

Development Servicing Plans For Water Supply and Sewerage



OBERON COUNCIL

July 2017



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Development Servicing Plans for Water Supply and Sewerage

Adopted by Council

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EXECUTIVE SUMMARY

These Development Servicing Plans (DSPs) cover water supply and sewerage developer charges for the areas serviced by Oberon Council (OC) as shown in the maps in Appendices A and B.

This document comprises one DSP for water supply and one DSP for sewerage.

OC has one DSP area for water supply and one for sewerage. The developer charges per equivalent tenement (ET) are listed below.

Service	DSP Area	Developer Charge 2017/18 per ET
Water Supply	Oberon Township	\$2,604
Sewerage	Oberon Township	\$10,688

No cross-subsidies from existing customers are proposed.

OC will determine the ET loadings of new development and redevelopment and levy developer charges by multiplying the ET loadings by the charge per ET applicable to the service area.

The service areas are shown in the maps in Appendices A and B. Generally, the areas cover the existing areas serviced by the existing water supply and sewerage infrastructure, and the East Oberon area where reticulated sewerage is scheduled to be provided by 2019. The service areas do not include the West Oberon Development Area (WODA).

The DSPs have been prepared in accordance with the 2016 Developer Charges Guidelines for Water Supply, Sewerage and Stormwater issued by the Minister for Lands and Water, pursuant to section 306 (3) of the *Water Management Act, 2000*.

The assets that will serve the areas covered by these DSPs are described in section 5.

The levels of service to be provided by Council are included in section 6.

Developer charges relating to this DSP document will be reviewed after a period of 4 to 8 years. In the period between any review, developer charges will be adjusted annually on the basis of the movements in the CPI for Sydney, excluding the impact of GST.

The developer shall be responsible for the full cost of the design and construction of water supply and sewerage reticulation works within subdivisions.

Background information containing all the critical data including calculation models behind each DSP is available on request

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1 INTRODUCTION

Oberon Council (OC) provides water supply and sewerage services within the Oberon Local Government Area in NSW.

Developer charges cover part of the cost of providing water supply and sewerage infrastructures to new development and redevelopment. Developer charges have two related functions:

- They provide a source of funding for infrastructure required for urban development
- They provide signals regarding the cost of urban development thus encouraging less costly forms and areas of development

Section 64 of the *Local Government Act, 1993* enables a local government council to levy developer charges for water supply, sewerage and stormwater. This derives from a cross-reference in that Act to section 306 of the *Water Management Act, 2000*.

A Development Servicing Plan (DSP) details the water supply and/or sewerage developer charges to be levied on development areas utilising a water utility's water supply and/or sewerage infrastructure.

This DSP document has been prepared in accordance with the 2016 Developer Charges Guidelines for Water Supply, Sewerage and Stormwater issued by the Minister for Lands and Water, pursuant to section 306 (3) of the *Water Management Act, 2000*.

This DSP document supersedes any other requirements related to water supply [and/or sewerage] developer charges for the area covered by this DSP. This DSP document takes precedence over any of Council's codes or policies where there are any inconsistencies relating to water supply [and/or sewerage] developer charges.

This document contains two DSPs, covering water supply and sewerage developer charges in regard to the Service Areas served by Oberon Council. The Service Area (also known as DSP Areas) are shown in Appendices A and B.

These DSPs aim to achieve the following objectives:

- Allow OC to require a monetary contribution for the provision of water supply and sewerage services, proportional to the demands generated by development.
- Facilitate the provision of water supply and sewerage assets to meet the levels of service.
- Detail the contribution rates and OC's payment policies.

These DSPs were prepared using 2015/16 data. The calculated charges where adjusted using an increase 1% pa to arrive at the calculated developer charges in 2017/18.

2 GLOSSARY

Below is a list of some terms used in DSPs.

Abbreviations	Definitions
Asset	An asset (or part of an asset) including land and headwork's assets that provides, or will provide, services to developments within the DSP area for which the Developer Charge is payable.
ADWF	Average dry weather flow. One of the design parameters for flow in sewers.
Capital Charge	Capital cost of assets per ET x Return on Investment (ROI) factor.
Capital Cost	The current replacement cost (MEERA basis) of assets used to service the development.
CPI	Consumer Price Index.
Developer Charge	A charge levied on developers to recover part of the capital cost incurred in providing services to new development and redevelopment.
Development Area	That part of a water utility area covered by a particular DSP. Also referred to as a DSP Area.
DSP	Development Servicing Plan.
EP	Equivalent Person (or equivalent population).
ET	Equivalent Tenement.
Guidelines	2016 Developer Charges Guidelines for Water Supply, Sewerage and Stormwater, available from http://www.water.nsw.gov.au/_data/assets/pdf_file/0011/663698/2016-Developer-Charges-Guidelines.pdf
LEP	Local Environment Plan.
LWU	Local water utility (NSW), a local or county council operating as water utility.
M	Million.
MEERA	Modern Equivalent Engineering Replacement Asset.
N/A	Not Applicable.
NPV	Net Present Value.
OC	Oberon Council.
OMA	Operation, maintenance and administration (costs).
Post Asset	An Asset that was commissioned on or after 1st January of the specified year or that is yet to be commissioned.
Pre-Asset	An Asset that was commissioned by a water utility before 1st January of the specified year.

Abbreviations	Definitions
PS	Pumping Station.
PV	Present Value.
Reduction Amount	The amount by which the capital charge is reduced to arrive at the developer charge. This amount reflects the present value of the capital contribution that will be paid by the occupiers of a development as part of future annual charges.
ROI	Return on investment. Represents the income that is, or could be, generated by investing money.
Service Area	An area serviced by a separate water supply and sewerage system, a separate small town or village, or a new development of over 500 lots (Note: this is standard terminology from the Guidelines).
STP	Sewage Treatment Plant.
TBL	Triple Bottom Line. TBL reports are annual performance report issued by DPI Water.
TBA	To be Advised.
TRB	Typical residential bill, which is the principal indicator of the overall cost of a water supply or sewerage system. It is the bill paid by a residential customer using the utility's average annual residential water supplied per connected property, and is not a pensioner.
WSS	Water Supply Scheme.
WTP	Water Treatment Plant.

3 ADMINISTRATION

3.1 DSP Names and Areas Covered

Table 1: DSP Names and Areas Covered

DSP Name	Area Covered
Oberon Water Supply	Oberon town.
Oberon Sewerage	Oberon town.

3.2 DSP Boundaries

3.2.1 General

These DSPs apply to all land in the OC area that is within the water and/or sewerage service areas and are to be connected to the water supply and/or sewerage systems after the land is developed or redeveloped.

OC, as the local water utility, provides water supply and sewerage services to the township of Oberon. Council is planning to expand its water service to the adjacent areas in the township. A map of the service area covered by the Water Supply DSP is shown in Appendix A and the Sewerage DSP in Appendix B.

3.2.2 East Oberon

Zone B on the map in Appendix B is East Oberon. This area is no seweraged, and is being considered by Council for future provision of sewerage services.

Developer charges do not apply to existing properties where no redevelopment occurs.

Council may apply a connection charge to existing properties. Connection charges are not covered by this DSP document.

3.2.3 Development Outside the DSP Areas

These DSPs do not cover the area known as West Oberon Development Area (WODA). If this area, or other areas within the Oberon LGA, require water supply and/or sewerage services within the currency of these DSPs, Council may:

- Prepare a new DSP for the new development; or
- Extend the boundaries of these DSPs to cover the additional areas; or
- Enter a special agreement with the developer.

Payment for specific assets that may be required to service the new development will be in accordance with the out-of-sequence development provisions in the Guidelines.

3.3 Application of Developer Charges

Developer charges apply to all building and development activities where OC determines that such activities increase the demand for water supply and/or sewerage services, whether or not such activities require development consent.

When assessing the developer charges applicable to a specific development, OC will assess the demand that the proposed development will place on the water supply and/or sewerage systems in terms of ETs and will levy developer charges proportional to the number of ETs.

One ET represents a detached residential dwelling. The minimum demand for each development is 1 ET. The developer charges will be levied on all land within the DSP areas for new development and redevelopment (i.e. change of land use).

3.4 Indexation of Developer Charge

The developer charges will be adjusted on 1 July each year, starting on 1 July 2018, based on movements in the Consumer Price Index (CPI) for Sydney as published by the Australian Bureau of Statistics.

3.5 Payment of Developer Charges

Developer charges will be determined and levied in accordance with the provisions of this DSP document at the time of considering an application for a compliance certificate under section 305 of the *Water Management Act 2000* or a construction certificate under section 109 of the *Environmental Planning and Assessment Act 1979* or at the time of issuing a notice or other form of written advice, eg. under the SEPP (Exempt and Complying Development Codes) 2008.

The time limit for payment of developer charges will be included in the notice of determination or will be advised to the developer by a separate notice. The amount of any developer charges not paid within the specified time limit will lapse. Any subsequent determination of developer charges will be made in accordance with Council's then current DSP.

3.6 Developer Charges for Crown Developments

Crown developments for essential community services (eg. education, health, community services, and law and order) are generally exempt from general developer charges. LWUs may charge these developments only for that portion of the direct connection cost (eg. for a lead-in main) relating to the Crown development.

Under sections 306 (4) and (5), of the *Water Management Act 2000*, the Minister for Planning may make a determination in regard to developer charges levied on Crown developments.

3.7 Dispute Resolution

Disputes will be resolved in accordance with the provisions of Section 2.9 of the Guidelines. OC is not a member of the Electricity and Water Ombudsman (EWON).

3.8 Review of DSPs

These DSPs will be reviewed after 4 to 8 years. If appropriate, new DSPs will be prepared at that time that will replace these DSPs.

A shorter review period is permitted if a major change in circumstances occurs.

4 DEMOGRAPHIC AND LAND USE PLANNING INFORMATION

4.1 Current ETs and ETs Projection

The basic unit of measure to quantify the demand or loading on a water supply or sewerage system is an equivalent tenement (ET). One ET represents the equivalent demand or loading from a detached residential dwelling.

4.1.1 Water Supply

The existing number of ETs were calculated from the 2014/15 data, as shown in Table 2.

Table 2: Water Supply Current ETs

No	Item	Unit	Value
1	Total Urban Water Supplied	ML/a	720
2	Average Residential Water Supplied per Property	kL/a	148
3	Number of ETs (1 ÷ 2)		4,865

Source: 2014/15 TBL Report

Future ETs are estimated based on the ETs take-up projected in Oberon Township servicing strategy. Water supply ETs projections are shown in Table 3 and Figure 1.

Table 3: Water Supply ETs Projection

Service Area	No. of ETs Serviced		
	2014/15	2024/25	2044/45
Oberon	4,865	5,027	5,388

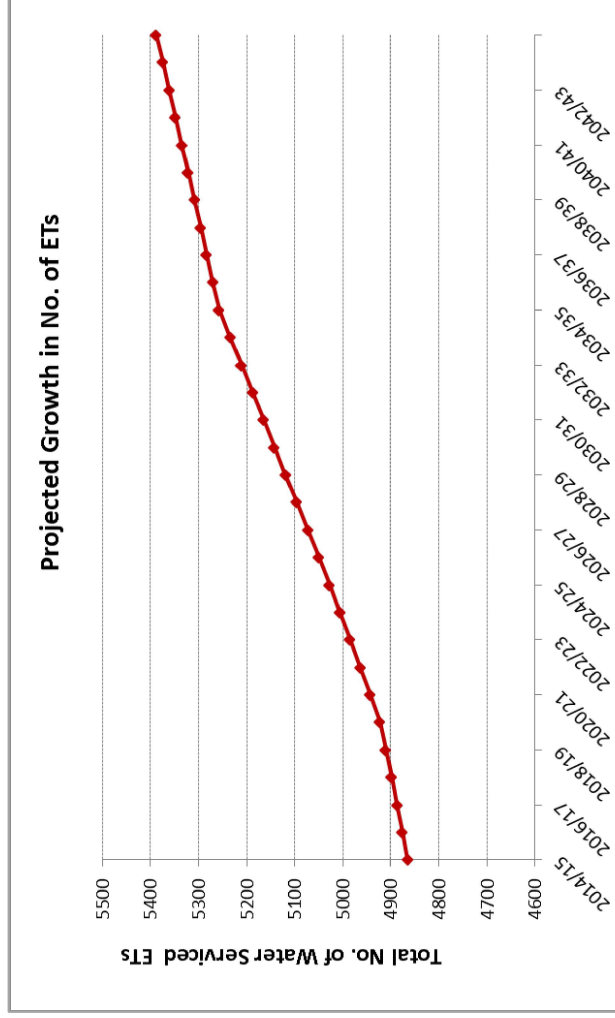


Figure 1: Water Supply ETs Projection

4.1.2 Sewerage

The existing number of ETs were calculated from the 2014/15 data, as shown in Table 2.

Table 4: Sewerage Current ETs

No	Item	Unit	Value
1	Volume of Sewage Collected	ML/a	355
2	Volume of sewage Collected per Property	kL/a	284
3	Number of ETs (1 ÷ 2)		1,250

Source: 2014/15 TBL Report

Future ETs are estimated based on the ETs take-up projected in Oberon Township servicing strategy. Sewerage current ETs and future ETs projection are summarised in Table 5 and graphically shown in Figure 2.

Table 5: Sewerage ETs Projection

Service Area	No. of ETs Serviced				
	2014/15	2017/18	2024/25	2034/35	2044/45
Existing Area	1,250	1,700	1,822	2,042	2,163
East Oberon	0	60 ¹	67	77	87
Total	1,250	1,760	1,889	2,119	2,250

¹Backlog

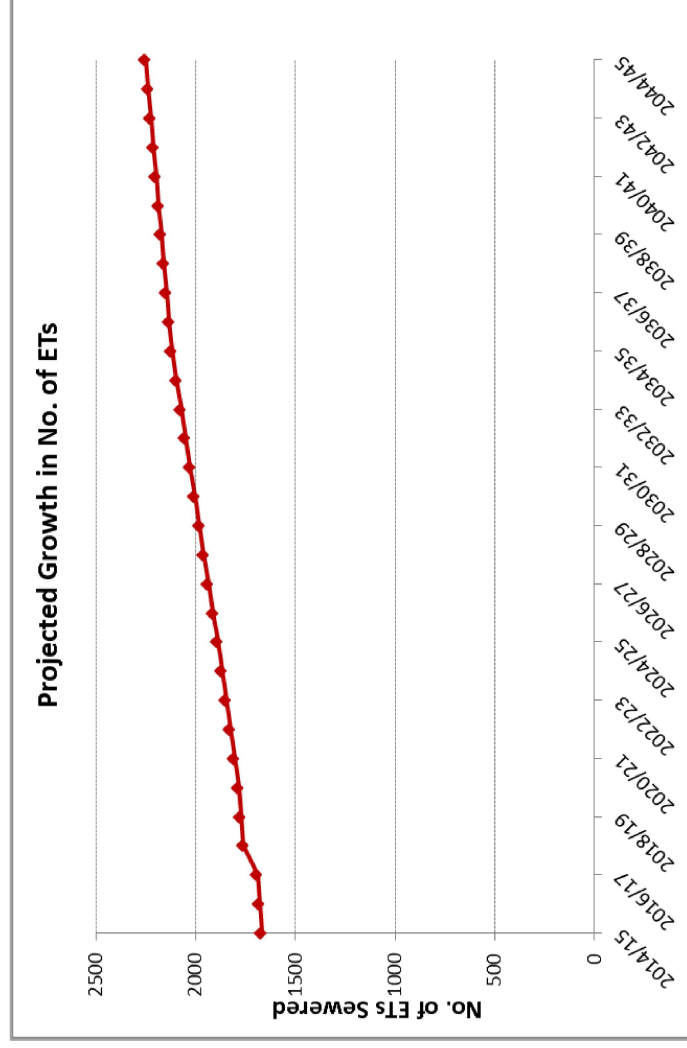


Figure 2: Sewerage Serviced ETs Projection

4.2 Land Use Information

OC DSPs for water supply and sewerage should be read in conjunction with the Local Environment Plan (LEP), Development Control Plan (DCP) and other planning instruments used by OC.

5 INFRASTRUCTURE

5.1 Water Supply

OC owns and operates one water supply scheme which is servicing township of Oberon.

OC water service areas are shown in a map included in Appendix A.

5.1.1 Existing Assets

All existing assets servicing OC water supply service area are included in the capital charge calculation except the following:

- ❑ Assets which will be more than 30 years old at the commencement of the DSP.
- ❑ Reticulation assets which are typically paid for by developers.

Reticulation assets are defined as the local pipes providing water supply to individual properties. In this DSP it is assumed pipe diameter equal or less than 100 mm as reticulation pipe. Reticulation assets are excluded from the calculation of developer charges as the developers are responsible for the full cost of the design and construction of water supply reticulation works within subdivisions.

The existing assets servicing the areas covered by the water supply DSP are listed in Table 1 in Appendix C (OC 2017 DSP Background Document for Water Supply). A summary of the existing assets and their current replacement costs (CRC) is provided in Table 6.

Table 6: Summary of Water Supply Existing Assets CRC (2015/16 \$'000)

Service Area	Current Replacement Cost (CRC) ¹	
	All Existing Assets	Existing Assets included in DSP ²
Oberon	11,569	5,001

¹ Council provided existing assets CRC values (i.e. 2012/13 \$) are CPI-adjusted to reflect in 2015/16 \$

² Excluding reticulation and 30-year old assets (Source: OC Valuation Report, 14 May 2015«Source_3»)

Notes:

1. Assets between 2010 and 2015 are generally not included, as they are not on the asset register. This may have a small impact in the form of lower developer charges.
2. Asset valuations exclude contingencies.

5.1.2 Future Capital Works Program

According to the Guidelines, the calculation of capital charge includes capital cost for new works planned within the next 10 years, excluding reticulation. If Council has detailed plans beyond 10 years, capital cost of those items can be considered for the capital charge calculation. Only 10 years of the capital works program are included in this DSP.

Capital works for renewals planned within the next 10 years may be included if the existing asset is older than 30 years and/or have been removed from the asset register. For this DSP it has been assumed that the capital works for renewals are assigned to assets older than 30 years and therefore are included in the calculation.

The 10-year capital works program required to provide water supply services to the service areas is provided in Table 2 in Appendix C (OC 2017 DSP Background Document for Water Supply). The capital works program has been developed as part of OC's asset management plan. Estimates on the capital works program include contingencies.

A summary of the water supply capital works program is provided in Table 7.

Table 7: Summary of Water Supply 10 Year Capital Works (2015/16 \$'000)

Service Area	Renewals	New Works	Total
Oberon	1,653	1,210	2,863

The 10-year capital works program for water supply is shown in Figure 3. Timing of works and expenditure is to be reviewed and updated when required.

