.96	\$35.17	\$423.04	\$10,128.92	\$33,946.24		

						D (Discount Factor) =	165.0218582
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$458.22
\$75,616.00	4.00%	20	\$458.22				
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest		
218	\$10,128.92	\$33.76	\$424.46	\$9,704.46	\$33,980.00		
219	\$9,704.46	\$32.35	\$425.87	\$9,278.59	\$34,012.35		
220	\$9,278.59	\$30.93	\$427.29	\$8,851.30	\$34,043.28		
221	\$8,851.30	\$29.50	\$428.71	\$8,422.59	\$34,072.78		
222	\$8,422.59	\$28.08	\$430.14	\$7,992.45	\$34,100.86		
223	\$7,992.45	\$26.64	\$431.58	\$7,560.87	\$34,127.50		
224	\$7,560.87	\$25.20	\$433.02	\$7,127.85	\$34,152.70		
225	\$7,127.85	\$23.76	\$434.46	\$6,693.39	\$34,176.46		
226	\$6,693.39	\$22.31	\$435.91	\$6,257.49	\$34,198.78		
227	\$6,257.49	\$20.86	\$437.36	\$5,820.13	\$34,219.63		
228	\$5,820.13	\$19.40	\$438.82	\$5,381.31	\$34,239.03		
229	\$5,381.31	\$17.94	\$440.28	\$4,941.03	\$34,256.97		
230	\$4,941.03	\$16.47	\$441.75	\$4,499.28	\$34,273.44		
231	\$4,499.28	\$15.00	\$443.22	\$4,056.06	\$34,288.44		
232	\$4,056.06	\$13.52	\$444.70	\$3,611.36	\$34,301.96		
233	\$3,611.36	\$12.04	\$446.18	\$3,165.18	\$34,314.00		
234	\$3,165.18	\$10.55	\$447.67	\$2,717.52	\$34,324.55		
235	\$2,717.52	\$9.06	\$449.16	\$2,268.36	\$34,333.61		
236	\$2,268.36	\$7.56	\$450.66	\$1,817.70	\$34,341.17		
237	\$1,817.70	\$6.06	\$452.16	\$1,365.54	\$34,347.23		
238	\$1,365.54	\$4.55	\$453.67	\$911.87	\$34,351.78		
239	\$911.87	\$3.04	\$455.18	\$456.70	\$34,354.82		
240	\$456.70	\$1.52	\$456.70	\$0.00	\$34,356.34		

						D (Discount Factor) =	98.77017486
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$308.04
\$30,425.00	4.00%	10	\$308.04				
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest		
1	\$30,425.00	\$101.42	\$206.62	\$30,218.38	\$101.42		
2	\$30,218.38	\$100.73	\$207.31	\$30,011.07	\$202.14		
3	\$30,011.07	\$100.04	\$208.00	\$29,803.07	\$302.18		
4	\$29,803.07	\$99.34	\$208.69	\$29,594.37	\$401.53		
5	\$29,594.37	\$98.65	\$209.39	\$29,384.98	\$500.17		
6	\$29,384.98	\$97.95	\$210.09	\$29,174.89	\$598.12		
7	\$29,174.89	\$97.25	\$210.79	\$28,964.10	\$695.37		
8	\$28,964.10	\$96.55	\$211.49	\$28,752.61	\$791.92		
9	\$28,752.61	\$95.84	\$212.20	\$28,540.42	\$887.76		
10	\$28,540.42	\$95.13	\$212.90	\$28,327.51	\$982.90		
11	\$28,327.51	\$94.43	\$213.61	\$28,113.90	\$1,077.32		
12	\$28,113.90	\$93.71	\$214.33	\$27,899.57	\$1,171.03		
13	\$27,899.57	\$93.00	\$215.04	\$27,684.53	\$1,264.03		
14	\$27,684.53	\$92.28	\$215.76	\$27,468.78	\$1,356.31		
15	\$27,468.78	\$91.56	\$216.48	\$27,252.30	\$1,447.88		
16	\$27,252.30	\$90.84	\$217.20 \$217.00	\$27,035.10	\$1,538.72 \$1,638.84		
17 18	\$27,035.10 \$26,817,18	\$90.12 \$80.30	\$217.92 \$218.65	\$26,817.18 \$26,508,54	\$1,628.84 \$1,718.22		
18	\$26,817.18 \$26,598.54	\$89.39 \$88.66	\$218.65 \$219.38	\$26,598.54 \$26,379.16	\$1,718.23 \$1,806.89		
20	\$26,379.16	\$87.93	\$219.38	\$26,159.05	\$1,800.89 \$1,894.82		
20	\$26,159.05	\$87.20	\$220.84	\$25,938.21	\$1,982.02 \$1,982.02		
22	\$25,938.21	\$86.46	\$221.58	\$25,716.63	\$2,068.48		
23	\$25,716.63	\$85.72	\$222.32	\$25,494.32	\$2,154.20		
24 25	\$25,494.32	\$84.98 \$84.24	\$223.06	\$25,271.26 \$25.047.46	\$2,239.18 \$2,232.42		
25 26	\$25,271.26 \$25,047.46	\$84.24 \$83.49	\$223.80 \$224.55	\$25,047.46 \$24,822.91	\$2,323.42 \$2,406.91		
27	\$24,822.91	\$82.74	\$225.30	\$24,597.62	\$2,489.65		
28	\$24,597.62	\$81.99	\$226.05	\$24,371.57	\$2,571.64		
29 30	\$24,371.57 \$24,144.77	\$81.24 \$80.48	\$226.80 \$227.56	\$24,144.77 \$23,917.21	\$2,652.88 \$2,733.36		
31	\$23,917.21	\$79.72	\$228.31	\$23,688.90	\$2,813.09		
32	\$23,688.90	\$78.96	\$229.08	\$23,459.82	\$2,892.05		
33 34	\$23,459.82 \$23,229.99	\$78.20 \$77.43	\$229.84 \$230.61	\$23,229.99 \$22,999.38	\$2,970.25 \$3,047.68		
35	\$22,999.38	\$76.66	\$231.37	\$22,768.01	\$3,124.35		
36	\$22,768.01	\$75.89	\$232.14	\$22,535.86	\$3,200.24		
37	\$22,535.86	\$75.12	\$232.92	\$22,302.94	\$3,275.36		
38 39	\$22,302.94 \$22,069.25	\$74.34 \$73.56	\$233.70 \$234.47	\$22,069.25 \$21,834.77	\$3,349.70 \$3,423.27		
40	\$21,834.77	\$72.78	\$235.26	\$21,599.52	\$3,496.05		
41	\$21,599.52	\$72.00	\$236.04	\$21,363.48	\$3,568.05		
42 43	\$21,363.48 \$21,126.65	\$71.21 \$70.42	\$236.83 \$237.62	\$21,126.65 \$20,889.04	\$3,639.26 \$3,709.68		
43	\$20,889.04	\$69.63	\$238.41	\$20,650.63	\$3,779.31		
45	\$20,650.63	\$68.84	\$239.20	\$20,411.42	\$3,848.15		
46	\$20,411.42	\$68.04	\$240.00	\$20,171.42	\$3,916.19		
47 48	\$20,171.42 \$19,930.62	\$67.24 \$66.44	\$240.80 \$241.60	\$19,930.62 \$19,689.02	\$3,983.43 \$4,049.86		
40	\$19,689.02	\$65.63	\$242.41	\$19,446.61	\$4,115.49		
50	\$19,446.61	\$64.82	\$243.22	\$19,203.40	\$4,180.31		
51 52	\$19,203.40 \$18,959.37	\$64.01 \$63.20	\$244.03 \$244.84	\$18,959.37 \$18,714.53	\$4,244.32 \$4,307.52		
53	\$18,714.53	\$62.38	\$245.66	\$18,468.87	\$4,369.90		
54	\$18,468.87	\$61.56	\$246.48	\$18,222.40	\$4,431.47		
55 56	\$18,222.40 \$17,075,10	\$60.74 \$50.02	\$247.30 \$248.12	\$17,975.10 \$17,726.08	\$4,492.21 \$4,552.12		
56 57	\$17,975.10 \$17,726.98	\$59.92 \$59.09	\$248.12 \$248.95	\$17,726.98 \$17,478.03	\$4,552.12 \$4,611.21		
58	\$17,478.03	\$58.26	\$249.78	\$17,228.25	\$4,669.47		
59	\$17,228.25	\$57.43	\$250.61	\$16,977.64	\$4,726.90		
60 61	\$16,977.64 \$16,726.19	\$56.59 \$55.75	\$251.45 \$252.28	\$16,726.19 \$16,473.91	\$4,783.49 \$4,839.25		
62	\$16,473.91	\$55.75 \$54.91	\$253.13	\$16,220.79	\$4,894.16		
63	\$16,220.79	\$54.07	\$253.97	\$15,966.82	\$4,948.23		
64 65	\$15,966.82 \$15,712,00	\$53.22 \$52.27	\$254.82 \$255.66	\$15,712.00 \$15,456,24	\$5,001.45 \$5,052.82		
65 66	\$15,712.00 \$15,456.34	\$52.37 \$51.52	\$255.66 \$256.52	\$15,456.34 \$15,199.82	\$5,053.83 \$5,105.35		
67	\$15,199.82	\$50.67	\$257.37	\$14,942.45	\$5,156.01		
68	\$14,942.45	\$49.81	\$258.23	\$14,684.22	\$5,205.82		
69	\$14,684.22	\$48.95	\$259.09	\$14,425.12	\$5,254.77		