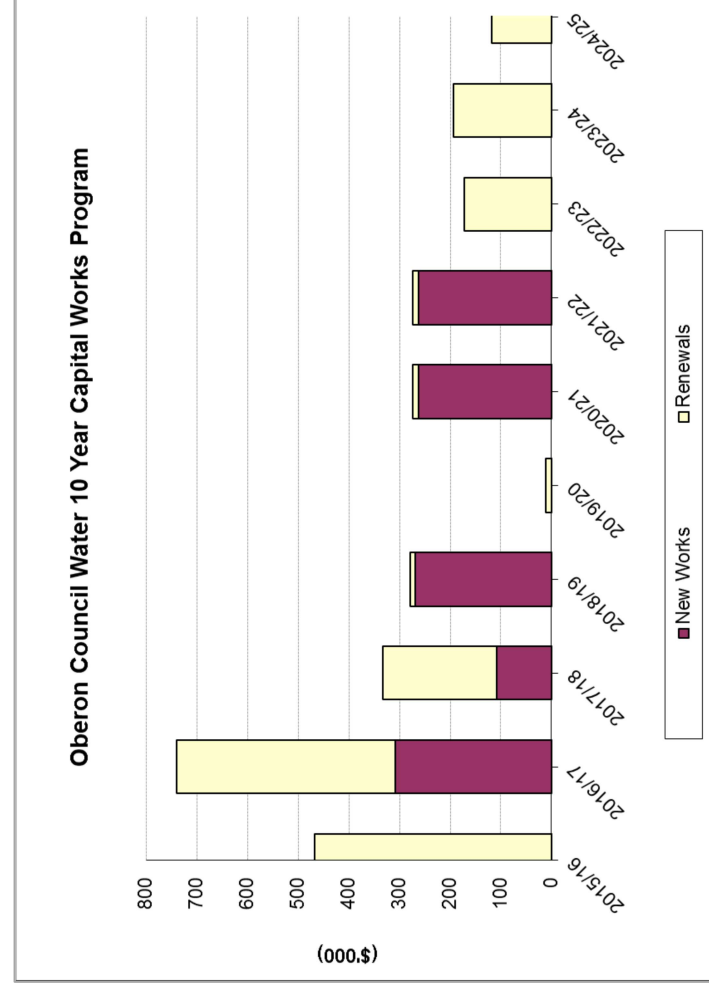


Figure 3: Water Supply 10 Year Capital Works Program

5.2 Sewerage

OC operates and maintains one sewerage scheme which is servicing Oberon township. Council is planning to service backlog area of East Oberon in the next few years.

OC sewerage service areas are shown in a map included in Appendix B.

5.2.1 Existing Assets

All existing sewerage assets serving Oberon township are included in the capital charge calculation except for the following:

- ❑ Assets which will be more than 30 years old at the commencement of the DSP.
 - ❑ Reticulation assets which are typically paid for by developers.
- Reticulation assets are defined as the local pipes connecting individual properties. In this DSP it is assumed pipe diameter equal or less than 150 mm as reticulation pipe. Reticulation assets

are excluded from the calculation of developer charges as the developers are responsible for the full cost of the design and construction of sewerage reticulation works within subdivisions.

The existing assets servicing the area covered by the sewerage DSP are listed in Table 1 in Appendix D (OC 2017 DSP Background Document for Sewerage). A summary of the existing assets and their current replacement costs is provided in Table 8.

The existing sewage treatment plant has been excluded, as it is over 30 years old. The new STP is included as part of the capital works program.

Table 8: Summary of Sewerage Existing Assets CRC 2015/16 \$'000)

Service Area	Current Replacement Cost (CRC) ¹	
	All Existing Assets	Existing Assets included in DSP ²
Oberon	17,997	1,351

¹ Council provided existing assets CRC values (i.e. 2012/13 \$) are CPI-adjusted to reflect in 2015/16 \$

² Excluding reticulation and 30-year old assets (Source: OC Valuation Report, 14 May 2015)

Notes:

- Assets between 2010 and 2015 are generally not included, as they are not on the asset register. This may have a small impact in the form of lower developer charges.
- Asset valuations exclude contingencies.

5.2.2 Future Capital Works Program

According to the Guidelines, the calculation of capital charge includes capital cost for new works planned within the next 10 years, excluding reticulation assets. However if Council has developed detailed plans beyond 10 years, capital cost of those items can be considered for the capital charge calculation. Only 10 years of the capital works program are included in this DSP.

Capital works for renewals planned within the next 10 years may be included if the existing asset is older than 30 years and/or have been removed from the asset register. For this DSP it has been assumed that the capital works for renewals are assigned to assets older than 30 years and therefore are included in the calculation.

The 10-year capital works program required to provide sewerage services to the Oberon sewerage scheme is provided in Table 2 in Appendix D (OC 2016 DSP Background Document for Sewerage). The capital works program has been developed as part of OC's asset management plan. Estimates on the capital works program include contingencies.

A summary of the sewerage 10-year capital works program is provided in Table 9.

Table 9: Summary of Sewerage 10 Year Capital Works (2015/16 \$'000)

Service Area	Renewals	New Works	Total
Oberon	1,628	10,567	12,195

The 10-year capital works program for sewerage is shown in Figure 4. Timing of works and expenditure are to be reviewed and updated when required.

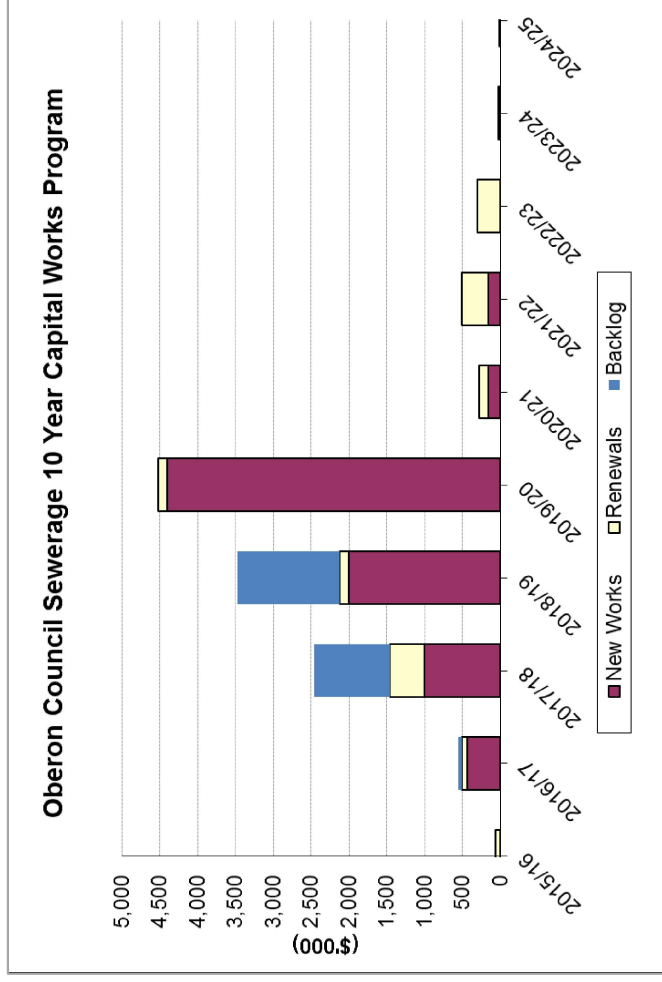


Figure 4: Sewerage 10 Year Capital Works Program

6 LEVELS OF SERVICE

6.1 Water Supply

The target levels of service (LOS) applied to OC's water supply systems are listed in Table 10. These LOS have been developed and adopted as part of the Strategic Business Plan (2013). Consultation was carried out with the councillors, as representatives of the community.

Table 10: Levels of Service for Water Supply

DESCRIPTION	UNIT	LOS Target
AVAILABILITY OF SERVICE		
Normal Quantity Available		
Domestic peak day	L/ET/day	890
Domestic Average Annual Consumption	kL/ET/ year	150
Total Annual Consumption	ML/year	600
Total Peak Daily Consumption	ML/day	5.5
Peak/Average consumption	Ratio	2
Service Provision		
Time to provide a domestic individual connection to water supply in serviced area*	Working days	5
Pressure		
Minimum pressure when delivering 0.1 L/sec	m	12
Maximum static pressure	m	40
Fire Fighting		
Compliance with the Water Supply Investigation Manual* (AS 2419.1 classifications 2,3,4.& 9 with floor area less than 1000 m ²)	% area served	100
CONSUMPTION RESTRICTIONS IN DROUGHTS		
Level of restriction applied through a repeat of the worst drought on record	Restriction as % of normal usage	70%
Average duration of restrictions	Months/10 years	Permanent Level 1 restriction
Average frequency of restrictions	No./10 years	
SUPPLY INTERRUPTIONS TO CUSTOMERS		

DESCRIPTION	UNIT	LOS Target
Planned Interruptions		
Notice given to domestic customers *	Days	1
Notice given to commercial customers *	Days	1
Notice given to industrial customers *	Days	5
Maximum Duration	Hours/event	4
Frequency	No./Year/customer	3
Unplanned Interruptions		
Water main breaks	No./100 km/Year	10
Average duration	Hours/event/year	8
Frequency	No. of interruptions/ 1000 connections/year	5
Response Times for Service Interruptions* (time to have staff on-site commence work after notification)		
Priority 1 (Failure to maintain continuity or quality of supply to a large number of customers or to a critical user at a critical time) – All Customers		
During working hours	Minutes	60
Out of working hours	Minutes	120
Priority 2 (Failure to maintain continuity or quality of supply to a small number of customers or to a non-critical user at a non-critical time) - All Customers		
During working hours	Minutes	60
Out of working hours	Minutes	120
Priority 3 (Failure to maintain continuity or quality of supply to a single customer) – All Customers		
During working hours	Minutes	60
Out of working hours	Minutes	120
CUSTOMER FEEDBACK/ COMPLAINTS@		
Complaints Received		
Water quality complaints	No./1000 connections	<5

DESCRIPTION	UNIT	LOS Target
Service complaints	Per 1000 connections	<5
Billing and account complaints	Per 1000 connections	<5
Other complaints	Per 1000 connections	<2
Response Times for Feedback/ Complaints		
% calls answered by an operator within 30 seconds @*	%	100
General complaints and inquiries:		
Written Complaints*	Working Days	5
Personal/ oral complaints*	Working Days	5
WATER QUALITY		
Microbial Parameters		
Total coliforms	CFU/100ml	<10
E-coli form	CFU/100ml	0
Sampling frequency	Samples/month	4
Physical-chemical Parameters*		
pH	Unit	6.5-8.5
Colour	HU	<15
Turbidity	NTU	<5
Sampling and analysis frequency	No./year	12
Compliance with ADWG 2011		
Physical parameters	%	100
Chemical Parameters@	%	100
Microbiological parameters@	%	100

@ - NWI Performance Indicators;

* Times apply for 95% of incidents

Note: The Levels of Service are the targets, which Council aims to meet; they are not intended as a formal customer contract.

6.2 Sewerage

The target levels of service (LOS) applied to OC's sewerage systems are listed in Table 11.

Table 11: Levels of Service for Sewerage

DESCRIPTION	UNIT	LOS Target
SERVICE AVAILABILITY		
Extent of area serviced	% Service area	100
SYSTEM FAILURES (OVERFLOWS TO THE ENVIRONMENT)		
Category One: Failure due to rainfall and deficient capacity@	No./ 100 km/Year	1
Category Two: Failure due to pump or other breakdown including power failure	No./ 100 km/Year	0
Category Three: Failure due to main blockages and collapses@	No./ 100 km/Year	15
TIME TO HAVE STAFF ON-SITE AND COMMENCE WORK AFTER NOTIFICATION IS LODGED		
Priority One: Failure due to rainfall and deficient capacity@ - All Customers		
During working hours*	Minutes	60
Out of working hours*	Minutes	120
Priority Two: Failure due to pump or other breakdown including power failure - All Customers		
During working hours*	Minutes	60
Out of working hours*	Minutes	120
Priority Three: Failure due to main blockages and collapses@ - All Customers		
During working hours*	Minutes	60
Out of working hours*	Minutes	120

DESCRIPTION	UNIT	LOS Target
CUSTOMER FEEDBACK/ COMPLAINTS@		
Complaints Received		
Service complaints	No./1000 Connections/Year	<10
Odour Complaints		
- Treatment works (outside designated buffer zone)	No./1000 Connections/Year	<1
- Pumping Stations		
- Reticulation system		
Billing and account complaints	No./1000 Connections/Year	<5
Other complaints	No./1000 Connections/Year	<10
Response Times for Feedback/ Complaints		
General complaints and inquiries:		
Written Complaints*	Working Days	5
Personal/ oral complaints*	Working Days	5
ENVIRONMENT@		
Recycle/ reuse of wastewater (dry weather conditions)	% of sewage	0
Sewage treated to:		
Primary level only	% of sewage	0
Up to Secondary level	% of sewage	100
Up to Tertiary	% of sewage	0
Effluent discharge compliance with licence limits	% of samples/year	100

@ - NWI Performance Indicators; * - Times apply for 95% of incidents
Note: The Levels of Service are the targets, which Council aims to meet; they are not intended as a formal customer contract.
(Source: OC SBP Water Supply and Sewerage, 2013)

7 DESIGN PARAMETERS

7.1 Capital Works Program

As part of its Total Asset Management Program (TAMP), Oberon Council updates its capital works program annually to ensure that it is current and takes account of the latest planning and development consideration.

The latest review of the capital works program was completed in January 2017. This program was included in the calculation of the capital charge.

7.2 Other Documents

Investigation, design and construction of water supply components are based on:

- ❑ Council's levels of service (Refer to section 6 above)
- ❑ Water Supply Investigation manual (1986)
- ❑ WSAA water supply code of Australia - WSA 03 2002

Investigation, design and construction of sewerage components are based on:

- ❑ Council's levels of service (Refer to section 6 above)
- ❑ Manual of Practice: Sewer Design (1987)
- ❑ Manual of Practice: Sewage Pumping Station Design (1986)
- ❑ WSAA Sewerage Code of Australia - WSA 02-2002
- ❑ WSAA Pressure Sewerage Code of Australia - WSA 07 - 2007

8 DEVELOPER CHARGES METHODOLOGY

8.1 Timeline

Figure 5 illustrates the timeline of the DSP calculation, including the discounting of existing assets, future assets and ETs.

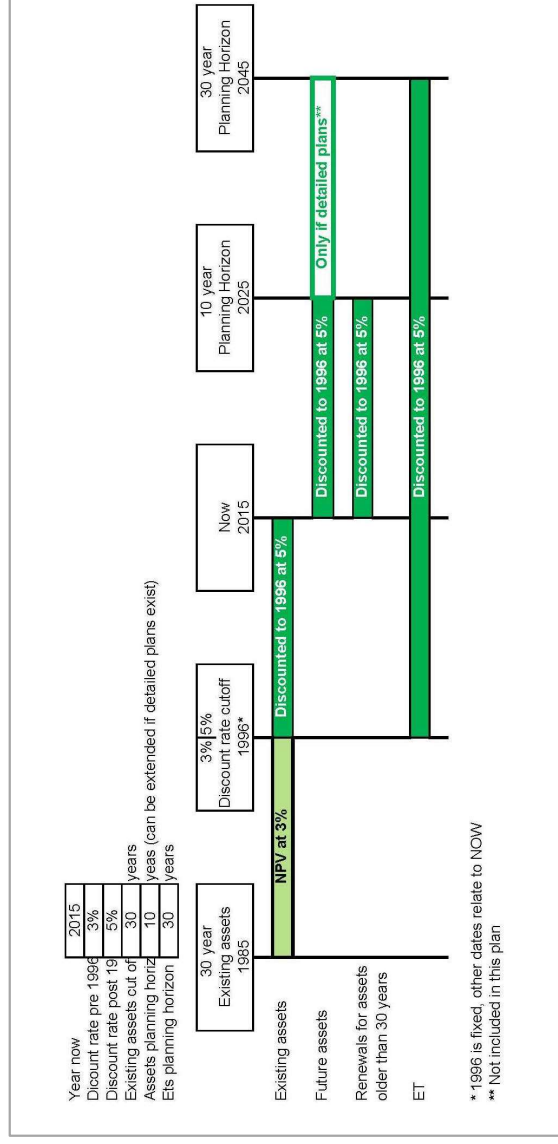


Figure 5: DSP Calculation Timeline

8.2 Capital Charge

The capital charges are calculated for OC water supply and sewerage service areas based on the existing and future assets providing the services to these areas. The capital charge is calculated per ET by dividing PV of effective capital cost of the assets by the PV of number of new ETs.

Effective capital cost is the percentage of capital cost utilised by the post 1995/96 new ETs.

The outcomes of water supply capital charges calculation are provided in Table 3 in Appendix C and summarised in section 9. The outcomes of sewerage capital charge calculation is provided in Table 3 in Appendix D and summarised in section 10.

Generally, the capacity of an asset would not be fully utilised until some years after construction of the asset. The capital charge calculation takes account of the period to full take-up of the capacity of the asset.

The Return on Investment (ROI) is based on the holding cost of early investment and recovery of the cost over time. The annual payments have to provide a ROI to reflect the discounting of future payments. The Guidelines specify the discount rates to be used. These are listed in Table 12.

Table 12: Discount Rates Used in the Capital Charge Calculation

Assets	Discount Rate
Pre-1996 assets	3% pa
Post 1996 assets	5% pa

8.3 Exclusions

The developer charges do not cover the cost of reticulation and assets more than 30 years old. OC does not levy charges for the construction of reticulation pipework. Developers are responsible for the provision of these works. These assets are handed over to OC upon completion of the development.

8.4 Reduction Amount

The reduction amount represents the portion of the cost of assets that OC expects to recover through its annual bills to the new residents.

Council has adopted the Net Present Value (NPV) of annual bills method to calculate the reduction amount. This method calculates the reduction amount as the NPV of 30 years net income from annual charges (revenue from annual bills less OMA) for the development area.

8.5 Developer Charges and Implementation

The developer charge is the capital charge minus the reduction amount. The outcomes of the water supply and sewerage developer charges calculations are included in sections 9 and 10, respectively.

9 WATER SUPPLY DSP

9.1 Scope

OC water supply services are part of a single system and therefore are included in one service area. The boundary of the water supply service area is shown in Appendix A.

9.2 Capital Charge

All the existing assets (excluding 30 years old assets and reticulation work) and new capital works (10 years) required to service OC water serviced areas have been included in the capital charge calculation.

The calculated capital charge for water supply service area is summarised in Table 13 and Table 14. Detailed calculation is provided in Table 3 in Appendix C.