						D (Discount Factor) =	98.77017486
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$308.04
\$30,425.00	4.00%	10	\$308.04				
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest		
70	\$14,425.12	\$48.08	\$259.95	\$14,165.17	\$5,302.85		
71	\$14,165.17	\$47.22	\$260.82	\$13,904.35	\$5,350.07		
72	\$13,904.35	\$46.35	\$261.69	\$13,642.66	\$5,396.42		
73	\$13,642.66	\$45.48	\$262.56	\$13,380.10	\$5,441.89		
74	\$13,380.10	\$44.60	\$263.44	\$13,116.66	\$5,486.49		
75	\$13,116.66	\$43.72	\$264.32	\$12,852.34	\$5,530.22		
76	\$12,852.34	\$42.84	\$265.20	\$12,587.14	\$5,573.06		
77	\$12,587.14	\$41.96	\$266.08	\$12,321.06	\$5,615.01		
78	\$12,321.06	\$41.07	\$266.97	\$12,054.10	\$5,656.09		
79	\$12,054.10	\$40.18	\$267.86	\$11,786.24	\$5,696.27		
80	\$11,786.24	\$39.29	\$268.75	\$11,517.49	\$5,735.55		
81	\$11,517.49	\$38.39	\$269.65	\$11,247.84	\$5,773.94		
82	\$11,247.84	\$37.49	\$270.55	\$10,977.29	\$5,811.44		
83	\$10,977.29	\$36.59	\$271.45	\$10,705.85	\$5,848.03		
84	\$10,705.85	\$35.69	\$272.35	\$10,433.49	\$5,883.71		
85	\$10,433.49	\$34.78	\$273.26	\$10,160.23	\$5,918.49		
86	\$10,160.23	\$33.87	\$274.17	\$9,886.06	\$5,952.36		
87	\$9,886.06	\$32.95	\$275.08	\$9,610.98	\$5,985.31		
88	\$9,610.98	\$32.04	\$276.00	\$9,334.98	\$6,017.35		
89	\$9,334.98	\$31.12	\$276.92	\$9,058.06	\$6,048.47		
90	\$9,058.06	\$30.19	\$277.84	\$8,780.21	\$6,078.66		
91	\$8,780.21	\$29.27	\$278.77	\$8,501.44	\$6,107.93		
92	\$8,501.44	\$28.34	\$279.70	\$8,221.74	\$6,136.27		
93	\$8,221.74 \$7.041.11	\$27.41 \$26.47	\$280.63 \$281.57	\$7,941.11 \$7,650.54	\$6,163.67 \$6,100.14		
94 95	\$7,941.11 \$7,659.54	\$26.47 \$25.53	\$281.57 \$282.51	\$7,659.54 \$7,377.03	\$6,190.14 \$6,215.67		
96	\$7,377.03	\$24.59	\$283.45	\$7,093.58	\$6,240.26		
97	\$7,093.58	\$23.65	\$284.39	\$6,809.19	\$6,263.91		
98	\$6,809.19	\$22.70	\$285.34	\$6,523.85	\$6,286.61		
99	\$6,523.85	\$21.75	\$286.29	\$6,237.56	\$6,308.35		
100	\$6,237.56	\$20.79	\$287.25	\$5,950.31	\$6,329.14		
101	\$5,950.31	\$19.83	\$288.20	\$5,662.11	\$6,348.98		
102	\$5,662.11	\$18.87	\$289.16	\$5,372.94	\$6,367.85		
103	\$5,372.94	\$17.91	\$290.13	\$5,082.81	\$6,385.76		
104	\$5,082.81	\$16.94	\$291.10	\$4,791.72	\$6,402.71		
105	\$4,791.72	\$15.97	\$292.07	\$4,499.65	\$6,418.68		
106	\$4,499.65	\$15.00	\$293.04	\$4,206.61	\$6,433.68		
107	\$4,206.61	\$14.02	\$294.02	\$3,912.60	\$6,447.70		
108	\$3,912.60	\$13.04	\$295.00	\$3,617.60	\$6,460.74		
109	\$3,617.60	\$12.06	\$295.98	\$3,321.62	\$6,472.80		
110	\$3,321.62	\$11.07	\$296.97	\$3,024.65	\$6,483.87		
111	\$3,024.65	\$10.08	\$297.96	\$2,726.70	\$6,493.95		
112	\$2,726.70	\$9.09	\$298.95	\$2,427.75	\$6,503.04		
113	\$2,427.75	\$8.09	\$299.95	\$2,127.80	\$6,511.13		
114	\$2,127.80	\$7.09	\$300.95	\$1,826.86	\$6,518.23		
115	\$1,826.86	\$6.09	\$301.95	\$1,524.91	\$6,524.32		
116	\$1,524.91	\$5.08	\$302.96	\$1,221.95	\$6,529.40		
117	\$1,221.95	\$4.07	\$303.97	\$917.99 \$612.01	\$6,533.47		
118	\$917.99 \$612.01	\$3.06 \$2.04	\$304.98 \$205.00	\$613.01 \$207.01	\$6,536.53 \$6,538.58		
119 120	\$613.01 \$307.01	\$2.04 \$1.02	\$305.99 \$307.01	\$307.01 \$0.00	\$6,538.58 \$6,539.60		
120	φ307.01	φ1.0Z	φ307.01	φ0.00	φ0,009.00		

						D (Discount Factor) =	135.1921487
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$225.05
\$30,425.00	4.00%	15	\$225.05				
		Lada and d	Distant	E	Tatallatanaat		
Month	StartingBalance	Interest \$101.42	Principal	EndingBalance	TotalInterest \$101.42		
1 2	\$30,425.00 \$30,301.37	\$101.42	\$123.63 \$124.05	\$30,301.37 \$30,177.32	\$101.42 \$202.42		
3	\$30,177.32	\$100.59	\$124.05	\$30,052.86	\$202.42		
	\$30,052.86	\$100.59	\$124.87	\$30,052.80 \$29,927.99	\$303.01 \$403.19		
4 5	\$29,927.99	\$99.76	\$124.07	\$29,802.70	\$403.19 \$502.95		
6	\$29,802.70	\$99.34	\$125.71	\$29,676.99	\$602.29		
7	\$29,676.99	\$98.92	\$126.13	\$29,550.86	\$701.21		
8	\$29,550.86	\$98.50	\$126.55	\$29,424.32	\$799.72		
9	\$29,424.32	\$98.08	\$126.97	\$29,297.35	\$897.80		
10	\$29,297.35	\$97.66	\$127.39	\$29,169.96	\$995.46		
11	\$29,169.96	\$97.23	\$127.82	\$29,042.14	\$1,092.69		
12	\$29,042.14	\$96.81	\$128.24	\$28,913.90	\$1,189.50		
13	\$28,913.90	\$96.38	\$128.67	\$28,785.23	\$1,285.88		
14	\$28,785.23	\$95.95	\$129.10	\$28,656.13	\$1,381.83		
15	\$28,656.13	\$95.52	\$129.53	\$28,526.60	\$1,477.35		
16	\$28,526.60	\$95.09	\$129.96	\$28,396.63	\$1,572.44		
17	\$28,396.63	\$94.66	\$130.39	\$28,266.24	\$1,667.09		
18	\$28,266.24	\$94.22	\$130.83	\$28,135.41	\$1,761.31		
19	\$28,135.41	\$93.78	\$131.27	\$28,004.15	\$1,855.10		
20	\$28,004.15	\$93.35	\$131.70	\$27,872.44	\$1,948.44		
21	\$27,872.44	\$92.91	\$132.14	\$27,740.30	\$2,041.35		
22 23	\$27,740.30 \$27,607.72	\$92.47 \$92.03	\$132.58 \$133.02	\$27,607.72 \$27,474.69	\$2,133.82 \$2,225.85		
23	\$27,474.69	\$91.58	\$133.47	\$27,341.23	\$2,317.43		
25	\$27,341.23	\$91.14	\$133.91	\$27,207.31	\$2,408.57		
26	\$27,207.31	\$90.69	\$134.36	\$27,072.95	\$2,499.26		
27 28	\$27,072.95 \$26,938.15	\$90.24 \$89.79	\$134.81 \$135.26	\$26,938.15 \$26,802.89	\$2,589.50 \$2,679.29		
29	\$26,802.89	\$89.34	\$135.71	\$26,667.18	\$2,768.64		
30	\$26,667.18	\$88.89	\$136.16	\$26,531.03	\$2,857.53		
31 32	\$26,531.03 \$26,394.41	\$88.44 \$87.98	\$136.61 \$137.07	\$26,394.41 \$26,257.34	\$2,945.96 \$3,033.94		
33	\$26,257.34	\$87.52	\$137.53	\$26,119.82	\$3,121.47		
34	\$26,119.82	\$87.07	\$137.98	\$25,981.83	\$3,208.54		
35 36	\$25,981.83 \$25,843.39	\$86.61 \$86.14	\$138.44 \$138.91	\$25,843.39 \$25,704.48	\$3,295.14 \$3,381.29		
37	\$25,704.48	\$85.68	\$139.37	\$25,565.12	\$3,466.97		
38	\$25,565.12	\$85.22	\$139.83	\$25,425.28	\$3,552.18		
39	\$25,425.28	\$84.75	\$140.30	\$25,284.98	\$3,636.94		
40 41	\$25,284.98 \$25,144.22	\$84.28 \$83.81	\$140.77 \$141.24	\$25,144.22 \$25,002.98	\$3,721.22 \$3,805.03		
42	\$25,002.98	\$83.34	\$141.71	\$24,861.27	\$3,888.38		
43	\$24,861.27	\$82.87	\$142.18	\$24,719.09	\$3,971.25		
44	\$24,719.09 \$24,576,44	\$82.40 \$81.02	\$142.65 \$142.12	\$24,576.44 \$24,422.21	\$4,053.64 \$4,135.57		
45 46	\$24,576.44 \$24,433.31	\$81.92 \$81.44	\$143.13 \$143.61	\$24,433.31 \$24,289.71	\$4,135.57 \$4,217.01		
47	\$24,289.71	\$80.97	\$144.08	\$24,145.62	\$4,297.98		
48	\$24,145.62 \$24,001.06	\$80.49 \$80.00	\$144.56 \$145.05	\$24,001.06 \$22,856,01	\$4,378.46 \$4,458.46		
49 50	\$24,001.06 \$23,856.01	\$80.00 \$79.52	\$145.05 \$145.53	\$23,856.01 \$23,710.48	\$4,458.46 \$4,537.98		
51	\$23,710.48	\$79.03	\$146.02	\$23,564.47	\$4,617.02		
52	\$23,564.47	\$78.55	\$146.50	\$23,417.97	\$4,695.57		
53 54	\$23,417.97 \$23,270.98	\$78.06 \$77.57	\$146.99 \$147.48	\$23,270.98 \$23,123.49	\$4,773.63 \$4,851.20		
55	\$23,270.98	\$77.08	\$147.97	\$23,123.49 \$22,975.52	\$4,928.28		
56	\$22,975.52	\$76.59	\$148.46	\$22,827.06	\$5,004.86		
57	\$22,827.06 \$22,678,10	\$76.09 \$75.50	\$148.96 \$140.46	\$22,678.10 \$22,528,64	\$5,080.95 \$5,156,54		
58 59	\$22,678.10 \$22,528.64	\$75.59 \$75.10	\$149.46 \$149.95	\$22,528.64 \$22,378.69	\$5,156.54 \$5,231.64		
60	\$22,378.69	\$74.60	\$150.45	\$22,228.23	\$5,306.24		
61	\$22,228.23	\$74.09	\$150.96	\$22,077.28	\$5,380.33		
62 63	\$22,077.28 \$21,925.82	\$73.59 \$73.09	\$151.46 \$151.96	\$21,925.82 \$21,773.85	\$5,453.92 \$5,527.01		
64	\$21,773.85	\$72.58	\$152.47	\$21,621.38	\$5,599.59		
65	\$21,621.38	\$72.07	\$152.98	\$21,468.40	\$5,671.66		
66 67	\$21,468.40 \$21,314,92	\$71.56 \$71.05	\$153.49 \$154.00	\$21,314.92 \$21,160,02	\$5,743.22 \$5,814,27		
67 68	\$21,314.92 \$21,160.92	\$71.05 \$70.54	\$154.00 \$154.51	\$21,160.92 \$21,006.40	\$5,814.27 \$5,884.81		
69	\$21,006.40	\$70.02	\$155.03	\$20,851.37	\$5,954.83		