Table 13: Water Supply Effective Capital Cost

Service Area	Capital Cost (2015/16 \$'000)		Percent of Capital Cost Utilised by ETs after 1995/96	Effective Capital Cost (2015/16 \$'000)	
	Existing Assets	10 Year Future Capital Works		Existing Assets	10 Year Future Capital Works
Oberon	\$3,223	\$2,540	10.4%	\$337	\$264

Note: Calculation rounding errors may be applied

Table 14: Water Supply Capital Charge

Service Area	PV of Effective Capital Cost (2015/16 \$'000)		PV of new ETs		Capital Charge per ET (2015/16 \$)
	Pre-1996 Assets	Post 1996 Assets (existing + future)	@3%	@5%	
Oberon	\$186	\$342	226	132	\$3,334

Note: Calculation rounding errors may be applied

9.3 Developer Charge

Developer charge is the capital charge minus the reduction amount. Developer charge detailed calculation is provided in Table 4 in Appendix C.

The reduction amount calculation methodology is provided in section 8.4 and the calculation is provided in Table 5 in Appendix C.

OC water supply DSPs developer charges are summarised in Table 15.

Table 15: Water Supply Developer Charge Calculation (\$/ET)

DSP Area	Capital Charge 2015/16	Reduction Amount	Calculated Developer Charge	Proposed Developer Charge ¹
Oberon	\$3,334	2015/16\$ \$781	\$2,552	2017/18\$ \$2,604

¹ 2016/17 Developer Charge is calculated using 1% pa.

9.4 Water Supply Cross-Subsidy

No cross-subsidy from existing customers is proposed.

10 SEWERAGE DSP

10.1 Scope

OC sewerage services are within a single STP and are therefore included in one service area. The boundary of the water supply service area is shown in Appendix B.

10.2 Capital Charge

All the existing assets (excluding 30 years old assets and reticulation work) and new capital works (10 years) required to service Oberon sewerage service area have been included in the calculation.

The calculated capital charges for the sewerage service areas are summarised in Table 16 and Table 17. Detailed calculation is provided in Tables 3 in Appendix D.

Table 16: Sewerage Effective Capital Cost

Service Area	Capital Cost (2015/16 \$'000)		Percent of Capital cost Utilised by ETs post 1996	Effective Capital Cost (2015/16 \$'000)	
	Existing Assets	10 Year Future Capital Works		Existing Assets	10 Year Future Capital Works
Oberon	\$1,351	\$12,195	24.4	\$329	\$2,975

Note: Calculation rounding errors may be applied

Table 17: Sewerage Capital Charge

Service Area	PV of Effective Capital Cost (2015/16 \$'000)		PV of new ETs		Capital Charge per ET (2015/16 \$)
	Pre-1996 Assets	Post 1996 Assets (existing + future)	@3%	@5%	
Oberon	\$90	\$1,094	160	96	\$11,935

Note: Calculation rounding errors may be applied

10.3 Developer Charge

Detailed calculation of sewerage developer charge and reduction amount is provided in Table 4 and Table 5 in Appendix D. A summary of sewerage calculated developer charge is provided in Table 18.

Table 18: Sewerage Developer Charge Calculation (\$/ET)

DSP Area	Capital Charge 2015/16	Reduction Amount	Calculated Developer Charge	Proposed Developer Charge ¹
			2015/16\$	
Oberon	\$11,984	\$1,507	\$10,477	\$10,688

¹2016/17 Developer Charge is calculated using 1% pa.

10.4 Sewerage Cross-Subsidy

No cross-subsidy from existing customers is proposed.

11 REVIEWING/UPDATING OF CALCULATED DEVELOPER CHARGES

Developer charges relating to these DSPs shall be reviewed every 5 to 6 years. In the period between any reviews, developer charges will be adjusted on 1st July each year on the basis of movements in the CPI for Sydney as required by the Developer Charges Guidelines (excluding the impact of GST). Developer charges will be those charges determined by Council from time to time and will be published in Council's Annual Fees and Charges.

12 BACKGROUND DOCUMENTS

Background information and calculations related to these DSPs are available in the following documents:

- ❑ Developer Charges Guidelines for Water Supply, Sewerage and Stormwater - 2016, published by Department of Primary Industries, DPI Water
- ❑ Oberon Council 2017 DSP Background Document for Water Supply (Appendix C).
- ❑ Oberon Council 2017 DSP Background Document for Sewerage (Appendix D).
- ❑ Oberon Council Water Supply TBL Performance Report (2014/15).
- ❑ Oberon Council Sewerage TBL Performance Report (2015/16).
- ❑ Oberon Council Water Supply and Sewerage Strategic Business Plans (2013).
- ❑ Oberon township servicing strategy, October 2016.

Note: These background documents contain detailed calculations for the capital charges, reduction amount and developer charges, including asset commissioning dates, size/length of assets, MEERA valuation of assets, 10-year capital works program, assets current and future capacities.

13 OTHER DSPs AND RELATED CONTRIBUTION PLANS


Other related plans include:

- ❑ S94 plans as made from time to time by OC



APPENDIX A

WATER SUPPLY SERVICE AREA MAP

 Oberon DSP Boundary





APPENDIX B

SEWERAGE SERVICE AREA MAP





APPENDIX C

BACKGROUND DOCUMENT FOR WATER SUPPLY DSP

The background document comprises:

Table 1 - Existing Assets Calculation

Table 2 - Future Assets

Table 3 - Capital Charge Calculation

Table 4 - Developer Charge calculation

Service Area	Service Type	Asset Name	Asset Type	Capacity/Size	Year of Commissioning	Current Replacement Cost (2014/15 \$)	Current Replacement Cost (2015/16 \$)	Assets excluding Reticulation	Assets excluding pre 1985	Oberon	Assets Excluded
Oberon	Water	Reserve 1 -Roof	Water Reservoirs	1 ML	1967	80,451	82,463	82,463			
Oberon	Water	Reserve 1 -Structure	Water Reservoirs	1 ML	1967	455,890	467,288	467,288			467,288
Oberon	Water	Reserve 3- Roof	Water Reservoirs	3 ML	1985	216,903	222,325	222,325			
Oberon	Water	Reserve 3 - Structure	Water Reservoirs	3 ML	1985	1,229,116	1,259,844	1,259,844			
Oberon	Water	Drying beds - concrete	Water Treatment Works	1.5 ML/d	2001	102,010	104,560	104,560			
Oberon	Water	Filters - bed	Water Treatment Works	1.5 ML/d	2002	83,608	83,648	83,648			
Oberon	Water	Filters - membrane	Water Treatment Works	1.5 ML/d	2002	51,005	52,280	52,280			
Oberon	Water	Instruments	Water Treatment Works	1.5 ML/d	2002	612,060	627,362	627,362			
Oberon	Water	Mains	Water Treatment Works	1.5 ML/d	2002	173,417	177,753	177,753			
Oberon	Water	Water Treatment Plant structures	Water Treatment Works	1.5 ML/d	2001	1,530,151	1,568,405	1,568,405			1,568,405
Oberon	Water	ALBERT ST.	Reticulation	100	2005	31,338	32,122				
Oberon	Water	ALBERT ST.	Reticulation	100	2005	14,652	15,018				
Oberon	Water	ALBERT ST.	Reticulation	100	2005	16,958	17,382				
Oberon	Water	ALBION ST.	Reticulation	100	1993	24,419	25,030				
Oberon	Water	ALBION ST.	Reticulation	100	1981	10,853	11,124				
Oberon	Water	ALBION ST.	Reticulation	100	1979	43,819	44,915				
Oberon	Water	ALBION ST.	Reticulation	100	1981	10,853	11,124				
Oberon	Water	ALBION ST.	Reticulation	100	1993	17,229	17,660				
Oberon	Water	ALBION ST.	Reticulation	100	1993	20,349	20,858				
Oberon	Water	ALBION ST.	Reticulation	100	2000	19,264	19,746				
Oberon	Water	ALBION ST.	Reticulation	100	2005	50,874	52,145				
Oberon	Water	ALBION ST.	Reticulation	100	2000	60,099	61,601				
Oberon	Water	ALBION ST.	Reticulation	100	1990	77,056	78,983				
Oberon	Water	ALBION ST.	Reticulation	100	1990	17,094	17,521				
Oberon	Water	ALBION ST.	Reticulation	100	2005	7,461	7,648				
Oberon	Water	ALBION ST.	Reticulation	100	2000	38,393	39,352				
Oberon	Water	ALBION ST.	Reticulation	100	2005	22,113	22,666				
Oberon	Water	ALBION ST.	Reticulation	100	2005	6,512	6,675				
Oberon	Water	ALBION ST.	Reticulation	100	2005	4,867	4,915				
Oberon	Water	ALBION ST.	Reticulation	100	2005	4,867	4,915				
Oberon	Water	ALBION ST.	Reticulation	100	2000	4,867	4,915				
Oberon	Water	ALBION ST.	Reticulation	100	2000	39,352	39,352				
Oberon	Water	ALBION ST.	Reticulation	100	2005	13,905	13,905				
Oberon	Water	ALBION ST.	Reticulation	100	2010	12,345	12,654				
Oberon	Water	ARMSTRONG PL. PARK	Reticulation	100	2009	12,074	12,376				
Oberon	Water	BALFOUR ST.	Reticulation	100	1958	543	556				
Oberon	Water	BALFOUR ST.	Reticulation	100	2008	47,889	49,086				
Oberon	Water	BALFOUR ST.	Reticulation	100	2008	39,478	40,465				
Oberon	Water	BELL ST.	Reticulation	100	2001	18,993	19,468				
Oberon	Water	BLENNHEIM AVE.	Reticulation	100	2000	40,699	41,716				
Oberon	Water	BLENNHEIM AVE.	Reticulation	100	1979	35,137	36,015				
Oberon	Water	BLIGH ST.	Reticulation	100	2000	32,474	32,261				
Oberon	Water	BLIGH ST.	Reticulation	100	1952	32,695	33,512				
Oberon	Water	BLIGH ST.	Reticulation	100	1965	52,637	53,953				
Oberon	Water	BOUNTY ST.	Reticulation	100	1986	9,496	9,734				
Oberon	Water	BRENNAN CR.	Reticulation	100	1995	5,562	5,701				
Oberon	Water	BRENNAN CR.	Reticulation	100	1995	47,346	48,530				
Oberon	Water	BUCKLEY CR.	Reticulation	100	1996	10,582	10,846				
Oberon	Water	BUCKLEY CR.	Reticulation	100	1996	43,005	44,080				
Oberon	Water	BUCKLEY CR.	Reticulation	100	1996	24,419	25,030				
Oberon	Water	COOK ST.	Reticulation	100	1999	16,280	16,687				
Oberon	Water	COOK ST.	Reticulation	100	1999	16,687	17,104				
Oberon	Water	CUNNINGHAME ST.	Reticulation	100	1997	17,094	17,521				
Oberon	Water	CUNNINGHAME ST.	Reticulation	100	1997	32,423	33,234				

Table 1: Oberon Council Existing Water Assets

Service Area	Service Type	Asset Name	Asset Type	Capacity/Size	Year of Commissioning	Replacement Cost (2014/15 \$)	Current Replacement Cost (2015/16 \$)	Assets excluding Reticulation	Assets excluding pre 1985	Oberon	Assets Excluded
Oberon	Water	CURTIS ST.	Reticulation	100	2010	\$ 49,653	\$ 50,894	-	-	\$ -	\$ 50,894
Oberon	Water	CURTIS ST.	Reticulation	100	2009	\$ 33,916	\$ 34,764	-	-	\$ -	\$ 34,764
Oberon	Water	CURTIS ST.	Reticulation	100	2005	\$ 26,861	\$ 27,533	-	-	\$ -	\$ 27,533
Oberon	Water	CURTIS ST.	Reticulation	100	2005	\$ 31,067	\$ 31,843	-	-	\$ -	\$ 31,843
Oberon	Water	DART ST.	Reticulation	150	1922	\$ 19,178	\$ 19,657	19,657	19,657	\$ 19,657	\$ -
Oberon	Water	DART ST.	Reticulation	100	1992	\$ 13,159	\$ 13,488	-	-	\$ -	\$ 13,488
Oberon	Water	DART ST.	Reticulation	100	2006	\$ 21,706	\$ 22,249	-	-	\$ -	\$ 22,249
Oberon	Water	DART ST.	Reticulation	100	2006	\$ 34,187	\$ 35,042	-	-	\$ -	\$ 35,042
Oberon	Water	DART ST.	Reticulation	100	2006	\$ 31,067	\$ 31,843	-	-	\$ -	\$ 31,843
Oberon	Water	DART ST.	Reticulation	100	2006	\$ 26,726	\$ 27,394	-	-	\$ -	\$ 27,394
Oberon	Water	DART ST.	Reticulation	100	1992	\$ 4,613	\$ 4,728	-	-	\$ -	\$ 4,728
Oberon	Water	DART ST.	Reticulation	100	1992	\$ 27,675	\$ 28,367	-	-	\$ -	\$ 28,367
Oberon	Water	DILTON ST. (EAST)	Reticulation	100	1991	\$ 20,349	\$ 20,858	-	-	\$ -	\$ 20,858
Oberon	Water	DILTON ST. (WEST)	Reticulation	100	1952	\$ 49,653	\$ 50,894	-	-	\$ -	\$ 50,894
Oberon	Water	DR. PERKINS CR.	Reticulation	100	1988	\$ 8,204	\$ 8,204	-	-	\$ -	\$ 8,204
Oberon	Water	DR. PERKINS CR.	Reticulation	100	1988	\$ 19,400	\$ 19,885	-	-	\$ -	\$ 19,885
Oberon	Water	DR. PERKINS CR.	Reticulation	100	1988	\$ 9,089	\$ 9,317	-	-	\$ -	\$ 9,317
Oberon	Water	DUCKMALOI RD.	Reticulation	150	1989	\$ 7,118	\$ 7,296	7,296	7,296	\$ 7,296	\$ -
Oberon	Water	DUCKMALOI RD.	Reticulation	100	2006	\$ 31,067	\$ 31,843	-	-	\$ -	\$ 31,843
Oberon	Water	DUCKMALOI RD.	Reticulation	100	2004	\$ 24,419	\$ 25,030	-	-	\$ -	\$ 25,030
Oberon	Water	DUCKMALOI RD.	Reticulation	100	2004	\$ 25,030	\$ 25,030	-	-	\$ -	\$ 25,030
Oberon	Water	DUCKMALOI RD.	Reticulation	100	2004	\$ 24,419	\$ 25,030	-	-	\$ -	\$ 25,030
Oberon	Water	DUCKMALOI RD.	Reticulation	100	2004	\$ 2,225	\$ 2,225	-	-	\$ -	\$ 2,225
Oberon	Water	DUCKMALOI RD.	Reticulation	100	2000	\$ 69,731	\$ 71,474	-	-	\$ -	\$ 71,474
Oberon	Water	DUCKMALOI RD.	Reticulation	100	1966	\$ 23,334	\$ 23,917	-	-	\$ -	\$ 23,917
Oberon	Water	DUCKMALOI RD.	Reticulation	100	1990	\$ 77,192	\$ 79,122	-	-	\$ -	\$ 79,122
Oberon	Water	DUCKMALOI RD.	Reticulation	100	1966	\$ 19,264	\$ 19,746	-	-	\$ -	\$ 19,746
Oberon	Water	DUCKMALOI RD.	Reticulation	100	1966	\$ 13,159	\$ 13,488	-	-	\$ -	\$ 13,488
Oberon	Water	DUCKMALOI RD.	Reticulation	100	1990	\$ 21,842	\$ 22,388	-	-	\$ -	\$ 22,388
Oberon	Water	DUPLEY ST.	Reticulation	150	2006	\$ 27,482	\$ 28,169	28,169	28,169	\$ 28,169	\$ -
Oberon	Water	DUPLEY ST.	Reticulation	150	2006	\$ 51,998	\$ 53,298	53,298	53,298	\$ 53,298	\$ -
Oberon	Water	DUPLEY ST.	Reticulation	150	2006	\$ 29,854	\$ 30,601	30,601	30,601	\$ 30,601	\$ -
Oberon	Water	DUPLEY ST.	Reticulation	150	2006	\$ 23,923	\$ 24,521	24,521	24,521	\$ 24,521	\$ -
Oberon	Water	DUPLEY ST.	Reticulation	150	2006	\$ 27,066	\$ 27,763	27,763	27,763	\$ 27,763	\$ -
Oberon	Water	DUPLEY ST.	Reticulation	150	2006	\$ 3,163	\$ 3,242	3,242	3,242	\$ 3,242	\$ -
Oberon	Water	DUPLEY ST.	Reticulation	100	2000	\$ 18,633	\$ 18,633	-	-	\$ -	\$ 18,633
Oberon	Water	DUPLEY ST.	Reticulation	100	2000	\$ 38,800	\$ 39,770	-	-	\$ -	\$ 39,770
Oberon	Water	DULCE DR.	Reticulation	100	1995	\$ 14,380	\$ 14,740	-	-	\$ -	\$ 14,740
Oberon	Water	DULCE DR.	Reticulation	100	1988	\$ 6,105	\$ 6,257	-	-	\$ -	\$ 6,257
Oberon	Water	DULCE DR.	Reticulation	100	1988	\$ 9,317	\$ 9,317	-	-	\$ -	\$ 9,317
Oberon	Water	DULCE DR.	Reticulation	100	1988	\$ 6,953	\$ 6,953	-	-	\$ -	\$ 6,953
Oberon	Water	EARL ST.	Reticulation	100	2005	\$ 16,415	\$ 16,826	-	-	\$ -	\$ 16,826
Oberon	Water	EARL ST.	Reticulation	100	1997	\$ 24,148	\$ 24,752	-	-	\$ -	\$ 24,752
Oberon	Water	EARL ST.	Reticulation	100	2001	\$ 16,008	\$ 16,408	-	-	\$ -	\$ 16,408
Oberon	Water	EDITH RD.	Reticulation	100	2003	\$ 33,916	\$ 34,764	-	-	\$ -	\$ 34,764
Oberon	Water	EDITH RD.	Reticulation	100	2003	\$ 31,745	\$ 32,539	-	-	\$ -	\$ 32,539
Oberon	Water	ENDAVOUR ST.	Reticulation	100	1993	\$ 61,184	\$ 62,714	-	-	\$ -	\$ 62,714
Oberon	Water	FACTORY LINK	Reticulation	250	1958	\$ 271,121	\$ 277,899	-	-	\$ -	\$ 277,899