						D (Discount Factor) =	135.1921487
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$225.05
\$30,425.00	4.00%	15	\$225.05			P = A/D	φ225.05
φ30,423.00	4.0070	10	φ223.03				
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest		
70	\$20,851.37	\$69.50	\$155.55	\$20,695.83	\$6,024.33		
71	\$20,695.83	\$68.99	\$156.06	\$20,539.76	\$6,093.32		
72	\$20,539.76	\$68.47	\$156.58	\$20,383.18	\$6,161.78		
73 74	\$20,383.18 \$20,226.07	\$67.94 \$67.42	\$157.11 \$157.63	\$20,226.07 \$20,068.44	\$6,229.73 \$6,297.15		
75	\$20,068.44	\$66.89	\$158.16	\$19,910.29	\$6,364.04		
76	\$19,910.29	\$66.37	\$158.68	\$19,751.61	\$6,430.41		
77	\$19,751.61	\$65.84	\$159.21	\$19,592.39	\$6,496.25		
78 79	\$19,592.39 \$19,432.65	\$65.31 \$64.78	\$159.74 \$160.27	\$19,432.65 \$19,272.38	\$6,561.56 \$6,626.33		
80	\$19,272.38	\$64.24	\$160.81	\$19,111.57	\$6,690.57		
81	\$19,111.57	\$63.71	\$161.34	\$18,950.22	\$6,754.28		
82	\$18,950.22	\$63.17	\$161.88	\$18,788.34	\$6,817.45		
83 84	\$18,788.34 \$18,625.92	\$62.63 \$62.09	\$162.42 \$162.96	\$18,625.92 \$18,462.96	\$6,880.07 \$6,942.16		
85	\$18,462.96	\$61.54	\$163.51	\$18,299.45	\$7,003.70		
86	\$18,299.45	\$61.00	\$164.05	\$18,135.40	\$7,064.70		
87	\$18,135.40	\$60.45	\$164.60	\$17,970.80	\$7,125.15		
88 89	\$17,970.80 \$17,805.65	\$59.90 \$59.35	\$165.15 \$165.70	\$17,805.65 \$17,639.95	\$7,185.06 \$7,244.41		
90	\$17,639.95	\$58.80	\$166.25	\$17,473.70	\$7,303.21		
91	\$17,473.70	\$58.25	\$166.80	\$17,306.90	\$7,361.45		
92	\$17,306.90	\$57.69	\$167.36	\$17,139.54	\$7,419.14		
93	\$17,139.54 \$16.071.62	\$57.13 \$56.57	\$167.92 \$168.48	\$16,971.62 \$16,803.14	\$7,476.27 \$7,522.85		
94 95	\$16,971.62 \$16,803.14	\$56.57 \$56.01	\$168.48 \$169.04	\$16,803.14 \$16,634.10	\$7,532.85 \$7,588.86		
96	\$16,634.10	\$55.45	\$169.60	\$16,464.50	\$7,644.30		
97	\$16,464.50	\$54.88	\$170.17	\$16,294.33	\$7,699.19		
98 99	\$16,294.33 \$16,122,60	\$54.31 \$52.75	\$170.74	\$16,123.60 \$15,052.20	\$7,753.50 \$7,807.25		
99 100	\$16,123.60 \$15,952.29	\$53.75 \$53.17	\$171.30 \$171.88	\$15,952.29 \$15,780.41	\$7,807.25 \$7,860.42		
101	\$15,780.41	\$52.60	\$172.45	\$15,607.97	\$7,913.02		
102	\$15,607.97	\$52.03	\$173.02	\$15,434.94	\$7,965.05		
103 104	\$15,434.94 \$15,261.34	\$51.45 \$50.87	\$173.60 \$174.18	\$15,261.34 \$15,087,16	\$8,016.50 \$8,067.37		
105	\$15,087.16	\$50.29	\$174.18 \$174.76	\$15,087.16 \$14,912.40	\$8,067.37 \$8,117.66		
106	\$14,912.40	\$49.71	\$175.34	\$14,737.06	\$8,167.37		
107	\$14,737.06	\$49.12	\$175.93	\$14,561.14	\$8,216.49		
108 109	\$14,561.14 \$14,384.62	\$48.54 \$47.95	\$176.51 \$177.10	\$14,384.62 \$14,207.52	\$8,265.03 \$8,312.98		
110	\$14,207.52	\$47.36	\$177.69	\$14,029.83	\$8,360.34		
111	\$14,029.83	\$46.77	\$178.28	\$13,851.55	\$8,407.10		
112	\$13,851.55	\$46.17	\$178.88	\$13,672.67	\$8,453.27		
113 114	\$13,672.67 \$13,493.19	\$45.58 \$44.98	\$179.47 \$180.07	\$13,493.19 \$13,313.12	\$8,498.85 \$8,543.83		
115	\$13,313.12	\$44.38	\$180.67	\$13,132.45	\$8,588.20		
116	\$13,132.45	\$43.77	\$181.28	\$12,951.17	\$8,631.98		
117	\$12,951.17	\$43.17	\$181.88	\$12,769.29	\$8,675.15		
118 119	\$12,769.29 \$12,586.81	\$42.56 \$41.96	\$182.49 \$183.09	\$12,586.81 \$12,403.71	\$8,717.71 \$8,759.67		
120	\$12,403.71	\$41.35	\$183.70	\$12,220.01	\$8,801.01		
121	\$12,220.01	\$40.73	\$184.32	\$12,035.69	\$8,841.75		
122	\$12,035.69	\$40.12	\$184.93	\$11,850.76	\$8,881.87		
123 124	\$11,850.76 \$11,665.21	\$39.50 \$38.88	\$185.55 \$186.17	\$11,665.21 \$11,479.05	\$8,921.37 \$8,960.25		
124	\$11,479.05	\$38.26	\$186.79	\$11,292.26	\$8,998.52		
126	\$11,292.26	\$37.64	\$187.41	\$11,104.85	\$9,036.16		
127	\$11,104.85	\$37.02	\$188.03	\$10,916.82 \$10,728.46	\$9,073.17 \$0,100.56		
128 129	\$10,916.82 \$10,728.16	\$36.39 \$35.76	\$188.66 \$189.29	\$10,728.16 \$10,538.87	\$9,109.56 \$9,145.32		
130	\$10,538.87	\$35.13	\$189.92	\$10,348.95	\$9,140.32 \$9,180.45		
131	\$10,348.95	\$34.50	\$190.55	\$10,158.39	\$9,214.95		
132	\$10,158.39	\$33.86	\$191.19	\$9,967.20	\$9,248.81		
133 134	\$9,967.20 \$9,775.38	\$33.22 \$32.58	\$191.83 \$192.47	\$9,775.38 \$9,582.91	\$9,282.04 \$9,314.62		
135	\$9,582.91	\$31.94	\$193.11	\$9,389.81	\$9,346.56		
136	\$9,389.81	\$31.30	\$193.75	\$9,196.06	\$9,377.86		
137	\$9,196.06	\$30.65	\$194.40	\$9,001.66	\$9,408.52		
138 139	\$9,001.66 \$8,806.61	\$30.01 \$29.36	\$195.04 \$195.69	\$8,806.61 \$8,610.92	\$9,438.52 \$9,467.88		
140	\$8,610.92	\$28.70	\$196.35	\$8,414.57	\$9,407.88 \$9,496.58		
141	\$8,414.57	\$28.05	\$197.00	\$8,217.57	\$9,524.63		
142	\$8,217.57	\$27.39	\$197.66	\$8,019.91	\$9,552.02		
143	\$8,019.91	\$26.73	\$198.32	\$7,821.60	\$9,578.75		