Table 1: Oberon Council Existing Water Assets

Service Area	Service Type	Asset Name	Asset Type	Capacity/Size	Year of Commissioning	Current Replacement Cost (2014/15 \$)	Current Replacement Cost (2015/16 \$)	Assets excluding Reticulation	Assets excluding pre 1985	Oberon	Assets Excluded
Oberon	Water	FACTORY LINK	Gravity Main	250	1964	309,751	317,495	317,495	317,495	-	317,495
Oberon	Water	FACTORY LINK	Gravity Main	250	1956	385,948	395,597	395,597	395,597	-	395,597
Oberon	Water	FACTORY LINK	Gravity Main	250	1958	75,134	77,012	77,012	77,012	-	77,012
Oberon	Water	FACTORY LINK	Gravity Main	250	1958	97,462	99,898	99,898	99,898	-	99,898
Oberon	Water	FACTORY LINK	Gravity Main	250	1958	43,592	44,682	44,682	44,682	-	44,682
Oberon	Water	FACTORY LINK	Gravity Main	250	1958	152,040	155,841	155,841	155,841	-	155,841
Oberon	Water	FACTORY LINK	Gravity Main	250	1964	127,232	130,413	130,413	130,413	-	130,413
Oberon	Water	FACTORY LINK	Gravity Main	250	1964	108,803	111,523	111,523	111,523	-	111,523
Oberon	Water	FACTORY LINK	Gravity Main	250	1964	41,820	42,865	42,865	42,865	-	42,865
Oberon	Water	FARFAX ST.	Reticulation	100	1999	20,485	20,997	20,997	20,997	-	20,997
Oberon	Water	FARFAX ST.	Reticulation	100	1952	33,929	33,929	33,929	33,929	-	33,929
Oberon	Water	FLEMING ST.	Gravity Main	150	1999	28,273	28,979	28,979	28,979	-	28,979
Oberon	Water	FLEMING ST.	Reticulation	100	1997	16,280	16,687	16,687	16,687	-	16,687
Oberon	Water	FLEMING ST.	Reticulation	100	1991	8,899	8,899	8,899	8,899	-	8,899
Oberon	Water	HAWKES CR.	Reticulation	100	1991	10,582	10,846	10,846	10,846	-	10,846
Oberon	Water	HAWKES CR.	Reticulation	100	1991	44,497	45,610	45,610	45,610	-	45,610
Oberon	Water	HOLLIS LN.	Reticulation	100	1991	49,517	50,755	50,755	50,755	-	50,755
Oberon	Water	HORACE ST.	Reticulation	100	1979	37,307	38,240	38,240	38,240	-	38,240
Oberon	Water	HUME ST.	Gravity Main	150	1990	13,247	13,578	13,578	13,578	-	13,578
Oberon	Water	HUNTER ST.	Reticulation	100	2010	13,566	13,905	13,905	13,905	-	13,905
Oberon	Water	JENOLAN ST.	Gravity Main	150	2006	22,539	23,102	23,102	23,102	-	23,102
Oberon	Water	JENOLAN ST.	Reticulation	100	1996	44,497	45,610	45,610	45,610	-	45,610
Oberon	Water	JENOLAN ST.	Gravity Main	150	1996	38,751	39,720	39,720	39,720	-	39,720
Oberon	Water	JENOLAN ST.	Gravity Main	150	1967	33,808	34,654	34,654	34,654	-	34,654
Oberon	Water	JENOLAN ST.	Reticulation	100	1996	22,527	22,527	22,527	22,527	-	22,527
Oberon	Water	JENOLAN ST.	Reticulation	100	1996	29,758	29,758	29,758	29,758	-	29,758
Oberon	Water	JENOLAN ST.	Reticulation	100	1999	3,256	3,337	3,337	3,337	-	3,337
Oberon	Water	JENOLAN ST.	Gravity Main	150	1991	32,622	33,438	33,438	33,438	-	33,438
Oberon	Water	KELLY PL.	Reticulation	100	2001	10,175	10,429	10,429	10,429	-	10,429
Oberon	Water	KING ST.	Reticulation	100	2010	13,566	13,905	13,905	13,905	-	13,905
Oberon	Water	LINKS CL.	Reticulation	100	1998	33,916	34,764	34,764	34,764	-	34,764
Oberon	Water	LOWES MT. RD.	Gravity Main	150	1967	60,697	62,214	62,214	62,214	-	62,214
Oberon	Water	LOWES MT. RD.	Gravity Main	150	1967	24,121	24,724	24,724	24,724	-	24,724
Oberon	Water	LOWES MT. RD.	Gravity Main	150	1980	2,373	2,432	2,432	2,432	-	2,432
Oberon	Water	LOWES MT. RD.	Gravity Main	150	1980	6,688	6,688	6,688	6,688	-	6,688
Oberon	Water	MAHER DR.	Reticulation	100	2005	18,721	19,190	19,190	19,190	-	19,190
Oberon	Water	NORTH ST.	Gravity Main	150	1992	3,756	3,850	3,850	3,850	-	3,850
Oberon	Water	NORTH ST.	Reticulation	100	2002	16,415	16,826	16,826	16,826	-	16,826
Oberon	Water	NORTH ST.	Gravity Main	150	1967	64,651	66,268	66,268	66,268	-	66,268
Oberon	Water	NORTH ST.	Reticulation	100	2001	2,306	2,364	2,364	2,364	-	2,364
Oberon	Water	NORTH ST.	Reticulation	100	2001	8,275	8,482	8,482	8,482	-	8,482
Oberon	Water	NORTH ST.	Reticulation	100	2002	2,985	3,059	3,059	3,059	-	3,059
Oberon	Water	NORTH ST.	Reticulation	100	2001	7,461	7,648	7,648	7,648	-	7,648
Oberon	Water	NORTH ST.	Reticulation	100	2001	9,361	9,595	9,595	9,595	-	9,595
Oberon	Water	NORTH ST.	Reticulation	100	2001	11,260	11,542	11,542	11,542	-	11,542
Oberon	Water	NORTH ST.	Reticulation	100	2001	12,888	13,210	13,210	13,210	-	13,210

Table 1: Oberon Council Existing Water Assets

Table 1: Oberon Council Existing Water Assets

Service Area	Service Type	Asset Name	Asset Type	Capacity/Size	Year of Commissioning	Current Replacement Cost (2014/15 \$)	Current Replacement Cost (2015/16 \$)	Assets excluding Reticulation	Assets excluding 1985	Oberon	Assets Excluded
Oberon	Water	NORTH ST.	Reticulation	100	2001	7,326	7,509				
Oberon	Water	NORTH ST.	Reticulation	100	2001	9,496	9,734				
Oberon	Water	NORTH ST.	Reticulation	100	2001	9,632	9,873				
Oberon	Water	NORTH ST.	Reticulation	100	2001	5,145	5,145				
Oberon	Water	NORTH ST.	Reticulation	100	2001	16,826	16,826				
Oberon	Water	NORTH ST.	Reticulation	100	2001	1,899	1,947				
Oberon	Water	NORTH ST.	Reticulation	100	2001	16,144	16,547				
Oberon	Water	NORTH ST.	Gravity Main	150	1994	15,026	15,402				
Oberon	Water	NORTH ST.	Gravity Main	150	1994	27,679	28,371				
Oberon	Water	NORTH ST.	Gravity Main	150	1994	28,371	28,371				
Oberon	Water	NORTH ST.	Gravity Main	150	1994	3,756	3,850				
Oberon	Water	NORTH ST.	Gravity Main	150	1994	3,850	3,850				
Oberon	Water	NURSE FOX CL.	Reticulation	100	1991	5,969	6,118				
Oberon	Water	O'CONNELL RD.	Reticulation	100	1989	52,230	53,536				
Oberon	Water	O'CONNELL RD.	Reticulation	150	1989	42,310	43,368				
Oberon	Water	O'CONNELL RD.	Gravity Main	150	1989	43,368	43,368				
Oberon	Water	O'CONNELL RD.	Reticulation	100	1958	22,527	22,527				
Oberon	Water	O'CONNELL RD.	Reticulation	100	1958	19,807	20,302				
Oberon	Water	O'CONNELL RD.	Gravity Main	150	1989	39,937	40,936				
Oberon	Water	O'CONNELL RD.	Reticulation	100	2007	16,415	16,826				
Oberon	Water	O'CONNELL RD.	Reticulation	100	1989	49,246	50,477				
Oberon	Water	O'CONNELL RD.	Gravity Main	150	1989	37,960	38,909				
Oberon	Water	ON-AVON AVE.	Reticulation	100	1990	36,629	37,545				
Oberon	Water	PARKES ST.	Reticulation	100	2009	6,376	6,536				
Oberon	Water	PHILLIP ST.	Reticulation	100	2001	13,966	13,965				
Oberon	Water	FINE ST.	Reticulation	100	1958	21,435	21,971				
Oberon	Water	QUEEN ST.	Reticulation	100	2004	49,653	50,894				
Oberon	Water	QUEEN ST.	Reticulation	100	2005	33,916	34,764				
Oberon	Water	QUEEN ST.	Reticulation	100	2005	26,861	27,533				
Oberon	Water	QUEEN ST.	Reticulation	100	2005	31,067	31,843				
Oberon	Water	QUEEN ST.	Reticulation	100	2005	64,983	66,607				
Oberon	Water	QUEEN ST.	Reticulation	100	2005	2,713	2,781				
Oberon	Water	QUEEN ST.	Reticulation	100	2005	24,962	25,586				
Oberon	Water	QUEEN ST.	Reticulation	100	1952	19,190	19,190				
Oberon	Water	RALEIGH ST.	Reticulation	100	2006	16,415	16,826				
Oberon	Water	RALEIGH ST.	Reticulation	100	2006	18,450	18,911				
Oberon	Water	RICHARDS PARK	Reticulation	100	1997	8,547	8,760				
Oberon	Water	ROSS ST.	Reticulation	100	2001	16,144	16,547				
Oberon	Water	ROSS ST.	Reticulation	150	2001	30,645	31,411				
Oberon	Water	ROSS ST.	Gravity Main	150	2001	27,877	28,574				
Oberon	Water	ROSS ST.	Gravity Main	150	2001	28,574	28,574				
Oberon	Water	ROSS ST.	Gravity Main	150	2001	24,121	24,724				
Oberon	Water	ROSS ST.	Gravity Main	150	2001	27,284	27,966				
Oberon	Water	ROSS ST.	Gravity Main	150	2001	2,768	2,837				
Oberon	Water	ROSS ST.	Reticulation	100	1952	18,721	19,190				
Oberon	Water	ROSS ST.	Reticulation	100	2001	9,039	9,039				
Oberon	Water	ROSS ST.	Reticulation	100	1952	16,144	16,547				
Oberon	Water	ROSS ST.	Reticulation	100	1980	48,025	49,225				
Oberon	Water	ROSS ST.	Reticulation	100	2001	18,043	18,494				
Oberon	Water	ROSS ST.	Reticulation	100	1959	16,008	16,408				
Oberon	Water	RUPERT ST.	Reticulation	100	2007	15,466	15,852				
Oberon	Water	RUPERT ST.	Reticulation	100	2007	9,225	9,456				
Oberon	Water	SCOTIA AVE.	Reticulation	100	1996	14,516	14,879				
Oberon	Water	SCOTIA AVE.	Reticulation	100	1996	34,594	35,459				

Table 2: Oberon Council Water Capital Works Program

All values are in year; (\$'000)

Project	New Works	Renewals	Project Total	2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45				
Oberon																																					
Water Mains - Retention	100%		537			215	161																														
Water Mains - Trunk	100%		349			81								269																							
Water Reservoirs - Concrete	100%		0																																		
Flowmeters for Water Loss Program	100%		0																																		
Domestic Meter Replacement	100%		1,129		107	107	54							107	107	54																					
WTP & WPS Painting/Cleaning Program	100%		322		11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11		
Replace Renewal VSD's	100%		11		11																																
Replace Flow Switches	100%		2		2																																
Telermery link to Oberon Dam	100%		22		22																																
WTP - Conventional - Drying Beds - concrete	100%		183																																		
WTP - Conventional - Filters - bed	100%		129																																		
WTP - Conventional - Filters - membrane	100%		258																																		
WTP - Conventional - Instruments	100%		322			0																															
WTP - Conventional - Instruments Deleted first 10 years	100%		269																																		
WTP - Piping Works within the plant	100%		269																																		
WTP - Conventional - Water Treatment Plant Structures	100%		215																																		
WTP - Carbon Filters for Algae Control	100%		269																																		
WTP - Flotation System	100%		0																																		
WTP - Mechanical Thickener Upgrade	100%		0																																		
WTP - Membrane Tank Damage System Upgrade, including pumps	75%	25%	0																																		
Upgrade PLC and switch board components	100%		37																																		
WTP - Chlorine Analyser on Raw Water Inflow	100%		0																																		
Drought Emergency Bore	100%		107																																		
Extend water service to adjacent township-Stage 1	100%		93																																		
Extend water service to adjacent township-Stage 2	100%		526																																		
Extend water service to adjacent township-Stage 3	100%		606																																		
			6,596	468	741	172	279	11	274	274	11	274	193	118	1,926	421	226	11	11	11	11	193	570	193	118	118	118	64	11	11	11	11	11	11	11		
New Works			1,816	0	308	107	269	0	263	263	0	263	0	0	303	303	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Renewals			4,780	468	433	64	11	11	11	11	11	11	183	118	1,623	118	226	11	11	11	11	183	570	183	118	118	118	64	11	11	11	11	11	11	11		
Total			6,596	468	741	172	279	11	274	274	11	274	193	118	1,926	421	226	11	11	11	11	193	570	193	118	118	118	64	11	11	11	11	11	11	11		

Table 3: Oberon Council Water Capital Charges Calculations

Year of Commissioning	Effective Year of Commissioning	Capital Cost of existing assets (\$'000)	Capital Cost for renewals only (\$'000)	Capital Cost of new assets only (\$'000)	Percentage of capital works utilised by new ETs	Value of Assets utilised by new ETs	Rate of Return (%)	PV Factor	PV of capital costs (\$2015/16\$)
1985	1986	\$1,482,169			10.4%	\$154,878	3%	1.00	\$154,878
1986	1986	\$0				\$0	3%	1.00	\$0
1987	1986	\$0				\$0	3%	1.00	\$0
1988	1986	\$0				\$0	3%	1.00	\$0
1989	1986	\$177,321				\$18,529	3%	1.00	\$18,529
1996	1986	\$13,578				\$1,419	3%	1.00	\$1,419
1991	1986	\$33,438				\$3,494	3%	1.00	\$3,494
1992	1986	\$23,508				\$2,456	3%	1.00	\$2,456
1993	1986	\$47,623				\$4,976	3%	1.00	\$4,976
1994	1986	\$0				\$0	3%	1.00	\$0
1996	1996	\$0				\$0	3%	1.00	\$0
1998	1998	\$0				\$0	5%	0.86	\$0
1999	1998	\$28,979				\$3,028	5%	0.82	\$2,491
2000	2000	\$0				\$0	5%	0.76	\$0
2001	2001	\$1,961,861				\$205,003	5%	0.75	\$152,976
2002	2002	\$941,043				\$96,333	5%	0.71	\$69,894
2003	2003	\$0				\$0	5%	0.68	\$0
2004	2004	\$0				\$0	5%	0.64	\$0
2005	2005	\$0				\$0	5%	0.61	\$0
2006	2006	\$261,280				\$26,298	5%	0.58	\$15,933
2007	2007	\$0				\$0	5%	0.56	\$0
2008	2008	\$0				\$0	5%	0.53	\$0
2009	2009	\$0				\$0	5%	0.51	\$0
2010	2010	\$0				\$0	5%	0.48	\$0
2011	2011	\$0				\$0	5%	0.46	\$0
2012	2012	\$0				\$0	5%	0.44	\$0
2013	2013	\$0				\$0	5%	0.42	\$0
2014	2014	\$0				\$0	5%	0.40	\$0
Future									
2015	2015	\$467,532				\$48,854	5%	0.38	\$18,413
2016	2016	\$432,996				\$77,994	5%	0.36	\$27,790
2017	2017	\$64,487				\$17,969	5%	0.34	\$9,998
2018	2018	\$268,697				\$29,200	5%	0.33	\$9,907
2019	2019	\$10,748				\$1,123	5%	0.31	\$348
2020	2020	\$263,000				\$26,605	5%	0.30	\$8,447
2021	2021	\$10,748				\$26,605	5%	0.28	\$8,045
2022	2022	\$10,748				\$1,123	5%	0.27	\$301
2023	2023	\$193,462				\$20,216	5%	0.26	\$6,577
2024	2024	\$118,226				\$12,954	5%	0.24	\$3,001
2025	2025	\$0				\$0	5%	0.23	\$0
2026	2026	\$0				\$0	5%	0.22	\$0
2027	2027	\$0				\$0	5%	0.21	\$0
2028	2028	\$0				\$0	5%	0.20	\$0
2029	2029	\$0				\$0	5%	0.19	\$0
2030	2030	\$0				\$0	5%	0.18	\$0
2031	2031	\$0				\$0	5%	0.17	\$0
2032	2032	\$0				\$0	5%	0.16	\$0
2033	2033	\$0				\$0	5%	0.16	\$0
2034	2034	\$0				\$0	5%	0.15	\$0
2035	2035	\$0				\$0	5%	0.14	\$0
2036	2036	\$0				\$0	5%	0.14	\$0
2037	2037	\$0				\$0	5%	0.13	\$0
2038	2038	\$0				\$0	5%	0.12	\$0
2039	2039	\$0				\$0	5%	0.12	\$0
2040	2040	\$0				\$0	5%	0.11	\$0
2041	2041	\$0				\$0	5%	0.11	\$0
2042	2042	\$0				\$0	5%	0.10	\$0
2043	2043	\$0				\$0	5%	0.10	\$0
2044	2044	\$0				\$0	5%	0.09	\$0
Subtotal (Assets post-1996)		\$ 3,222,892				\$ 398,773			\$ 244,657
Subtotal (Assets pre-1996)		\$ 1,777,637				\$ 185,753			\$ 185,753
Existing									
Subtotal (Assets post-1996)		\$ 3,222,892				\$ 398,773			\$ 244,657
Future									
2015	2015	\$467,532				\$48,854	5%	0.38	\$18,413
2016	2016	\$432,996				\$77,994	5%	0.36	\$27,790
2017	2017	\$64,487				\$17,969	5%	0.34	\$9,998
2018	2018	\$268,697				\$29,200	5%	0.33	\$9,907
2019	2019	\$10,748				\$1,123	5%	0.31	\$348
2020	2020	\$263,000				\$26,605	5%	0.30	\$8,447
2021	2021	\$10,748				\$26,605	5%	0.28	\$8,045
2022	2022	\$10,748				\$1,123	5%	0.27	\$301
2023	2023	\$193,462				\$20,216	5%	0.26	\$6,577
2024	2024	\$118,226				\$12,954	5%	0.24	\$3,001
2025	2025	\$0				\$0	5%	0.23	\$0
2026	2026	\$0				\$0	5%	0.22	\$0
2027	2027	\$0				\$0	5%	0.21	\$0
2028	2028	\$0				\$0	5%	0.20	\$0
2029	2029	\$0				\$0	5%	0.19	\$0
2030	2030	\$0				\$0	5%	0.18	\$0
2031	2031	\$0				\$0	5%	0.17	\$0
2032	2032	\$0				\$0	5%	0.16	\$0
2033	2033	\$0				\$0	5%	0.16	\$0
2034	2034	\$0				\$0	5%	0.15	\$0
2035	2035	\$0				\$0	5%	0.14	\$0
2036	2036	\$0				\$0	5%	0.14	\$0
2037	2037	\$0				\$0	5%	0.13	\$0
2038	2038	\$0				\$0	5%	0.12	\$0
2039	2039	\$0				\$0	5%	0.12	\$0
2040	2040	\$0				\$0	5%	0.11	\$0
2041	2041	\$0				\$0	5%	0.11	\$0
2042	2042	\$0				\$0	5%	0.10	\$0
2043	2043	\$0				\$0	5%	0.10	\$0
2044	2044	\$0				\$0	5%	0.09	\$0
Subtotal (Assets post-1996)		\$ 3,222,892				\$ 398,773			\$ 244,657
Future									
2015	2015	\$467,532				\$48,854	5%	0.38	\$18,413
2016	2016	\$432,996				\$77,994	5%	0.36	\$27,790
2017	2017	\$64,487				\$17,969	5%	0.34	\$9,998
2018	2018	\$268,697				\$29,200	5%	0.33	\$9,907
2019	2019	\$10,748				\$1,123	5%	0.31	\$348
2020	2020	\$263,000				\$26,605	5%	0.30	\$8,447
2021	2021	\$10,748				\$26,605	5%	0.28	\$8,045
2022	2022	\$10,748				\$1,123	5%	0.27	\$301
2023	2023	\$193,462				\$20,216	5%	0.26	\$6,577
2024	2024	\$118,226				\$12,954	5%	0.24	\$3,001
2025	2025	\$0				\$0	5%	0.23	\$0
2026	2026	\$0				\$0	5%	0.22	\$0
2027	2027	\$0				\$0	5%	0.21	\$0
2028	2028	\$0				\$0	5%	0.20	\$0
2029	2029	\$0				\$0	5%	0.19	\$0
2030	2030	\$0				\$0	5%	0.18	\$0
2031	2031	\$0				\$0	5%	0.17	\$0
2032	2032	\$0				\$0	5%	0.16	\$0
2033	2033	\$0				\$0	5%	0.16	\$0
2034	2034	\$0				\$0	5%	0.15	\$0
2035	2035	\$0				\$0	5%	0.14	\$0
2036	2036	\$0				\$0	5%	0.14	\$0
2037	2037	\$0				\$0	5%	0.13	\$0
2038	2038	\$0				\$0	5%	0.12	\$0
2039	2039	\$0				\$0	5%	0.12	\$0
2040	2040	\$0				\$0	5%	0.11	\$0
2041	2041	\$0				\$0	5%	0.11	\$0
2042	2042	\$0				\$0	5%	0.10	\$0
2043	2043	\$0				\$0	5%	0.10	\$0
2044	2044	\$0				\$0	5%	0.09	\$0
Subtotal (Assets post-1996)		\$ 3,222,892				\$ 398,773			\$ 244,657
Future									
2015	2015	\$467,532				\$48,854	5%	0.38	\$18,413
2016	2016	\$432,996				\$77,994	5%	0.36	\$27,790
2017	2017	\$64,487				\$17,969	5%	0.34	\$9,998
2018	2018	\$268,697				\$29,200	5%	0.33	\$9,907
2019	2019	\$10,748				\$1,123	5%	0.31	\$348
2020	2020	\$263,000				\$26,605	5%	0.30	\$8,447
2021	2021	\$10,748				\$26,605	5%	0.28	\$8,045
2022	2022	\$10,748				\$1,123	5%	0.27	\$301
2023	2023	\$193,462				\$20,216	5%	0.26	\$6,577
2024	2024	\$118,226				\$12,954	5%	0.24	\$3,001
2025	2025	\$0				\$0	5%	0.23	\$0
2026	2026	\$0				\$0	5%	0.22	\$0
2027	2027	\$0				\$0	5%	0.21	\$0
2028	2028	\$0				\$0	5%	0.2	

Table 4: Oberon Council Water Developer Charge Calculations

Capital Charge per ET (2015/16\$)	DSP Area (\$/ET)	Reduction Amount (\$/ET)	Developer Charge (2015/16\$) (\$/ET)	Council Adopted Developer Charge (\$/ET) 2015/16	Calculated Developer Charge (\$/ET) 2016/17	Council Proposed Developer Charge (\$/ET) 2017/18
3,334	WDSP	781	\$2,552		\$2,578	\$2,604

Table 5: Oberon Council Water Reduction Amount Calculation

Average Bill per ET	Average OMA Cost per ET	Net Income
\$289	\$224	\$65
2014/15		

Year	Total ETS	New ETS	PV Factor	PV of new Ets	Cumulative new ETS	Net income from new ETS	PV of Net income from new ETS	Reduction Amount (\$/ET)
2014/15	4,865							
2015/16	4,876	11	1.00	11	11	\$719	\$719	
2016/17	4,887	11	0.95	10	22	\$1,438	\$1,370	
2017/18	4,898	11	0.91	10	33	\$2,157	\$1,957	
2018/19	4,910	12	0.86	10	45	\$2,942	\$2,541	
2019/20	4,922	12	0.82	10	57	\$3,726	\$3,065	
2020/21	4,943	21	0.78	16	78	\$5,099	\$3,995	
2021/22	4,964	21	0.75	16	99	\$6,471	\$4,829	
2022/23	4,985	21	0.71	15	120	\$7,844	\$5,575	
2023/24	5,006	21	0.68	14	141	\$9,217	\$6,238	
2024/25	5,027	21	0.64	14	162	\$10,589	\$6,826	
2025/26	5,050	23	0.61	14	185	\$12,093	\$7,424	
2026/27	5,073	23	0.58	13	208	\$13,596	\$7,949	
2027/28	5,096	23	0.56	13	231	\$15,100	\$8,408	
2028/29	5,119	23	0.53	12	254	\$16,603	\$8,805	
2029/30	5,142	23	0.51	12	277	\$18,107	\$9,145	
2030/31	5,165	23	0.48	11	300	\$19,610	\$9,433	
2031/32	5,188	23	0.46	11	323	\$21,113	\$9,672	
2032/33	5,211	23	0.44	10	346	\$22,617	\$9,868	
2033/34	5,234	23	0.42	10	369	\$24,120	\$10,022	
2034/35	5,257	23	0.40	9	392	\$25,624	\$10,140	
2035/36	5,270	13	0.38	5	405	\$26,474	\$9,978	
2036/37	5,283	13	0.36	5	418	\$27,323	\$9,807	
2037/38	5,296	13	0.34	4	431	\$28,173	\$9,631	
2038/39	5,309	13	0.33	4	444	\$29,023	\$9,449	
2039/40	5,322	13	0.31	4	457	\$29,873	\$9,263	
2040/41	5,335	13	0.30	4	470	\$30,722	\$9,072	
2041/42	5,348	13	0.28	4	483	\$31,572	\$8,879	
2042/43	5,361	13	0.27	3	496	\$32,422	\$8,684	
2043/44	5,374	13	0.26	3	509	\$33,272	\$8,487	
2044/45	5,388	14	0.24	3	523	\$34,187	\$8,306	
				281			\$219,537	\$781



APPENDIX D

BACKGROUND DOCUMENT FOR SEWERAGE DSP

The background document comprises:

Table 1 - Existing Assets Calculation

Table 2 - Future Assets

Table 3 - Capital Charge Calculation

Table 4 - Developer Charge calculation

Table 1: Oberon Council Existing Sewerage Assets

Service Area	Asset Name	Asset Type	Capacity/Size	Year of Commissioning	Current Replacement Cost (2015/16 \$)	Assets excluding Reticulation	Assets excluding pre 1985	Oberon Township	East Oberon	Shared	Assets Excluded
Oberon Township	Oberon WWTW	Sewer	1500 EP	1964	\$ 266,790	\$ 266,790	\$ -	\$ -	\$ -	\$ -	\$ 266,790
Oberon Township	ALBERT ST, Line No 136	Sewer	150	1964	\$ 15,476	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,476
Oberon Township	ALBERT ST, Line No 154	Sewer	150	1964	\$ 18,003	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 18,003
Oberon Township	ALBERT ST, Line No 158	Sewer	150	1964	\$ 27,162	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,162
Oberon Township	ALBERT ST, Line No 159	Sewer	150	1964	\$ 24,635	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,635
Oberon Township	ALBERT ST, Line No 214	Sewer	150	1964	\$ 23,056	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,056
Oberon Township	ALBERT ST, Line No 215	Sewer	150	1964	\$ 20,214	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20,214
Oberon Township	ALBERT ST, Line No 216	Sewer	150	1964	\$ 18,950	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 18,950
Oberon Township	ALBERT ST, Line No 217	Sewer	150	1964	\$ 14,844	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,844
Oberon Township	ALBERT ST, Line No 218	Sewer	150	1998	\$ 20,529	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20,529
Oberon Township	ALBERT ST, Line No 219	Sewer	150	1998	\$ 16,739	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,739
Oberon Township	ALBERT ST, Line No 220	Sewer	150	1998	\$ 13,265	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,265
Oberon Township	ALBERT ST, Line No 221	Sewer	150	1998	\$ 11,370	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,370
Oberon Township	ALBERT ST, Line No 222	Sewer	150	1998	\$ 13,581	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,581
Oberon Township	ALBERT ST, Line No 264	Sewer	150	1964	\$ 34,742	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 34,742
Oberon Township	ALBERT ST, Line No 265	Sewer	150	1964	\$ 8,212	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,212
Oberon Township	ALBERT ST, Line No 323	Sewer	150	1966	\$ 24,635	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,635
Oberon Township	ALBERT ST, Line No 381	Sewer	150	1995	\$ 22,740	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 22,740
Oberon Township	ALBERT ST, Line No 572	Sewer	150	2002	\$ 19,898	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,898
Oberon Township	ALBERT ST, Line No 573	Sewer	150	2002	\$ 8,528	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,528
Oberon Township	ALBERT ST, Line No 588	Sewer	150	1994	\$ 18,634	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 18,634
Oberon Township	ALBERT ST, Line No 589	Sewer	150	1994	\$ 9,791	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,791
Oberon Township	ALBERT ST, Line No 590	Sewer	150	1994	\$ 23,372	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,372
Oberon Township	ALBERT ST, Line No 596	Sewer	150	1990	\$ 12,949	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,949
Oberon Township	ALBERT ST, Line No 597	Sewer	150	1990	\$ 15,792	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,792
Oberon Township	ALBERT ST, Line No 598	Sewer	150	1990	\$ 14,844	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,844
Oberon Township	ALBERT ST, Line No 599	Sewer	150	1990	\$ 8,528	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,528
Oberon Township	ALBERT ST, Line No 600	Sewer	150	1990	\$ 7,264	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,264
Oberon Township	ALBERT ST, Line No 601	Sewer	150	1990	\$ 29,689	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29,689
Oberon Township	ALBERT ST, Line No 602	Sewer	150	2001	\$ 19,898	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 19,898
Oberon Township	ALBERT ST, Line No 609	Sewer	150	1982	\$ 7,896	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,896
Oberon Township	ALBERT ST, Line No 610	Sewer	150	1982	\$ 4,738	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,738
Oberon Township	ALBERT ST, Line No 617	Sewer	150	2005	\$ 14,844	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,844
Oberon Township	ALBERT ST, Line No 618	Sewer	150	2005	\$ 17,371	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 17,371
Oberon Township	ALBERT ST, Line No 619	Sewer	150	2005	\$ 30,004	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 30,004
Oberon Township	ALBERT ST, Line No 620	Sewer	150	2005	\$ 11,370	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,370
Oberon Township	ALBERT ST, Line No 626	Sewer	150	2006	\$ 23,372	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 23,372
Oberon Township	ALBERT ST, Line No 627	Sewer	150	2006	\$ 10,107	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,107
Oberon Township	ALBERT ST, Line No 630	Sewer	150	2006	\$ 16,424	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 16,424
Oberon Township	ALBERT ST, Line No 631	Sewer	150	2006	\$ 10,107	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,107
Oberon Township	ALBERT ST, Line No 632	Sewer	150	2005	\$ 18,003	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 18,003
Oberon Township	ALBERT ST, Line No 633	Sewer	150	2006	\$ 14,528	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 14,528
Oberon Township	ALBERT ST, Line No 743	Sewer	225	1982	\$ 14,412	\$ 14,412	\$ -	\$ -	\$ -	\$ -	\$ -
Oberon Township	ALBERT ST, Line No 744	Sewer	225	1982	\$ 41,177	\$ 41,177	\$ -	\$ -	\$ -	\$ -	\$ -
Oberon Township	GRAVITY MAIN	Gravity Main	36.236	1982	\$ 36,236	\$ 36,236	\$ -	\$ -	\$ -	\$ -	\$ -
Oberon Township	ARMSTRONG P.L. Line No 106	Sewer	150	1964	\$ 8,843	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 8,843
Oberon Township	ARMSTRONG P.L. Line No 107	Sewer	150	1964	\$ 18,950	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 18,950
Oberon Township	ARMSTRONG P.L. Line No 467	Sewer	150	1964	\$ 15,476	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,476
Oberon Township	ARMSTRONG P.L. Line No 394	Sewer	150	1964	\$ 13,318	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,318
Oberon Township	BALFOUR ST, Line No 394	Sewer	150	1964	\$ 18,950	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 18,950
Oberon Township	BALFOUR ST, Line No 395	Sewer	150	1964	\$ 24,004	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 24,004
Oberon Township	BALFOUR ST, Line No 396	Sewer	150	1964	\$ 26,530	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 26,530
Oberon Township	BALFOUR ST, Line No 397	Sewer	150	1964	\$ 26,214	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 26,214
Oberon Township	BALFOUR ST, Line No 399	Sewer	150	1964	\$ 6,317	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6,317
Oberon Township	BALFOUR ST, Line No 400	Sewer	150	1964	\$ 15,476	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,476
Oberon Township	BALFOUR ST, Line No 401	Sewer	150	1964	\$ 15,792	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,792
Oberon Township	BALFOUR ST, Line No 402	Sewer	150	1964	\$ 20,529	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 20,529
Oberon Township	BALFOUR ST, Line No 403	Sewer	150	1964	\$ 26,214	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 26,214
Oberon Township	BALFOUR ST, Line No 404	Sewer	150	1964	\$ 13,897	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,897
Oberon Township	BALFOUR ST, Line No 421	Sewer	150	1964	\$ 13,265	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,265