						D (Discount Factor) =	135.1921487
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$225.05
\$30,425.00	4.00%	15	\$225.05				
			+				
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest		
144	\$7,821.60	\$26.07	\$198.98	\$7,622.62	\$9,604.83		
145	\$7,622.62	\$25.41	\$199.64	\$7,422.98	\$9,630.23		
146	\$7,422.98	\$24.74	\$200.31	\$7,222.67	\$9,654.98		
147	\$7,222.67	\$24.08	\$200.97	\$7,021.70	\$9,679.05		
148	\$7,021.70	\$23.41	\$201.64	\$6,820.05	\$9,702.46		
149	\$6,820.05	\$22.73	\$202.32	\$6,617.73	\$9,725.19		
150	\$6,617.73	\$22.06	\$202.99	\$6,414.74	\$9,747.25		
151	\$6,414.74	\$21.38	\$203.67	\$6,211.08	\$9,768.63		
152	\$6,211.08	\$20.70	\$204.35	\$6,006.73	\$9,789.34		
153	\$6,006.73	\$20.02	\$205.03	\$5,801.70	\$9,809.36		
154	\$5,801.70	\$19.34	\$205.71	\$5,595.99	\$9,828.70		
155	\$5,595.99	\$18.65	\$206.40	\$5,389.59	\$9,847.35		
156	\$5,389.59	\$17.97	\$207.08	\$5,182.51	\$9,865.32		
157	\$5,182.51	\$17.28	\$207.78	\$4,974.73	\$9,882.59		
158	\$4,974.73	\$16.58	\$208.47	\$4,766.27	\$9,899.17		
159	\$4,766.27	\$15.89	\$209.16	\$4,557.10	\$9,915.06		
160	\$4,557.10	\$15.19	\$209.86	\$4,347.24	\$9,930.25		
161	\$4,347.24	\$14.49	\$210.56	\$4,136.68	\$9,944.74		
162	\$4,136.68	\$13.79	\$211.26	\$3,925.42	\$9,958.53		
163	\$3,925.42	\$13.08	\$211.97	\$3,713.46	\$9,971.62		
164	\$3,713.46	\$12.38	\$212.67	\$3,500.79	\$9,984.00		
165	\$3,500.79	\$11.67	\$213.38	\$3,287.41	\$9,995.66		
166	\$3,287.41	\$10.96	\$214.09	\$3,073.31	\$10,006.62		
167	\$3,073.31	\$10.24	\$214.81	\$2,858.51	\$10,016.87		
168	\$2,858.51	\$9.53	\$215.52	\$2,642.99	\$10,026.40		
169	\$2,642.99	\$8.81	\$216.24	\$2,426.75	\$10,035.21		
170	\$2,426.75	\$8.09	\$216.96	\$2,209.79	\$10,043.29		
171	\$2,209.79	\$7.37	\$217.68	\$1,992.10	\$10,050.66		
172	\$1,992.10	\$6.64	\$218.41	\$1,773.69	\$10,057.30		
173	\$1,773.69	\$5.91	\$219.14	\$1,554.55	\$10,063.21		
174	\$1,554.55	\$5.18	\$219.87	\$1,334.69	\$10,068.39		
175	\$1,334.69	\$4.45	\$220.60	\$1,114.08	\$10,072.84		
176	\$1,114.08	\$3.71	\$221.34	\$892.75	\$10,076.56		
177	\$892.75	\$2.98	\$222.07	\$670.67	\$10,079.53		
178	\$670.67	\$2.24	\$222.81	\$447.86	\$10,081.77		
179	\$447.86	\$1.49	\$223.56	\$224.30	\$10,083.26		
180	\$224.30	\$0.75	\$224.30	\$0.00	\$10,084.01		