Service Area	Asset Name	Asset Type	Capacity/Size	Year of Commissioning	Current Replacement Cost (2015/16 \$)	Assets excluding Reticulation	Assets excluding pre 1985	Oberon Township	East Oberon	Shared	Assets Excluded
Oberon Township	BALFOUR ST, Line No 422	Sewer	150	1964	18,003	\$	\$	\$	\$	\$	18,003
Oberon Township	BALFOUR ST, Line No 423	Sewer	150	1964	19,266	\$	\$	\$	\$	\$	19,266
Oberon Township	BALFOUR ST, Line No 425	Sewer	150	1964	18,950	\$	\$	\$	\$	\$	18,950
Oberon Township	BLENHHEM AVE, Line No 367	Sewer	150	1988	16,108	\$	\$	\$	\$	\$	16,108
Oberon Township	BLENHHEM AVE, Line No 368	Sewer	150	1988	18,003	\$	\$	\$	\$	\$	18,003
Oberon Township	BLENHHEM AVE, Line No 369	Sewer	150	1988	21,477	\$	\$	\$	\$	\$	21,477
Oberon Township	BLENHHEM AVE, Line No 499	Sewer	150	1964	6,948	\$	\$	\$	\$	\$	6,948
Oberon Township	BLENHHEM AVE, Line No 506	Sewer	150	1979	20,529	\$	\$	\$	\$	\$	20,529
Oberon Township	BLENHHEM AVE, Line No 507	Sewer	150	1979	18,950	\$	\$	\$	\$	\$	18,950
Oberon Township	BLENHHEM AVE, Line No 508	Sewer	150	1979	19,582	\$	\$	\$	\$	\$	19,582
Oberon Township	BLENHHEM AVE, Line No 509	Sewer	150	1979	20,845	\$	\$	\$	\$	\$	20,845
Oberon Township	BLENHHEM AVE, Line No 513	Sewer	150	1979	19,582	\$	\$	\$	\$	\$	19,582
Oberon Township	BLENHHEM AVE, Line No 582	Sewer	150	1997	30,320	\$	\$	\$	\$	\$	30,320
Oberon Township	BLENHHEM AVE, Line No 583	Sewer	150	1997	3,790	\$	\$	\$	\$	\$	3,790
Oberon Township	BLIGH ST, Line No 138	Sewer	150	1964	17,371	\$	\$	\$	\$	\$	17,371
Oberon Township	BLIGH ST, Line No 162	Sewer	150	1964	15,792	\$	\$	\$	\$	\$	15,792
Oberon Township	BLIGH ST, Line No 180	Sewer	150	1964	11,370	\$	\$	\$	\$	\$	11,370
Oberon Township	BLIGH ST, Line No 184	Sewer	150	1964	18,950	\$	\$	\$	\$	\$	18,950
Oberon Township	BLIGH ST, Line No 29	Sewer	150	1964	24,635	\$	\$	\$	\$	\$	24,635
Oberon Township	BLIGH ST, Line No 30	Sewer	150	1964	20,529	\$	\$	\$	\$	\$	20,529
Oberon Township	BLIGH ST, Line No 31	Sewer	150	1964	25,267	\$	\$	\$	\$	\$	25,267
Oberon Township	BLIGH ST, Line No 32	Sewer	150	1964	12,002	\$	\$	\$	\$	\$	12,002
Oberon Township	BLIGH ST, Line No 33	Sewer	150	1964	13,265	\$	\$	\$	\$	\$	13,265
Oberon Township	BLIGH ST, Line No 34	Sewer	150	1964	22,740	\$	\$	\$	\$	\$	22,740
Oberon Township	BLIGH ST, Line No 472	Sewer	150	1964	19,266	\$	\$	\$	\$	\$	19,266
Oberon Township	BOUNTY ST, Line No 510	Sewer	150	1964	7,896	\$	\$	\$	\$	\$	7,896
Oberon Township	BOUNTY ST, Line No 607	Sewer	150	2005	11,686	\$	\$	\$	\$	\$	11,686
Oberon Township	BRENNAN CR, Line No 608	Sewer	150	2005	13,581	\$	\$	\$	\$	\$	13,581
Oberon Township	BRENNAN CR, Line No 353	Sewer	150	1995	26,214	\$	\$	\$	\$	\$	26,214
Oberon Township	BRENNAN CR, Line No 354	Sewer	150	1995	12,265	\$	\$	\$	\$	\$	12,265
Oberon Township	BRENNAN CR, Line No 388	Sewer	150	1995	12,633	\$	\$	\$	\$	\$	12,633
Oberon Township	BUCKLEY CR, Line No 166	Sewer	150	1964	24,004	\$	\$	\$	\$	\$	24,004
Oberon Township	BUCKLEY CR, Line No 167	Sewer	150	1964	11,686	\$	\$	\$	\$	\$	11,686
Oberon Township	BUCKLEY CR, Line No 168	Sewer	150	1964	12,318	\$	\$	\$	\$	\$	12,318
Oberon Township	BUCKLEY CR, Line No 169	Sewer	150	1964	5,369	\$	\$	\$	\$	\$	5,369
Oberon Township	BUCKLEY CR, Line No 170	Sewer	150	1964	18,003	\$	\$	\$	\$	\$	18,003
Oberon Township	BUCKLEY CR, Line No 171	Sewer	150	1964	20,214	\$	\$	\$	\$	\$	20,214
Oberon Township	BUCKLEY CR, Line No 172	Sewer	150	1964	5,685	\$	\$	\$	\$	\$	5,685
Oberon Township	BUCKLEY CR, Line No 173	Sewer	150	1964	11,686	\$	\$	\$	\$	\$	11,686
Oberon Township	BUCKLEY CR, Line No 174	Sewer	150	1964	11,686	\$	\$	\$	\$	\$	11,686
Oberon Township	BUCKLEY CR, Line No 175	Sewer	150	1964	12,002	\$	\$	\$	\$	\$	12,002
Oberon Township	BUCKLEY CR, Line No 176	Sewer	150	1964	13,265	\$	\$	\$	\$	\$	13,265
Oberon Township	BUCKLEY CR, Line No 479	Sewer	150	1964	10,738	\$	\$	\$	\$	\$	10,738
Oberon Township	BUCKLEY CR, Line No 480	Sewer	150	1964	7,896	\$	\$	\$	\$	\$	7,896
Oberon Township	BUCKLEY CR, Line No 481	Sewer	150	1964	11,054	\$	\$	\$	\$	\$	11,054
Oberon Township	BUCKLEY CR, Line No 484	Sewer	150	1964	3,158	\$	\$	\$	\$	\$	3,158
Oberon Township	BUCKLEY CR, Line No 485	Sewer	150	1964	23,688	\$	\$	\$	\$	\$	23,688
Oberon Township	BUCKLEY CR, Line No 486	Sewer	150	1964	40,111	\$	\$	\$	\$	\$	40,111
Oberon Township	BUCKLEY CR, Line No 514	Sewer	150	1964	2,211	\$	\$	\$	\$	\$	2,211
Oberon Township	BUCKLEY CR, Line No 515	Sewer	150	1964	2,161	\$	\$	\$	\$	\$	2,161
Oberon Township	CAMPBELLS LN, Line No 137	Sewer	150	1964	23,688	\$	\$	\$	\$	\$	23,688
Oberon Township	CAMPBELLS LN, Line No 151	Sewer	150	1964	10,423	\$	\$	\$	\$	\$	10,423
Oberon Township	CANTWELL LN, Line No 132	Sewer	150	1964	12,318	\$	\$	\$	\$	\$	12,318
Oberon Township	CANTWELL LN, Line No 133	Sewer	150	1964	16,739	\$	\$	\$	\$	\$	16,739
Oberon Township	CANTWELL LN, Line No 134	Sewer	150	1964	11,370	\$	\$	\$	\$	\$	11,370
Oberon Township	CANTWELL LN, Line No 135	Sewer	150	1964	17,687	\$	\$	\$	\$	\$	17,687
Oberon Township	CANTWELL LN, Line No 146	Sewer	150	1964	9,475	\$	\$	\$	\$	\$	9,475
Oberon Township	CARRINGTON AVE, Line No 3	Sewer	150	1964	10,738	\$	\$	\$	\$	\$	10,738
Oberon Township	CARRINGTON AVE, Line No 4	Sewer	150	1964	9,791	\$	\$	\$	\$	\$	9,791
Oberon Township	CARRINGTON AVE, Line No 492	Sewer	150	1964	9,475	\$	\$	\$	\$	\$	9,475

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Service Area	Asset Name	Asset Type	Capacity/Size	Year of Commissioning	Current Replacement Cost (2015/16 \$)	Assets excluding Reticulation	Assets excluding pre 1985	Oboron Township	East Oboron	Shared	Assets Excluded
Oboron Township	CARRINGTON AVE. Line No 5	Sewer	150	1964	18,319	18,319	18,319				18,319
Oboron Township	CHH Line No 749	Sewer	225	1982	28,412	28,412	28,412				28,412
Oboron Township	CHH Line No 750	Sewer	225	1982	51,883	51,883	51,883				51,883
Oboron Township	CHH Line No 751	Sewer	225	1982	4,941	4,941	4,941				4,941
Oboron Township	COOK ST. Line No 155	Sewer	150	1964	6,317	6,317	6,317				6,317
Oboron Township	COOK ST. Line No 156	Sewer	150	1996	19,582	19,582	19,582				19,582
Oboron Township	COOK ST. Line No 157	Sewer	150	1964	4,422	4,422	4,422				4,422
Oboron Township	CRETE ST. Line No 10	Sewer	150	1964	24,319	24,319	24,319				24,319
Oboron Township	CRETE ST. Line No 283	Sewer	150	1964	11,686	11,686	11,686				11,686
Oboron Township	CRETE ST. Line No 398	Sewer	150	1964	6,948	6,948	6,948				6,948
Oboron Township	CRETE ST. Line No 494	Sewer	150	1964	11,370	11,370	11,370				11,370
Oboron Township	CRETE ST. Line No 495	Sewer	150	1964	2,527	2,527	2,527				2,527
Oboron Township	CROWN LAND Line No 127	Sewer	150	1964	19,582	19,582	19,582				19,582
Oboron Township	CROWN LAND Line No 17	Sewer	150	1964	11,370	11,370	11,370				11,370
Oboron Township	CROWN LAND Line No 37	Sewer	150	1964	26,530	26,530	26,530				26,530
Oboron Township	CROWN LAND Line No 38	Sewer	150	1964	24,635	24,635	24,635				24,635
Oboron Township	CROWN LAND Line No 555	Sewer	300	1964	34,020	34,020	34,020				34,020
Oboron Township	CROWN LAND Line No 657	Sewer	300	1964	39,123	39,123	39,123				39,123
Oboron Township	CROWN LAND Line No 658	Sewer	300	1964	36,855	36,855	36,855				36,855
Oboron Township	CROWN LAND Line No 659	Sewer	300	1964	22,113	22,113	22,113				22,113
Oboron Township	CROWN LAND Line No 660	Sewer	300	1964	19,845	19,845	19,845				19,845
Oboron Township	CROWN LAND Line No 661	Sewer	300	1964	18,144	18,144	18,144				18,144
Oboron Township	CROWN LAND Line No 68	Sewer	150	1964	26,846	26,846	26,846				26,846
Oboron Township	CROWN LAND Line No 69	Sewer	150	1964	19,582	19,582	19,582				19,582
Oboron Township	CROWN LAND Line No 699	Sewer	225	1964	15,647	15,647	15,647				15,647
Oboron Township	CROWN LAND Line No 700	Sewer	225	1964	31,707	31,707	31,707				31,707
Oboron Township	CROWN LAND Line No 701	Sewer	225	1964	16,471	16,471	16,471				16,471
Oboron Township	CROWN LAND Line No 702	Sewer	225	1964	15,236	15,236	15,236				15,236
Oboron Township	CROWN LAND Line No 703	Sewer	225	1964	13,589	13,589	13,589				13,589
Oboron Township	CROWN LAND Line No 704	Sewer	225	1964	17,706	17,706	17,706				17,706
Oboron Township	CROWN LAND Line No 705	Sewer	225	1964	14,824	14,824	14,824				14,824
Oboron Township	CROWN LAND Line No 706	Sewer	225	1964	16,471	16,471	16,471				16,471
Oboron Township	CROWN LAND Line No 707	Sewer	225	1964	16,471	16,471	16,471				16,471
Oboron Township	CROWN LAND Line No 708	Sewer	225	1964	26,765	26,765	26,765				26,765
Oboron Township	CROWN LAND Line No 709	Sewer	225	1964	31,295	31,295	31,295				31,295
Oboron Township	CROWN LAND Line No 715	Sewer	225	1982	23,059	23,059	23,059				23,059
Oboron Township	CROWN LAND Line No 717	Sewer	225	1982	29,236	29,236	29,236				29,236
Oboron Township	CROWN LAND Line No 718	Sewer	225	1982	39,942	39,942	39,942				39,942
Oboron Township	CROWN LAND Line No 719	Sewer	225	1982	14,824	14,824	14,824				14,824
Oboron Township	CROWN LAND Line No 720	Sewer	225	1982	13,177	13,177	13,177				13,177
Oboron Township	CROWN LAND Line No 721	Sewer	225	1982	28,824	28,824	28,824				28,824
Oboron Township	CUNNINGHAM ST. Line No 211	Sewer	150	1964	17,687	17,687	17,687				17,687
Oboron Township	CUNNINGHAM ST. Line No 212	Sewer	150	1964	12,318	12,318	12,318				12,318
Oboron Township	CUNNINGHAM ST. Line No 213	Sewer	150	1964	14,528	14,528	14,528				14,528
Oboron Township	CUNNINGHAM ST. Line No 260	Sewer	150	1978	10,107	10,107	10,107				10,107
Oboron Township	CUNNINGHAM ST. Line No 261	Sewer	150	2010	13,897	13,897	13,897				13,897
Oboron Township	CUNNINGHAM ST. Line No 262	Sewer	150	1964	12,318	12,318	12,318				12,318
Oboron Township	CUNNINGHAM ST. Line No 263	Sewer	150	2010	6,948	6,948	6,948				6,948
Oboron Township	CUNNINGHAM ST. (EAST) Line No 18	Sewer	150	1964	16,739	16,739	16,739				16,739
Oboron Township	CUNNINGHAM ST. (EAST) Line No 303	Sewer	150	1964	26,214	26,214	26,214				26,214
Oboron Township	CUNNINGHAM ST. (EAST) Line No 540	Sewer	150	1964	10,423	10,423	10,423				10,423
Oboron Township	CUNNINGHAM ST. (EAST) Line No 541	Sewer	150	1964	13,897	13,897	13,897				13,897
Oboron Township	CUNNINGHAM ST. Line No 43	Sewer	150	1964	8,212	8,212	8,212				8,212
Oboron Township	CUNNINGHAM ST. Line No 44	Sewer	150	1964	8,843	8,843	8,843				8,843
Oboron Township	CUNNINGHAM ST. Line No 519	Sewer	150	1964	26,530	26,530	26,530				26,530
Oboron Township	CUNNINGHAM ST. Line No 574	Sewer	150	2002	12,318	12,318	12,318				12,318
Oboron Township	CUNNINGHAM ST. Line No 575	Sewer	150	2002	5,685	5,685	5,685				5,685
Oboron Township	CUNNINGHAM ST. Line No 585	Sewer	150	1964	27,162	27,162	27,162				27,162
Oboron Township	CUNNINGHAM ST. Line No 61	Sewer	150	1964	20,214	20,214	20,214				20,214

Table 1: Oboron Council Existing Sewerage Assets

Service Area	Asset Name	Asset Type	Capacity/Size	Year of Commissioning	Current Replacement Cost (2015/16 \$)	Assets excluding Reticulation	Assets excluding pre 1985	Oboron Township	East Oboron	Shared	Assets Excluded
Oboron Township	CURTIS ST, Line No 70	Sewer	150	1964	16,739	\$	\$	\$	\$	\$	16,739
Oboron Township	DART ST, Line No 240	Sewer	150	1964	16,108	\$	\$	\$	\$	\$	16,108
Oboron Township	DART ST, Line No 298	Sewer	150	1964	16,739	\$	\$	\$	\$	\$	16,739
Oboron Township	DART ST, Line No 297	Reticalation	150	1964	1,263	\$	\$	\$	\$	\$	1,263
Oboron Township	DART ST, Line No 298	Reticalation	150	1964	19,582	\$	\$	\$	\$	\$	19,582
Oboron Township	DART ST, Line No 488	Reticalation	150	1964	24,635	\$	\$	\$	\$	\$	24,635
Oboron Township	DART ST, Line No 489	Reticalation	150	1964	25,899	\$	\$	\$	\$	\$	25,899
Oboron Township	DART ST, Line No 502	Reticalation	150	1964	19,582	\$	\$	\$	\$	\$	19,582
Oboron Township	DART ST, Line No 568	Reticalation	150	1998	10,423	\$	\$	\$	\$	\$	10,423
Oboron Township	DART ST, Line No 673	Sewer	300	1964	45,927	\$	\$	\$	\$	\$	45,927
Oboron Township	DART ST, Line No 689	Sewer	225	1964	21,000	\$	\$	\$	\$	\$	21,000
Oboron Township	DART ST, Line No 690	Sewer	225	1964	25,118	\$	\$	\$	\$	\$	25,118
Oboron Township	DART ST, Line No 732	Sewer	225	1982	12,765	\$	\$	\$	\$	\$	12,765
Oboron Township	DART ST, Line No 733	Sewer	225	1982	25,942	\$	\$	\$	\$	\$	25,942
Oboron Township	DAVIDSON LN, Line No 473	Reticalation	150	1964	18,950	\$	\$	\$	\$	\$	18,950
Oboron Township	DILLON ST, (EAST) Line No 710	Sewer	225	1964	12,353	\$	\$	\$	\$	\$	12,353
Oboron Township	DILLON ST, (EAST) Line No 711	Sewer	225	1964	17,294	\$	\$	\$	\$	\$	17,294
Oboron Township	DILLON ST, (EAST) Line No 712	Sewer	225	1964	16,883	\$	\$	\$	\$	\$	16,883
Oboron Township	DILLON ST, (EAST) Line No 713	Sewer	225	1964	16,059	\$	\$	\$	\$	\$	16,059
Oboron Township	DILLON ST, Line No 103	Sewer	150	1964	21,477	\$	\$	\$	\$	\$	21,477
Oboron Township	DILLON ST, Line No 309	Sewer	150	1964	8,528	\$	\$	\$	\$	\$	8,528
Oboron Township	DILLON ST, Line No 310	Sewer	150	1964	18,319	\$	\$	\$	\$	\$	18,319
Oboron Township	DILLON ST, Line No 311	Sewer	150	1997	10,423	\$	\$	\$	\$	\$	10,423
Oboron Township	DILLON ST, Line No 443	Sewer	150	1964	16,424	\$	\$	\$	\$	\$	16,424
Oboron Township	DILLON ST, Line No 444	Sewer	150	1964	16,108	\$	\$	\$	\$	\$	16,108
Oboron Township	DILLON ST, Line No 85	Sewer	150	1964	16,739	\$	\$	\$	\$	\$	16,739
Oboron Township	DR, PERKINS CR, Line No 316	Sewer	150	1979	12,318	\$	\$	\$	\$	\$	12,318
Oboron Township	DR, PERKINS CR, Line No 317	Sewer	150	1988	13,265	\$	\$	\$	\$	\$	13,265
Oboron Township	DR, PERKINS CR, Line No 318	Sewer	150	1988	10,738	\$	\$	\$	\$	\$	10,738
Oboron Township	DR, PERKINS CR, Line No 319	Sewer	150	1988	9,791	\$	\$	\$	\$	\$	9,791
Oboron Township	DR, PERKINS CR, Line No 320	Sewer	150	1988	15,160	\$	\$	\$	\$	\$	15,160
Oboron Township	DR, PERKINS CR, Line No 321	Sewer	150	1988	8,212	\$	\$	\$	\$	\$	8,212
Oboron Township	DR, PERKINS CR, Line No 322	Sewer	150	1988	10,107	\$	\$	\$	\$	\$	10,107
Oboron Township	DR, PERKINS CR, Line No 455	Sewer	150	1978	7,580	\$	\$	\$	\$	\$	7,580
Oboron Township	DR, PERKINS CR, Line No 456	Sewer	150	1978	6,001	\$	\$	\$	\$	\$	6,001
Oboron Township	DR, PERKINS CR, Line No 457	Sewer	150	1978	19,582	\$	\$	\$	\$	\$	19,582
Oboron Township	DR, PERKINS CR, Line No 458	Sewer	150	1978	19,582	\$	\$	\$	\$	\$	19,582
Oboron Township	DR, PERKINS CR, Line No 459	Sewer	150	1978	8,843	\$	\$	\$	\$	\$	8,843
Oboron Township	DR, PERKINS CR, Line No 460	Sewer	150	1978	3,790	\$	\$	\$	\$	\$	3,790
Oboron Township	DR, PERKINS CR, Line No 188	Sewer	150	1964	14,844	\$	\$	\$	\$	\$	14,844
Oboron Township	DUCKMALOI RD, Line No 189	Sewer	150	1964	16,739	\$	\$	\$	\$	\$	16,739
Oboron Township	DUCKMALOI RD, Line No 191	Sewer	150	1964	12,949	\$	\$	\$	\$	\$	12,949
Oboron Township	DUCKMALOI RD, Line No 192	Sewer	150	1964	16,424	\$	\$	\$	\$	\$	16,424
Oboron Township	DUCKMALOI RD, Line No 193	Sewer	150	1964	7,896	\$	\$	\$	\$	\$	7,896
Oboron Township	DUCKMALOI RD, Line No 202	Sewer	150	1964	24,951	\$	\$	\$	\$	\$	24,951
Oboron Township	DUCKMALOI RD, Line No 203	Sewer	150	1964	24,635	\$	\$	\$	\$	\$	24,635
Oboron Township	DUCKMALOI RD, Line No 204	Sewer	150	1964	22,740	\$	\$	\$	\$	\$	22,740
Oboron Township	DUCKMALOI RD, Line No 205	Sewer	150	1964	12,318	\$	\$	\$	\$	\$	12,318
Oboron Township	DUCKMALOI RD, Line No 206	Sewer	150	1964	15,160	\$	\$	\$	\$	\$	15,160
Oboron Township	DUCKMALOI RD, Line No 210	Sewer	150	1964	10,423	\$	\$	\$	\$	\$	10,423
Oboron Township	DUCKMALOI RD, Line No 223	Sewer	150	1979	12,633	\$	\$	\$	\$	\$	12,633
Oboron Township	DUCKMALOI RD, Line No 224	Sewer	150	1979	11,054	\$	\$	\$	\$	\$	11,054
Oboron Township	DUCKMALOI RD, Line No 225	Sewer	150	1979	15,476	\$	\$	\$	\$	\$	15,476
Oboron Township	DUCKMALOI RD, Line No 226	Sewer	150	1979	10,423	\$	\$	\$	\$	\$	10,423
Oboron Township	DUCKMALOI RD, Line No 227	Sewer	150	1979	10,738	\$	\$	\$	\$	\$	10,738
Oboron Township	DUCKMALOI RD, Line No 228	Sewer	150	1979	15,792	\$	\$	\$	\$	\$	15,792
Oboron Township	DUCKMALOI RD, Line No 245	Sewer	150	1964	20,845	\$	\$	\$	\$	\$	20,845
Oboron Township	DUCKMALOI RD, Line No 246	Sewer	150	1964	24,004	\$	\$	\$	\$	\$	24,004

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Service Area	Asset Name	Asset Type	Capacity/Size	Year of Commissioning	Replacement Cost (2015/16 \$)	Current Cost	Assets excluding Reticulation	Assets excluding pre 1985	Oboron Township	East Oboron	Shared	Assets Excluded
Oboron Township	DUCKMALOI RD, Line No 247	Sewer	150	1964	24,004	\$	\$	\$	\$	\$	\$	24,004
Oboron Township	DUCKMALOI RD, Line No 248	Reticalation	150	1998	17,371	\$	\$	\$	\$	\$	\$	17,371
Oboron Township	DUCKMALOI RD, Line No 254	Reticalation	150	1964	25,267	\$	\$	\$	\$	\$	\$	25,267
Oboron Township	DUCKMALOI RD, Line No 255	Reticalation	150	1964	22,424	\$	\$	\$	\$	\$	\$	22,424
Oboron Township	DUCKMALOI RD, Line No 305	Reticalation	150	1988	5,369	\$	\$	\$	\$	\$	\$	5,369
Oboron Township	DUCKMALOI RD, Line No 361	Reticalation	150	1988	948	\$	\$	\$	\$	\$	\$	948
Oboron Township	DUCKMALOI RD, Line No 362	Reticalation	150	1988	3,790	\$	\$	\$	\$	\$	\$	3,790
Oboron Township	DUCKMALOI RD, Line No 363	Reticalation	150	1988	25,583	\$	\$	\$	\$	\$	\$	25,583
Oboron Township	DUCKMALOI RD, Line No 364	Reticalation	150	1988	18,319	\$	\$	\$	\$	\$	\$	18,319
Oboron Township	DUCKMALOI RD, Line No 365	Reticalation	150	1988	12,002	\$	\$	\$	\$	\$	\$	12,002
Oboron Township	DUCKMALOI RD, Line No 366	Reticalation	150	1988	19,582	\$	\$	\$	\$	\$	\$	19,582
Oboron Township	DUCKMALOI RD, Line No 370	Reticalation	150	1995	4,106	\$	\$	\$	\$	\$	\$	4,106
Oboron Township	DUCKMALOI RD, Line No 371	Reticalation	150	1995	15,476	\$	\$	\$	\$	\$	\$	15,476
Oboron Township	DUCKMALOI RD, Line No 372	Reticalation	150	1995	4,422	\$	\$	\$	\$	\$	\$	4,422
Oboron Township	DUCKMALOI RD, Line No 373	Reticalation	150	1995	15,476	\$	\$	\$	\$	\$	\$	15,476
Oboron Township	DUCKMALOI RD, Line No 426	Reticalation	150	1964	10,107	\$	\$	\$	\$	\$	\$	10,107
Oboron Township	DUCKMALOI RD, Line No 427	Reticalation	150	1964	12,633	\$	\$	\$	\$	\$	\$	12,633
Oboron Township	DUCKMALOI RD, Line No 428	Reticalation	150	1964	18,003	\$	\$	\$	\$	\$	\$	18,003
Oboron Township	DUCKMALOI RD, Line No 447	Reticalation	150	1964	8,843	\$	\$	\$	\$	\$	\$	8,843
Oboron Township	DUCKMALOI RD, Line No 448	Reticalation	150	1964	14,213	\$	\$	\$	\$	\$	\$	14,213
Oboron Township	DUCKMALOI RD, Line No 450	Reticalation	150	1978	12,002	\$	\$	\$	\$	\$	\$	12,002
Oboron Township	DUCKMALOI RD, Line No 516	Reticalation	150	1979	12,002	\$	\$	\$	\$	\$	\$	12,002
Oboron Township	DUCKMALOI RD, Line No 517	Reticalation	150	1979	20,529	\$	\$	\$	\$	\$	\$	20,529
Oboron Township	DUCKMALOI RD, Line No 518	Reticalation	150	1979	16,424	\$	\$	\$	\$	\$	\$	16,424
Oboron Township	DUCKMALOI RD, Line No 520	Reticalation	150	1964	24,319	\$	\$	\$	\$	\$	\$	24,319
Oboron Township	DUCKMALOI RD, Line No 521	Reticalation	150	1964	20,214	\$	\$	\$	\$	\$	\$	20,214
Oboron Township	DUCKMALOI RD, Line No 522	Reticalation	150	1964	8,212	\$	\$	\$	\$	\$	\$	8,212
Oboron Township	DUCKMALOI RD, Line No 525	Reticalation	150	1964	9,159	\$	\$	\$	\$	\$	\$	9,159
Oboron Township	DUCKMALOI RD, Line No 526	Reticalation	150	1964	21,161	\$	\$	\$	\$	\$	\$	21,161
Oboron Township	DUCKMALOI RD, Line No 667	Gravity Main	300	1964	31,752	\$	\$	\$	\$	\$	\$	31,752
Oboron Township	DUCKMALOI RD, Line No 668	Gravity Main	300	1964	19,845	\$	\$	\$	\$	\$	\$	19,845
Oboron Township	DUCKMALOI RD, Line No 669	Gravity Main	300	1964	31,752	\$	31,752	\$	\$	\$	\$	31,752
Oboron Township	DUCKMALOI RD, Line No 152	Reticalation	150	1964	15,792	\$	\$	\$	\$	\$	\$	15,792
Oboron Township	DUCKMALOI RD, Line No 160	Reticalation	150	1964	25,899	\$	\$	\$	\$	\$	\$	25,899
Oboron Township	DUCKMALOI RD, Line No 161	Reticalation	150	1964	19,898	\$	\$	\$	\$	\$	\$	19,898
Oboron Township	DUCKMALOI RD, Line No 164	Reticalation	150	1964	13,897	\$	\$	\$	\$	\$	\$	13,897
Oboron Township	DUCKMALOI RD, Line No 165	Reticalation	150	1964	27,794	\$	\$	\$	\$	\$	\$	27,794
Oboron Township	DUCKMALOI RD, Line No 19	Reticalation	150	1964	15,160	\$	\$	\$	\$	\$	\$	15,160
Oboron Township	DUCKMALOI RD, Line No 20	Reticalation	150	1964	17,687	\$	\$	\$	\$	\$	\$	17,687
Oboron Township	DUCKMALOI RD, Line No 21	Reticalation	150	1964	14,528	\$	\$	\$	\$	\$	\$	14,528
Oboron Township	DUCKMALOI RD, Line No 22	Reticalation	150	1964	21,161	\$	\$	\$	\$	\$	\$	21,161
Oboron Township	DUCKMALOI RD, Line No 23	Reticalation	150	1964	17,687	\$	\$	\$	\$	\$	\$	17,687
Oboron Township	DUCKMALOI RD, Line No 239	Reticalation	150	1964	17,055	\$	\$	\$	\$	\$	\$	17,055
Oboron Township	DUCKMALOI RD, Line No 24	Reticalation	150	1964	13,581	\$	\$	\$	\$	\$	\$	13,581
Oboron Township	DUCKMALOI RD, Line No 35	Reticalation	150	1964	19,266	\$	\$	\$	\$	\$	\$	19,266
Oboron Township	DUCKMALOI RD, Line No 36	Reticalation	150	1964	14,844	\$	\$	\$	\$	\$	\$	14,844
Oboron Township	DUCKMALOI RD, Line No 511	Reticalation	150	1964	30,004	\$	\$	\$	\$	\$	\$	30,004
Oboron Township	DUCKMALOI RD, Line No 512	Reticalation	150	1964	33,163	\$	\$	\$	\$	\$	\$	33,163
Oboron Township	DUCKMALOI RD, Line No 54	Reticalation	150	1964	10,107	\$	\$	\$	\$	\$	\$	10,107
Oboron Township	DUCKMALOI RD, Line No 55	Reticalation	150	1964	17,687	\$	\$	\$	\$	\$	\$	17,687
Oboron Township	DUCKMALOI RD, Line No 559	Reticalation	150	1998	6,633	\$	\$	\$	\$	\$	\$	6,633
Oboron Township	DUCKMALOI RD, Line No 56	Reticalation	150	1964	24,319	\$	\$	\$	\$	\$	\$	24,319
Oboron Township	DUCKMALOI RD, Line No 57	Reticalation	150	1964	17,687	\$	\$	\$	\$	\$	\$	17,687
Oboron Township	DUCKMALOI RD, Line No 570	Reticalation	150	2002	26,214	\$	\$	\$	\$	\$	\$	26,214
Oboron Township	DUCKMALOI RD, Line No 571	Reticalation	150	2002	14,213	\$	\$	\$	\$	\$	\$	14,213
Oboron Township	DUCKMALOI RD, Line No 58	Reticalation	150	1964	25,583	\$	\$	\$	\$	\$	\$	25,583
Oboron Township	DUCKMALOI RD, Line No 584	Reticalation	150	2001	12,949	\$	\$	\$	\$	\$	\$	12,949
Oboron Township	DUCKMALOI RD, Line No 59	Reticalation	150	1964	18,950	\$	\$	\$	\$	\$	\$	18,950
Oboron Township	DUCKMALOI RD, Line No 60	Reticalation	150	1964	14,213	\$	\$	\$	\$	\$	\$	14,213
Oboron Township	DUCKMALOI RD, Line No 62	Reticalation	150	1964	7,896	\$	\$	\$	\$	\$	\$	7,896

Table 1: Oboron Council Existing Sewerage Assets

Service Area	Service Type	Asset Name	Asset Type	Capacity/Size	Year of Commissioning	Current Replacement Cost (2015/16 \$)	Assets excluding Reticulation	Assets excluding pre 1985	Oboron Township	East Oboron	Shared	Assets Excluded
Oboron Township	Sewer	DUDLEY ST, Line No 63	Reticulation	150	2001	8,212						8,212
Oboron Township	Sewer	DUDLEY ST, Line No 64	Reticulation	150	2001	8,843						8,843
Oboron Township	Sewer	DUDLEY ST, Line No 65	Reticulation	150	2001	7,896						7,896
Oboron Township	Sewer	DUDLEY ST, Line No 66	Reticulation	150	1964	13,581						13,581
Oboron Township	Sewer	DUDLEY ST, Line No 67	Reticulation	150	1964	14,528						14,528
Oboron Township	Sewer	DUDLEY ST, Line No 68	Reticulation	225	1964	35,413						35,413
Oboron Township	Sewer	DUDLEY ST, Line No 714	Gravity Main	225	1964	28,412						28,412
Oboron Township	Sewer	DULCE DR, Line No 348	Reticulation	150	1995	11,666						11,666
Oboron Township	Sewer	DULCE DR, Line No 349	Reticulation	150	1995	10,423						10,423
Oboron Township	Sewer	DULCE DR, Line No 350	Reticulation	150	1995	10,107						10,107
Oboron Township	Sewer	DULCE DR, Line No 351	Reticulation	150	1995	6,633						6,633
Oboron Township	Sewer	DULCE DR, Line No 352	Reticulation	150	1995	17,055						17,055
Oboron Township	Sewer	DULCE DR, Line No 383	Reticulation	150	1995	4,106						4,106
Oboron Township	Sewer	DULCE DR, Line No 384	Reticulation	150	1995	11,370						11,370
Oboron Township	Sewer	DULCE DR, Line No 386	Reticulation	150	1995	20,845						20,845
Oboron Township	Sewer	DULCE DR, Line No 387	Reticulation	150	1995	7,580						7,580
Oboron Township	Sewer	EARL ST, Line No 209	Reticulation	150	1964	22,740						22,740
Oboron Township	Sewer	EARL ST, Line No 432	Reticulation	150	1964	8,843						8,843
Oboron Township	Sewer	EARL ST, Line No 433	Reticulation	150	1964	8,843						8,843
Oboron Township	Sewer	EARL ST, Line No 434	Reticulation	150	1964	10,423						10,423
Oboron Township	Sewer	EARL ST, Line No 542	Reticulation	150	1964	24,635						24,635
Oboron Township	Sewer	EARL ST, Line No 548	Reticulation	150	1964	19,266						19,266
Oboron Township	Sewer	EARL ST, Line No 549	Reticulation	150	1964	5,369						5,369
Oboron Township	Sewer	EARL ST, Line No 581	Reticulation	150	1994	8,528						8,528
Oboron Township	Sewer	EARL ST, Line No 576	Gravity Main	300	1964	31,752	31,752					31,752
Oboron Township	Sewer	EDITH RD, Line No 128	Reticulation	150	1964	21,477						21,477
Oboron Township	Sewer	EDITH RD, Line No 153	Reticulation	150	1964	20,214						20,214
Oboron Township	Sewer	ENDEAVOUR ST, Line No 591	Reticulation	150	1994	6,317						6,317
Oboron Township	Sewer	ENDEAVOUR ST, Line No 592	Reticulation	150	1994	22,740						22,740
Oboron Township	Sewer	ENDEAVOUR ST, Line No 593	Reticulation	150	1994	19,266						19,266
Oboron Township	Sewer	ENDEAVOUR ST, Line No 594	Reticulation	150	1994	13,897						13,897
Oboron Township	Sewer	ENDEAVOUR ST, Line No 595	Reticulation	150	2000	16,739						16,739
Oboron Township	Sewer	FAIRFAX ST, Line No 190	Reticulation	150	1964	13,897						13,897
Oboron Township	Sewer	FAIRFAX ST, Line No 304	Reticulation	150	2000	18,003						18,003
Oboron Township	Sewer	FAIRFAX ST, Line No 445	Reticulation	150	1964	4,106						4,106
Oboron Township	Sewer	FLEMING ST, Line No 83	Reticulation	150	1964	17,687						17,687
Oboron Township	Sewer	FLEMING ST, Line No 84	Reticulation	150	1964	25,583						25,583
Oboron Township	Sewer	FLEMING ST, Line No 97	Reticulation	150	1964	8,528						8,528
Oboron Township	Sewer	FLEMING ST, Line No 98	Reticulation	150	1964	25,899						25,899
Oboron Township	Sewer	GLYNDWR AVE, Line No 229	Reticulation	150	1979	21,477						21,477
Oboron Township	Sewer	GLYNDWR AVE, Line No 230	Reticulation	150	1979	19,266						19,266
Oboron Township	Sewer	GLYNDWR AVE, Line No 231	Reticulation	150	1979	18,844						18,844
Oboron Township	Sewer	GLYNDWR AVE, Line No 232	Reticulation	150	1979	17,371						17,371
Oboron Township	Sewer	GLYNDWR AVE, Line No 234	Reticulation	150	1979	18,634						18,634
Oboron Township	Sewer	GLYNDWR AVE, Line No 236	Reticulation	150	1979	15,476						15,476
Oboron Township	Sewer	GLYNDWR AVE, Line No 314	Reticulation	150	1979	5,685						5,685
Oboron Township	Sewer	GLYNDWR AVE, Line No 315	Reticulation	150	1979	19,266						19,266
Oboron Township	Sewer	GLYNDWR AVE, Line No 503	Reticulation	150	1964	23,372						23,372
Oboron Township	Sewer	GLYNDWR AVE, Line No 505	Reticulation	150	1979	19,266						19,266
Oboron Township	Sewer	GLYNDWR AVE, Line No 527	Reticulation	150	1979	7,580						7,580
Oboron Township	Sewer	GLYNDWR AVE, Line No 528	Reticulation	150	1979	7,896						7,896
Oboron Township	Sewer	GLYNDWR AVE, Line No 529	Reticulation	150	1979	13,581						13,581
Oboron Township	Sewer	GLYNDWR AVE, Line No 530	Reticulation	150	1979	19,266						19,266
Oboron Township	Sewer	GLYNDWR AVE, Line No 531	Reticulation	150	1979	12,318						12,318
Oboron Township	Sewer	HAWKEN ST, Line No 621	Reticulation	150	2005	25,899						25,899
Oboron Township	Sewer	HAWKEN ST, Line No 622	Reticulation	150	2005	12,318						12,318