						D (Discount Factor) =	165.0218582
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$184.37
\$30,425.00	4.00%	20	\$184.37				
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest		
1	\$30,425.00	\$101.42	\$82.95	\$30,342.05	\$101.42		
2	\$30,342.05	\$101.14	\$83.23	\$30,258.82	\$202.56		
3	\$30,258.82	\$100.86	\$83.51	\$30,175.31	\$303.42		
4	\$30,175.31	\$100.58	\$83.79	\$30,091.53	\$404.00		
5	\$30,091.53	\$100.31	\$84.06	\$30,007.46	\$504.31		
6	\$30,007.46	\$100.02	\$84.34	\$29,923.12	\$604.33		
7	\$29,923.12	\$99.74	\$84.63	\$29,838.49	\$704.08		
8	\$29,838.49	\$99.46	\$84.91	\$29,753.58	\$803.54		
9	\$29,753.58	\$99.18	\$85.19	\$29,668.39	\$902.72		
10	\$29,668.39	\$98.89	\$85.47	\$29,582.92	\$1,001.61		
11	\$29,582.92	\$98.61	\$85.76	\$29,497.16	\$1,100.22		
12	\$29,497.16	\$98.32	\$86.05	\$29,411.11	\$1,198.55		
13	\$29,411.11	\$98.04	\$86.33	\$29,324.78	\$1,296.58		
14	\$29,324.78	\$97.75	\$86.62	\$29,238.16	\$1,394.33		
15	\$29,238.16	\$97.46	\$86.91	\$29,151.25	\$1,491.79		
16	\$29,151.25	\$97.17	\$87.20	\$29,064.05	\$1,588.96		
17	\$29,064.05	\$96.88	\$87.49	\$28,976.56	\$1,685.84		
18	\$28,976.56	\$96.59	\$87.78	\$28,888.78	\$1,782.43		
19	\$28,888.78	\$96.30	\$88.07	\$28,800.71	\$1,878.73		
20	\$28,800.71	\$96.00	\$88.37	\$28,712.34	\$1,974.73		
21	\$28,712.34 \$28,622,68	\$95.71 \$95.44	\$88.66	\$28,623.68	\$2,070.44		
22 23	\$28,623.68 \$28,534.72	\$95.41 \$95.12	\$88.96 \$89.25	\$28,534.72 \$28,445.47	\$2,165.85 \$2,260.97		
24	\$28,445.47	\$94.82	\$89.55	\$28,355.92	\$2,355.78		
25	\$28,355.92	\$94.52	\$89.85	\$28,266.07	\$2,450.30		
26	\$28,266.07	\$94.22	\$90.15	\$28,175.92	\$2,544.52		
27 28	\$28,175.92 \$28,085.47	\$93.92 \$93.62	\$90.45 \$90.75	\$28,085.47 \$27,994.72	\$2,638.44 \$2,732.06		
29	\$27,994.72	\$93.32	\$91.05	\$27,903.66	\$2,825.38		
30	\$27,903.66	\$93.01	\$91.36	\$27,812.31	\$2,918.39		
31	\$27,812.31	\$92.71	\$91.66	\$27,720.64	\$3,011.10		
32 33	\$27,720.64 \$27,628.68	\$92.40 \$92.10	\$91.97 \$92.27	\$27,628.68 \$27,536.40	\$3,103.50 \$3,195.60		
34	\$27,536.40	\$91.79	\$92.58	\$27,443.82	\$3,287.38		
35	\$27,443.82	\$91.48	\$92.89	\$27,350.93	\$3,378.86		
36	\$27,350.93	\$91.17	\$93.20	\$27,257.73	\$3,470.03		
37 38	\$27,257.73 \$27,164.22	\$90.86 \$90.55	\$93.51 \$93.82	\$27,164.22 \$27,070.40	\$3,560.89 \$3,651.44		
39	\$27,070.40	\$90.23	\$94.13	\$26,976.26	\$3,741.67		
40	\$26,976.26	\$89.92	\$94.45	\$26,881.81	\$3,831.60		
41	\$26,881.81	\$89.61	\$94.76	\$26,787.05	\$3,921.20		
42 43	\$26,787.05 \$26,691.97	\$89.29 \$88.97	\$95.08 \$95.40	\$26,691.97 \$26,596.58	\$4,010.49 \$4,099.46		
44	\$26,596.58	\$88.66	\$95.71	\$26,500.86	\$4,188.12		
45	\$26,500.86	\$88.34	\$96.03	\$26,404.83	\$4,276.46		
46	\$26,404.83	\$88.02	\$96.35	\$26,308.47	\$4,364.47		
47 48	\$26,308.47 \$26,211.80	\$87.69 \$87.37	\$96.67 \$97.00	\$26,211.80 \$26,114.80	\$4,452.17 \$4,539.54		
48	\$26,114.80	\$87.05	\$97.32	\$26,017.48	\$4,626.59		
50	\$26,017.48	\$86.72	\$97.64	\$25,919.84	\$4,713.31		
51	\$25,919.84	\$86.40	\$97.97	\$25,821.87	\$4,799.71		
52 53	\$25,821.87 \$25,723.57	\$86.07 \$85.75	\$98.30 \$98.62	\$25,723.57 \$25,624.95	\$4,885.79 \$4,971.53		
54	\$25,624.95	\$85.42	\$98.95	\$25,525.99	\$5,056.95		
55	\$25,525.99	\$85.09	\$99.28	\$25,426.71	\$5,142.03		
56	\$25,426.71	\$84.76	\$99.61	\$25,327.10	\$5,226.79		
57 58	\$25,327.10 \$25,227.15	\$84.42 \$84.09	\$99.95 \$100.28	\$25,227.15 \$25,126.87	\$5,311.21 \$5,395.30		
58 59	\$25,227.15 \$25,126.87	\$84.09 \$83.76	\$100.28	\$25,026.26	\$5,395.30 \$5,479.06		
60	\$25,026.26	\$83.42	\$100.95	\$24,925.31	\$5,562.48		
61	\$24,925.31	\$83.08	\$101.29	\$24,824.03	\$5,645.57		
62 63	\$24,824.03 \$24,722.40	\$82.75 \$82.41	\$101.62 \$101.06	\$24,722.40 \$24,620,44	\$5,728.31 \$5,810,72		
63 64	\$24,722.40 \$24,620.44	\$82.41 \$82.07	\$101.96 \$102.30	\$24,620.44 \$24,518.14	\$5,810.72 \$5,892.79		
65	\$24,518.14	\$81.73	\$102.64	\$24,415.50	\$5,974.52		
66	\$24,415.50	\$81.38	\$102.98	\$24,312.51	\$6,055.90		
67	\$24,312.51 \$24,200,10	\$81.04 \$80.70	\$103.33 \$103.67	\$24,209.19 \$24,105,51	\$6,136.94 \$6,217.64		
68 69	\$24,209.19 \$24,105.51	\$80.70 \$80.35	\$103.67 \$104.02	\$24,105.51 \$24,001.50	\$6,217.64 \$6,297.99		
00	Ψ24,100.01	ψ00.00	ψ104.02	φ27,001.00	ψ0,201.00		

						D (Discount Easter) -	165 0010500
Loop Amount	Interest Date	Torm in Vooro	Monthly Doymont			D (Discount Factor) =	165.0218582
Loan Amount \$30,425.00	Interest Rate 4.00%	Term in Years 20	Monthly Payment \$184.37			P = A/D	\$184.37
\$30,425.00	4.00%	20	ə104.37				
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest		
70	\$24,001.50	\$80.00	\$104.36	\$23,897.13	\$6,378.00		
71	\$23,897.13	\$79.66	\$104.71	\$23,792.42	\$6,457.65		
72	\$23,792.42	\$79.31	\$105.06	\$23,687.36	\$6,536.96		
73 74	\$23,687.36 \$23,581.95	\$78.96 \$78.61	\$105.41 \$105.76	\$23,581.95 \$23,476.18	\$6,615.92 \$6,694.53		
74	\$23,476.18	\$78.25	\$106.12	\$23,370.07	\$6,772.78		
76	\$23,370.07	\$77.90	\$106.47	\$23,263.60	\$6,850.68		
77	\$23,263.60	\$77.55	\$106.82	\$23,156.77	\$6,928.23		
78	\$23,156.77	\$77.19	\$107.18	\$23,049.59	\$7,005.42		
79 80	\$23,049.59 \$22,942.06	\$76.83 \$76.47	\$107.54 \$107.90	\$22,942.06 \$22,834.16	\$7,082.25 \$7,158.72		
81	\$22,834.16	\$76.11	\$108.26	\$22,725.90	\$7,234.83		
82	\$22,725.90	\$75.75	\$108.62	\$22,617.29	\$7,310.59		
83	\$22,617.29	\$75.39	\$108.98	\$22,508.31	\$7,385.98		
84	\$22,508.31	\$75.03	\$109.34	\$22,398.97	\$7,461.01		
85	\$22,398.97	\$74.66	\$109.71	\$22,289.26	\$7,535.67		
86 87	\$22,289.26 \$22,179.19	\$74.30 \$73.93	\$110.07 \$110.44	\$22,179.19 \$22,068.75	\$7,609.97 \$7,683.90		
88	\$22,068.75	\$73.56	\$110.81	\$21,957.94	\$7,757.46		
89	\$21,957.94	\$73.19	\$111.18	\$21,846.77	\$7,830.65		
90	\$21,846.77	\$72.82	\$111.55	\$21,735.22	\$7,903.48		
91	\$21,735.22	\$72.45	\$111.92	\$21,623.30	\$7,975.93		
92	\$21,623.30	\$72.08	\$112.29	\$21,511.01	\$8,048.00		
93 94	\$21,511.01 \$21,398.34	\$71.70 \$71.33	\$112.67 \$113.04	\$21,398.34 \$21,285.30	\$8,119.71 \$8,191.04		
94 95	\$21,285.30	\$70.95	\$113.42	\$21,171.88	\$8,261.99		
96	\$21,171.88	\$70.57	\$113.80	\$21,058.09	\$8,332.56		
97	\$21,058.09	\$70.19	\$114.18	\$20,943.91	\$8,402.75		
98	\$20,943.91	\$69.81	\$114.56	\$20,829.35	\$8,472.57		
99	\$20,829.35	\$69.43	\$114.94	\$20,714.42	\$8,542.00		
100 101	\$20,714.42 \$20,599.09	\$69.05 \$68.66	\$115.32 \$115.71	\$20,599.09 \$20,483.39	\$8,611.05 \$8,679.71		
102	\$20,483.39	\$68.28	\$116.09	\$20,367.30	\$8,747.99		
103	\$20,367.30	\$67.89	\$116.48	\$20,250.82	\$8,815.88		
104	\$20,250.82	\$67.50	\$116.87	\$20,133.95	\$8,883.38		
105	\$20,133.95	\$67.11	\$117.26	\$20,016.69	\$8,950.49		
106	\$20,016.69	\$66.72	\$117.65	\$19,899.05	\$9,017.22		
107 108	\$19,899.05 \$19,781.01	\$66.33 \$65.94	\$118.04 \$118.43	\$19,781.01 \$19,662.58	\$9,083.55 \$9,149.48		
109	\$19,662.58	\$65.54	\$118.83	\$19,543.75	\$9,215.02		
110	\$19,543.75	\$65.15	\$119.22	\$19,424.52	\$9,280.17		
111	\$19,424.52	\$64.75	\$119.62	\$19,304.90	\$9,344.92		
112	\$19,304.90	\$64.35	\$120.02	\$19,184.88	\$9,409.27		
113 114	\$19,184.88 \$19,064.46	\$63.95 \$63.55	\$120.42 \$120.82	\$19,064.46 \$18,943.64	\$9,473.22 \$9,536.77		
115	\$18,943.64	\$63.15	\$120.82	\$18,822.42	\$9,599.91		
116	\$18,822.42	\$62.74	\$121.63	\$18,700.79	\$9,662.65		
117	\$18,700.79	\$62.34	\$122.03	\$18,578.76	\$9,724.99		
118	\$18,578.76	\$61.93	\$122.44	\$18,456.32	\$9,786.92		
119	\$18,456.32	\$61.52	\$122.85	\$18,333.47	\$9,848.44 \$0,000.55		
120 121	\$18,333.47 \$18,210.21	\$61.11 \$60.70	\$123.26 \$123.67	\$18,210.21 \$18,086.54	\$9,909.55 \$9,970.25		
121	\$18,086.54	\$60.29	\$123.07 \$124.08	\$17,962.46	\$9,970.25 \$10,030.54		
123	\$17,962.46	\$59.87	\$124.49	\$17,837.96	\$10,090.42		
124	\$17,837.96	\$59.46	\$124.91	\$17,713.06	\$10,149.87		
125	\$17,713.06	\$59.04	\$125.33	\$17,587.73	\$10,208.92		
126	\$17,587.73 \$17,461,00	\$58.63 \$58.21	\$125.74	\$17,461.99 \$17,225,82	\$10,267.54 \$10,225.75		
127 128	\$17,461.99 \$17,335.82	\$58.21 \$57.79	\$126.16 \$126.58	\$17,335.82 \$17,209.24	\$10,325.75 \$10,383.54		
120	\$17,209.24	\$57.36	\$127.01	\$17,082.23	\$10,383.34		
130	\$17,082.23	\$56.94	\$127.43	\$16,954.80	\$10,497.84		
131	\$16,954.80	\$56.52	\$127.85	\$16,826.95	\$10,554.36		
132	\$16,826.95	\$56.09	\$128.28	\$16,698.67	\$10,610.45		
133	\$16,698.67 \$16,560.06	\$55.66 \$55.23	\$128.71 \$120.14	\$16,569.96 \$16,440,83	\$10,666.11 \$10,721.34		
134 135	\$16,569.96 \$16,440.83	\$55.23 \$54.80	\$129.14 \$129.57	\$16,440.83 \$16,311.26	\$10,721.34 \$10,776.15		
136	\$16,311.26	\$54.37	\$130.00	\$16,181.26	\$10,830.52		
137	\$16,181.26	\$53.94	\$130.43	\$16,050.83	\$10,884.45		
138	\$16,050.83	\$53.50	\$130.87	\$15,919.96	\$10,937.96		
139	\$15,919.96	\$53.07	\$131.30	\$15,788.66	\$10,991.02		
140 141	\$15,788.66 \$15,656.92	\$52.63 \$52.19	\$131.74 \$132.18	\$15,656.92 \$15,524.74	\$11,043.65 \$11,095.84		
141	\$15,524.74	\$52.19 \$51.75	\$132.62	\$15,392.12	\$11,147.59		
143	\$15,392.12	\$51.31	\$133.06	\$15,259.06	\$11,198.90		

						D (Discount Factor) =	165.0218582
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$184.37
\$30,425.00	4.00%	20	\$184.37			1 700	<i><i><i></i></i></i>
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest		
144 145	\$15,259.06 \$15,125.55	\$50.86 \$50.42	\$133.51 \$133.95	\$15,125.55 \$14,991.60	\$11,249.76 \$11,300.18		
146	\$14,991.60	\$49.97	\$134.40	\$14,857.20	\$11,350.15		
147	\$14,857.20	\$49.52	\$134.85	\$14,722.36	\$11,399.68		
148	\$14,722.36	\$49.07	\$135.29	\$14,587.06	\$11,448.75		
149 150	\$14,587.06 \$14,451.32	\$48.62 \$48.17	\$135.75 \$136.20	\$14,451.32 \$14,315,12	\$11,497.37 \$11,545.55		
151	\$14,315.12	\$47.72	\$136.65	\$14,315.12 \$14,178.47	\$11,593.26		
152	\$14,178.47	\$47.26	\$137.11	\$14,041.36	\$11,640.52		
153	\$14,041.36	\$46.80	\$137.56	\$13,903.79	\$11,687.33		
154	\$13,903.79	\$46.35	\$138.02	\$13,765.77	\$11,733.67		
155 156	\$13,765.77 \$13,627.29	\$45.89 \$45.42	\$138.48 \$138.95	\$13,627.29 \$13,488.34	\$11,779.56 \$11,824.98		
157	\$13,488.34	\$44.96	\$139.41	\$13,348.93	\$11,869.95		
158	\$13,348.93	\$44.50	\$139.87	\$13,209.06	\$11,914.44		
159	\$13,209.06	\$44.03	\$140.34	\$13,068.72	\$11,958.47		
160	\$13,068.72	\$43.56	\$140.81	\$12,927.91	\$12,002.04		
161 162	\$12,927.91 \$12,786,64	\$43.09 \$42.62	\$141.28 \$141.75	\$12,786.64 \$12,644.89	\$12,045.13 \$12,087,75		
163	\$12,786.64 \$12,644.89	\$42.02 \$42.15	\$142.22	\$12,502.67	\$12,087.75 \$12,129.90		
164	\$12,502.67	\$41.68	\$142.69	\$12,359.97	\$12,171.58		
165	\$12,359.97	\$41.20	\$143.17	\$12,216.81	\$12,212.78		
166	\$12,216.81	\$40.72	\$143.65	\$12,073.16	\$12,253.50		
167 168	\$12,073.16 \$11,020,02	\$40.24 \$20.76	\$144.13	\$11,929.03 \$11,784,42	\$12,293.74 \$12,222.51		
169	\$11,929.03 \$11,784.43	\$39.76 \$39.28	\$144.61 \$145.09	\$11,784.43 \$11,639.34	\$12,333.51 \$12,372.79		
170	\$11,639.34	\$38.80	\$145.57	\$11,493.77	\$12,411.58		
171	\$11,493.77	\$38.31	\$146.06	\$11,347.71	\$12,449.90		
172	\$11,347.71	\$37.83	\$146.54	\$11,201.17	\$12,487.72		
173 174	\$11,201.17 \$11,054.13	\$37.34 \$36.85	\$147.03 \$147.52	\$11,054.13 \$10,906.61	\$12,525.06 \$12,561.91		
174	\$10,906.61	\$36.36	\$147.52	\$10,758.60	\$12,598.26		
176	\$10,758.60	\$35.86	\$148.51	\$10,610.09	\$12,634.12		
177	\$10,610.09	\$35.37	\$149.00	\$10,461.09	\$12,669.49		
178	\$10,461.09	\$34.87	\$149.50	\$10,311.59	\$12,704.36		
179 180	\$10,311.59 \$10,161.59	\$34.37 \$33.87	\$150.00 \$150.50	\$10,161.59 \$10,011.09	\$12,738.73 \$12,772.61		
180	\$10,011.09	\$33.37	\$151.00	\$9,860.09	\$12,805.98		
182	\$9,860.09	\$32.87	\$151.50	\$9,708.59	\$12,838.84		
183	\$9,708.59	\$32.36	\$152.01	\$9,556.58	\$12,871.21		
184	\$9,556.58	\$31.86	\$152.51	\$9,404.07	\$12,903.06		
185 186	\$9,404.07 \$9,251.05	\$31.35 \$30.84	\$153.02 \$153.53	\$9,251.05 \$9,097.51	\$12,934.41 \$12,965.24		
187	\$9,097.51	\$30.33	\$154.04	\$8,943.47	\$12,995.57		
188	\$8,943.47	\$29.81	\$154.56	\$8,788.91	\$13,025.38		
189	\$8,788.91	\$29.30	\$155.07	\$8,633.84	\$13,054.68		
190	\$8,633.84	\$28.78	\$155.59	\$8,478.25	\$13,083.46		
191 192	\$8,478.25 \$8,322.14	\$28.26 \$27.74	\$156.11 \$156.63	\$8,322.14 \$8,165.51	\$13,111.72 \$13,139.46		
192	\$8,165.51	\$27.22	\$157.15	\$8,008.36	\$13,166.68		
194	\$8,008.36	\$26.69	\$157.67	\$7,850.68	\$13,193.37		
195	\$7,850.68	\$26.17	\$158.20	\$7,692.48	\$13,219.54		
196 107	\$7,692.48 \$7,533.76	\$25.64 \$25.11	\$158.73 \$159.26	\$7,533.76 \$7,374.50	\$13,245.18 \$13,270,20		
197 198	\$7,533.76 \$7,374.50	\$25.11 \$24.58	\$159.26 \$159.79	\$7,374.50 \$7,214.71	\$13,270.29 \$13,294.88		
199	\$7,214.71	\$24.05	\$160.32	\$7,054.39	\$13,318.92		
200	\$7,054.39	\$23.51	\$160.85	\$6,893.54	\$13,342.44		
201	\$6,893.54	\$22.98	\$161.39	\$6,732.14	\$13,365.42		
202	\$6,732.14 \$6,570.22	\$22.44 \$21.00	\$161.93 \$162.47	\$6,570.22 \$6,407.75	\$13,387.86 \$13,400.76		
203 204	\$6,570.22 \$6,407.75	\$21.90 \$21.36	\$162.47 \$163.01	\$6,407.75 \$6,244.74	\$13,409.76 \$13,431.12		
204	\$6,244.74	\$20.82	\$163.55	\$6,081.18	\$13,451.93		
206	\$6,081.18	\$20.27	\$164.10	\$5,917.08	\$13,472.20		
207	\$5,917.08	\$19.72	\$164.65	\$5,752.44	\$13,491.93		
208	\$5,752.44 \$5,587.24	\$19.17 \$18.62	\$165.19 \$165.75	\$5,587.24 \$5,421.50	\$13,511.10 \$13,520,73		
209 210	\$5,587.24 \$5,421.50	\$18.62 \$18.07	\$165.75 \$166.30	\$5,421.50 \$5,255.20	\$13,529.73 \$13,547.80		
210	\$5,255.20	\$17.52	\$166.85	\$5,088.35	\$13,565.32		
212	\$5,088.35	\$16.96	\$167.41	\$4,920.94	\$13,582.28		
213	\$4,920.94	\$16.40	\$167.97	\$4,752.97	\$13,598.68		
214	\$4,752.97 \$4,584,45	\$15.84 \$15.28	\$168.53 \$160.00	\$4,584.45 \$4,415.36	\$13,614.52 \$13,620,80		
215 216	\$4,584.45 \$4,415.36	\$15.28 \$14.72	\$169.09 \$169.65	\$4,415.36 \$4,245.71	\$13,629.80 \$13,644.52		
217	\$4,245.71	\$14.15	\$170.22	\$4,075.49	\$13,658.68		

						D (Discount Factor) =	165.0218582
Loan Amount	Interest Rate	Term in Years	Monthly Payment			P = A/D	\$184.37
\$30,425.00	4.00%	20	\$184.37				
Month	StartingBalance	Interest	Principal	EndingBalance	TotalInterest		
218	\$4,075.49	\$13.58	\$170.78	\$3,904.71	\$13,672.26		
219	\$3,904.71	\$13.02	\$171.35	\$3,733.35	\$13,685.28		
220	\$3,733.35	\$12.44	\$171.93	\$3,561.43	\$13,697.72		
221	\$3,561.43	\$11.87	\$172.50	\$3,388.93	\$13,709.59		
222	\$3,388.93	\$11.30	\$173.07	\$3,215.86	\$13,720.89		
223	\$3,215.86	\$10.72	\$173.65	\$3,042.21	\$13,731.61		
224	\$3,042.21	\$10.14	\$174.23	\$2,867.98	\$13,741.75		
225	\$2,867.98	\$9.56	\$174.81	\$2,693.17	\$13,751.31		
226	\$2,693.17	\$8.98	\$175.39	\$2,517.78	\$13,760.29		
227	\$2,517.78	\$8.39	\$175.98	\$2,341.80	\$13,768.68		
228	\$2,341.80	\$7.81	\$176.56	\$2,165.23	\$13,776.48		
229	\$2,165.23	\$7.22	\$177.15	\$1,988.08	\$13,783.70		
230	\$1,988.08	\$6.63	\$177.74	\$1,810.34	\$13,790.33		
231	\$1,810.34	\$6.03	\$178.34	\$1,632.00	\$13,796.36		
232	\$1,632.00	\$5.44	\$178.93	\$1,453.08	\$13,801.80		
233	\$1,453.08	\$4.84	\$179.53	\$1,273.55	\$13,806.65		
234	\$1,273.55	\$4.25	\$180.12	\$1,093.43	\$13,810.89		
235	\$1,093.43	\$3.64	\$180.72	\$912.70	\$13,814.54		
236	\$912.70	\$3.04	\$181.33	\$731.37	\$13,817.58		
237	\$731.37	\$2.44	\$181.93	\$549.44	\$13,820.02		
238	\$549.44	\$1.83	\$182.54	\$366.90	\$13,821.85		
239	\$366.90	\$1.22	\$183.15	\$183.76	\$13,823.07		
240	\$183.76	\$0.61	\$183.76	\$0.00	\$13,823.68		



Appendix D

Public Information Centre Information





This information will be provided upon completion of PIC(s)

CIMA CANADA INC.

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