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Service Area	Service Type	Asset Name	Asset Type	Capacity/Size	Year of Commissioning	Current Replacement Cost (2015/16 \$)	Assets excluding Reticulation	Assets excluding pre 1985	Oberon Township	East Oberon	Shared	Assets Excluded
Oberon Township	Sewer	HAWKEN ST, Line No 624	Reticulation	150	2005	14,213						14,213
Oberon Township	Sewer	HAWKEN ST, Line No 628	Reticulation	150	2006	23,688						23,688
Oberon Township	Sewer	HAWKEN ST, Line No 629	Reticulation	150	2006	30,320						30,320
Oberon Township	Sewer	HAWKEN ST, Line No 634	Reticulation	150	2006	1,263						1,263
Oberon Township	Sewer	HAWKEN ST, Line No 635	Reticulation	150	2006	10,107						10,107
Oberon Township	Sewer	HAWKEN ST, Line No 636	Reticulation	150	2006	26,846						26,846
Oberon Township	Sewer	HAWKEN ST, Line No 637	Reticulation	150	2006	24,319						24,319
Oberon Township	Sewer	HAWKEN ST, Line No 638	Reticulation	150	2006	25,267						25,267
Oberon Township	Sewer	HAWKEN ST, Line No 639	Reticulation	150	2006	25,267						25,267
Oberon Township	Sewer	HAWKEN ST, Line No 640	Reticulation	150	2006	25,267						25,267
Oberon Township	Sewer	HAWKEN ST, Line No 641	Reticulation	150	2006	2,211						2,211
Oberon Township	Sewer	HAWKEN ST, Line No 642	Reticulation	150	2006	15,792						15,792
Oberon Township	Sewer	HAWKEN ST, Line No 643	Reticulation	150	2006	27,478						27,478
Oberon Township	Sewer	HAWKEN ST, Line No 644	Reticulation	150	2006	23,056						23,056
Oberon Township	Sewer	HAWKEN ST, Line No 650	Reticulation	150	2006	16,424						16,424
Oberon Township	Sewer	HAWKEN ST, Line No 651	Reticulation	150	2006	11,370						11,370
Oberon Township	Sewer	HAWKEN ST, Line No 652	Reticulation	150	2006	11,054						11,054
Oberon Township	Sewer	HAWKEN DR, Line No 330	Reticulation	150	2001	5,053						5,053
Oberon Township	Sewer	HAWKEN DR, Line No 331	Reticulation	150	2001	5,053						5,053
Oberon Township	Sewer	HAWKEN DR, Line No 332	Reticulation	150	2001	7,264						7,264
Oberon Township	Sewer	HAWKEN DR, Line No 333	Reticulation	150	1998	5,369						5,369
Oberon Township	Sewer	HAWKEN DR, Line No 341	Reticulation	150	1988	2,211						2,211
Oberon Township	Sewer	HAWKEN DR, Line No 342	Reticulation	150	1988	16,424						16,424
Oberon Township	Sewer	HAWKEN DR, Line No 343	Reticulation	150	1988	20,529						20,529
Oberon Township	Sewer	HAWKEN DR, Line No 344	Reticulation	150	1988	4,422						4,422
Oberon Township	Sewer	HAWKEN DR, Line No 345	Reticulation	150	1988	12,002						12,002
Oberon Township	Sewer	HAWKEN DR, Line No 355	Reticulation	150	1988	18,319						18,319
Oberon Township	Sewer	HAWKEN DR, Line No 356	Reticulation	150	1988	8,528						8,528
Oberon Township	Sewer	HAWKEN DR, Line No 358	Reticulation	150	1988	11,054						11,054
Oberon Township	Sewer	HAWKEN DR, Line No 359	Reticulation	150	1988	13,581						13,581
Oberon Township	Sewer	HAWKEN DR, Line No 360	Reticulation	150	1988	13,265						13,265
Oberon Township	Sewer	HERBORN ST, Line No 295	Reticulation	150	1964	20,214						20,214
Oberon Township	Sewer	HERBORN ST, Line No 296	Reticulation	150	1964	7,264						7,264
Oberon Township	Sewer	HERBORN ST, Line No 544	Reticulation	150	2005	7,580						7,580
Oberon Township	Sewer	HIGH SCHOOL Line No 256	Reticulation	150	1964	25,899						25,899
Oberon Township	Sewer	HIGH SCHOOL Line No 567	Reticulation	150	2002	8,212						8,212
Oberon Township	Sewer	HIGH SCHOOL Line No 569	Reticulation	150	2002	6,633						6,633
Oberon Township	Sewer	HIGH SCHOOL Line No 683	Reticulation	225	1964	16,883						16,883
Oberon Township	Sewer	HIGH SCHOOL Line No 684	Reticulation	225	1964	16,059						16,059
Oberon Township	Sewer	HIGH SCHOOL Line No 685	Reticulation	225	1964	34,177						34,177
Oberon Township	Sewer	HIGH SCHOOL Line No 686	Reticulation	225	1964	29,236						29,236
Oberon Township	Sewer	HIGH SCHOOL Line No 687	Reticulation	225	1964	39,118						39,118
Oberon Township	Sewer	HIGH SCHOOL Line No 739	Reticulation	225	1982	45,295						45,295
Oberon Township	Sewer	HIGH SCHOOL Line No 740	Reticulation	225	1982	33,765						33,765
Oberon Township	Sewer	HIGH SCHOOL Line No 741	Reticulation	225	1982	28,001						28,001
Oberon Township	Sewer	HIGH SCHOOL Line No 742	Reticulation	225	1982	39,530						39,530
Oberon Township	Sewer	HILLS LN, Line No 25	Reticulation	150	1964	14,528						14,528
Oberon Township	Sewer	HILLS LN, Line No 26	Reticulation	150	1964	23,372						23,372
Oberon Township	Sewer	HILLS LN, Line No 27	Reticulation	150	1964	13,897						13,897
Oberon Township	Sewer	HILLS LN, Line No 28	Reticulation	150	1964	25,899						25,899
Oberon Township	Sewer	HILLS LN, Line No 487	Reticulation	150	1964	8,528						8,528
Oberon Township	Sewer	HILLS LN, Line No 301	Reticulation	150	1964	2,527						2,527
Oberon Township	Sewer	HILLS LN, Line No 302	Reticulation	150	1964	20,214						20,214
Oberon Township	Sewer	HILLS LN, Line No 674	Reticulation	300	1964	32,886						32,886
Oberon Township	Sewer	HILLS LN, Line No 675	Reticulation	300	1964	36,288						36,288
Oberon Township	Sewer	HOLLIS LN, Line No 734	Gravity Main	225	1982	40,354						40,354
Oberon Township	Sewer	HOLLIS LN, Line No 611	Reticulation	150	1982	948						948
Oberon Township	Sewer	HOLLIS LN, Line No 612	Reticulation	150	1982	3,790						3,790
Oberon Township	Sewer	HORACE ST, Line No 613	Reticulation	150	1982	4,422						4,422
Oberon Township	Sewer	HORACE ST, Line No 614	Reticulation	150	1982	19,266						19,266

Service Area	Asset Type	Asset Name	Asset Type	Capacity/Size	Year of Commissioning	Current Replacement Cost (2015/16 \$)	Assets excluding Reticulation	Assets excluding pre 1985	Oboron Township	East Oboron	Shared	Assets Excluded
Oboron Township	Sewer	HORACE ST. Line No 615	Reticalation	150	1982	4,738						4,738
Oboron Township	Sewer	HORACE ST. Line No 625	Reticalation	150	1990	12,002						12,002
Oboron Township	Sewer	HORACE ST. Line No 746	Gravity Main	225	1982	43,648						43,648
Oboron Township	Sewer	HORACE ST. Line No 748	Gravity Main	225	1982	39,118						39,118
Oboron Township	Sewer	HUNTER ST. Line No 490	Reticalation	150	1964	5,053						5,053
Oboron Township	Sewer	HUNTER ST. Line No 91	Reticalation	150	1964	12,949						12,949
Oboron Township	Sewer	HUNTER ST. Line No 149	Reticalation	150	1964	24,319						24,319
Oboron Township	Sewer	JENOLAN ST. Line No 150	Reticalation	150	1964	18,950						18,950
Oboron Township	Sewer	JENOLAN ST. Line No 155	Reticalation	150	1964	14,213						14,213
Oboron Township	Sewer	JENOLAN ST. Line No 177	Reticalation	150	1964	7,896						7,896
Oboron Township	Sewer	JENOLAN ST. Line No 178	Reticalation	150	1964	15,160						15,160
Oboron Township	Sewer	JENOLAN ST. Line No 185	Reticalation	150	1964	17,371						17,371
Oboron Township	Sewer	JENOLAN ST. Line No 482	Reticalation	150	1964	23,372						23,372
Oboron Township	Sewer	KELLY PL. Line No 112	Reticalation	150	1964	14,528						14,528
Oboron Township	Sewer	KELLY PL. Line No 113	Reticalation	150	1964	18,634						18,634
Oboron Township	Sewer	KELLY PL. Line No 114	Reticalation	150	1964	19,582						19,582
Oboron Township	Sewer	KELLY PL. Line No 115	Reticalation	150	1964	9,791						9,791
Oboron Township	Sewer	KELLY PL. Line No 470	Reticalation	150	1964	9,475						9,475
Oboron Township	Sewer	KELLY PL. Line No 471	Reticalation	150	1964	7,264						7,264
Oboron Township	Sewer	KING ST. Line No 117	Reticalation	150	1964	9,791						9,791
Oboron Township	Sewer	LINKS CL. Line No 476	Reticalation	150	1996	22,740						22,740
Oboron Township	Sewer	LINKS CL. Line No 562	Reticalation	150	2004	22,424						22,424
Oboron Township	Sewer	LINKS CL. Line No 563	Reticalation	150	2004	9,475						9,475
Oboron Township	Sewer	LINKS CL. Line No 564	Reticalation	150	2004	21,793						21,793
Oboron Township	Sewer	LINKS CL. Line No 565	Reticalation	150	2004	21,477						21,477
Oboron Township	Sewer	LUCHEITTI PL. Line No 108	Reticalation	150	1964	13,581						13,581
Oboron Township	Sewer	LUCHEITTI PL. Line No 109	Reticalation	150	1964	9,475						9,475
Oboron Township	Sewer	LUCHEITTI PL. Line No 468	Reticalation	150	1964	21,793						21,793
Oboron Township	Sewer	MAHER DR. Line No 623	Reticalation	150	2005	9,159						9,159
Oboron Township	Sewer	MAHER DR. Line No 645	Reticalation	150	2006	9,475						9,475
Oboron Township	Sewer	MAHER DR. Line No 646	Reticalation	150	2006	18,634						18,634
Oboron Township	Sewer	MAHER DR. Line No 647	Reticalation	150	2006	6,317						6,317
Oboron Township	Sewer	MAHER DR. Line No 648	Reticalation	150	2006	14,844						14,844
Oboron Township	Sewer	MAHER DR. Line No 649	Reticalation	150	2006	25,899						25,899
Oboron Township	Sewer	MAHER DR. Line No 653	Reticalation	150	2007	18,950						18,950
Oboron Township	Sewer	MAHER DR. Line No 654	Reticalation	150	2007	12,633						12,633
Oboron Township	Sewer	MAHER DR. Line No 774	Reticalation	150	2010	18,950						18,950
Oboron Township	Sewer	MARTHURRS LN. Line No 207	Reticalation	150	1964	21,161						21,161
Oboron Township	Sewer	MARTHURRS LN. Line No 208	Reticalation	150	1964	26,846						26,846
Oboron Township	Sewer	MARTHURRS LN. Line No 670	Gravity Main	300	1964	24,381						24,381
Oboron Township	Sewer	MARTHURRS LN. Line No 671	Gravity Main	300	1964	14,742						14,742
Oboron Township	Sewer	MARTHURRS LN. Line No 672	Gravity Main	300	1964	32,319						32,319
Oboron Township	Sewer	NORTH ST. Line No 1	Reticalation	150	1964	8,212						8,212
Oboron Township	Sewer	NORTH ST. Line No 100	Reticalation	150	2000	5,053						5,053
Oboron Township	Sewer	NORTH ST. Line No 101	Reticalation	150	2000	24,319						24,319
Oboron Township	Sewer	NORTH ST. Line No 104	Reticalation	150	1964	22,740						22,740
Oboron Township	Sewer	NORTH ST. Line No 105	Reticalation	150	1964	15,476						15,476
Oboron Township	Sewer	NORTH ST. Line No 2	Reticalation	150	1964	14,213						14,213
Oboron Township	Sewer	NORTH ST. Line No 273	Reticalation	150	1964	11,054						11,054
Oboron Township	Sewer	NORTH ST. Line No 300	Reticalation	150	1964	12,002						12,002
Oboron Township	Sewer	NORTH ST. Line No 390	Reticalation	150	1964	20,529						20,529
Oboron Township	Sewer	NORTH ST. Line No 391	Reticalation	150	1964	21,161						21,161
Oboron Township	Sewer	NORTH ST. Line No 392	Reticalation	150	1964	7,896						7,896

Table 1: Oboron Council Existing Sewerage Assets

Service Area	Service Type	Asset Name	Asset Type	Capacity/Size	Year of Commissioning	Current Replacement Cost (2015/16 \$)	Assets excluding Reticulation	Assets excluding pre 1985	Oboron Township	East Oboron	Shared	Assets Excluded
Oboron Township	Sewer	NORTH ST, Line No 393	Reticulation	150	1964	17,055						17,055
Oboron Township	Sewer	NORTH ST, Line No 406	Reticulation	150	1964	20,529						20,529
Oboron Township	Sewer	NORTH ST, Line No 413	Reticulation	150	1964	7,580						7,580
Oboron Township	Sewer	NORTH ST, Line No 418	Reticulation	150	1964	15,476						15,476
Oboron Township	Sewer	NORTH ST, Line No 419	Reticulation	150	1964	10,738						10,738
Oboron Township	Sewer	NORTH ST, Line No 420	Reticulation	150	1964	13,581						13,581
Oboron Township	Sewer	NORTH ST, Line No 424	Reticulation	150	1964	23,372						23,372
Oboron Township	Sewer	NORTH ST, Line No 469	Reticulation	150	1964	12,949						12,949
Oboron Township	Sewer	NORTH ST, Line No 532	Reticulation	150	1964	18,319						18,319
Oboron Township	Sewer	NORTH ST, Line No 533	Reticulation	150	1964	10,107						10,107
Oboron Township	Sewer	NORTH ST, Line No 89	Reticulation	150	1964	24,951						24,951
Oboron Township	Sewer	NORTH ST, Line No 92	Reticulation	150	1964	6,001						6,001
Oboron Township	Sewer	NORTH ST, Line No 99	Reticulation	150	2000	12,633						12,633
Oboron Township	Sewer	OBERON ST, Line No 414	Reticulation	150	1964	21,477						21,477
Oboron Township	Sewer	OBERON ST, Line No 415	Reticulation	150	1964	19,582						19,582
Oboron Township	Sewer	OBERON ST, Line No 416	Reticulation	150	1964	18,634						18,634
Oboron Township	Sewer	OBERON ST, Line No 417	Reticulation	150	1964	12,949						12,949
Oboron Township	Sewer	OBERON ST, Line No 52	Reticulation	150	1964	8,843						8,843
Oboron Township	Sewer	OBERON ST, Line No 53	Reticulation	150	1964	18,003						18,003
Oboron Township	Sewer	OCONNELL RD, Line No 16	Reticulation	150	1964	21,793						21,793
Oboron Township	Sewer	OCONNELL RD, Line No 292	Reticulation	150	2004	7,264						7,264
Oboron Township	Sewer	OCONNELL RD, Line No 293	Reticulation	150	2004	11,686						11,686
Oboron Township	Sewer	OCONNELL RD, Line No 336	Reticulation	150	1989	4,422						4,422
Oboron Township	Sewer	OCONNELL RD, Line No 407	Reticulation	150	1964	24,951						24,951
Oboron Township	Sewer	OCONNELL RD, Line No 408	Reticulation	150	1964	25,583						25,583
Oboron Township	Sewer	OCONNELL RD, Line No 409	Reticulation	150	1964	25,267						25,267
Oboron Township	Sewer	OCONNELL RD, Line No 410	Reticulation	150	1964	22,109						22,109
Oboron Township	Sewer	OCONNELL RD, Line No 411	Reticulation	150	1964	22,424						22,424
Oboron Township	Sewer	OCONNELL RD, Line No 412	Reticulation	150	1964	12,949						12,949
Oboron Township	Sewer	OCONNELL RD, Line No 435	Reticulation	150	1964	19,266						19,266
Oboron Township	Sewer	OCONNELL RD, Line No 436	Reticulation	150	1964	6,633						6,633
Oboron Township	Sewer	OCONNELL RD, Line No 437	Reticulation	150	1964	24,004						24,004
Oboron Township	Sewer	OCONNELL RD, Line No 466	Reticulation	150	1964	12,949						12,949
Oboron Township	Sewer	OCONNELL RD, Line No 483	Reticulation	150	1964	7,580						7,580
Oboron Township	Sewer	OCONNELL RD, Line No 493	Reticulation	150	1964	5,053						5,053
Oboron Township	Sewer	OCONNELL RD, Line No 504	Reticulation	150	1964	25,267						25,267
Oboron Township	Sewer	PARKES ST, Line No 378	Reticulation	150	1995	14,528						14,528
Oboron Township	Sewer	PARKES ST, Line No 379	Reticulation	150	1995	2,843						2,843
Oboron Township	Sewer	PARKES ST, Line No 380	Reticulation	150	1995	13,581						13,581
Oboron Township	Sewer	PARKES ST, Line No 385	Reticulation	150	1995	11,370						11,370
Oboron Township	Sewer	PARKES ST, Line No 389	Reticulation	150	1995	8,843						8,843
Oboron Township	Sewer	PARKES ST, PARK (NTH) Line No 335	Reticulation	150	1988	1,579						1,579
Oboron Township	Sewer	PARKES ST, PARK (NTH) Line No 337	Reticulation	150	1988	11,054						11,054
Oboron Township	Sewer	PARKES ST, PARK (NTH) Line No 338	Reticulation	150	1988	10,423						10,423
Oboron Township	Sewer	PARKES ST, PARK (NTH) Line No 339	Reticulation	150	1988	6,001						6,001
Oboron Township	Sewer	PARKES ST, PARK (NTH) Line No 340	Reticulation	150	1988	11,686						11,686
Oboron Township	Sewer	PARKES ST, PARK (NTH) Line No 357	Reticulation	150	1988	13,581						13,581
Oboron Township	Sewer	PARKES ST, PARK (NTH) Line No 728	Reticulation	225	1982	9,471						9,471
Oboron Township	Sewer	PARKES ST, PARK (NTH) Line No 729	Reticulation	225	1982	11,530						11,530
Oboron Township	Sewer	PARKES ST, PARK (NTH) Line No 730	Reticulation	225	1982	25,118						25,118
Oboron Township	Sewer	PARKES ST, PARK (NTH) Line No 731	Reticulation	225	1982	19,353						19,353
Oboron Township	Sewer	PARKES ST, PARK (STH) Line No 186	Reticulation	150	1964	16,108						16,108
Oboron Township	Sewer	PARKES ST, PARK (STH) Line No 523	Reticulation	150	1964	6,633						6,633
Oboron Township	Sewer	PARKES ST, PARK (STH) Line No 524	Reticulation	150	1964	16,424						16,424
Oboron Township	Sewer	PARKES ST, PARK (STH) Line No 665	Reticulation	300	1964	26,649						26,649
Oboron Township	Sewer	PARKES ST, PARK (STH) Line No 666	Reticulation	300	1964	32,886						32,886
Oboron Township	Sewer	PARKES ST, PARK (STH) Line No 726	Reticulation	225	1982	13,177						13,177
Oboron Township	Sewer	PARKES ST, PARK (STH) Line No 727	Reticulation	225	1982	7,000						7,000
Oboron Township	Sewer	PHILLIP ST, Line No 110	Reticulation	150	1964	16,108						16,108
Oboron Township	Sewer	PHILLIP ST, Line No 111	Reticulation	150	1964	17,055						17,055

Table 1: Oboron Council Existing Sewerage Assets

Table 1: Oberon Council Existing Sewerage Assets

Service Area	Asset Name	Asset Type	Capacity/Size	Year of Commissioning	Current Replacement Cost (2015/16 \$)	Assets excluding Reticulation	Assets excluding pre 1985	Oberon Township	East Oberon	Shared	Assets Excluded
Oberon Township	PHILLIP ST, Line No 496	Sewer	150	1964	7,896	\$	\$				7,896
Oberon Township	PHILLIP ST, Line No 497	Sewer	150	1964	21,793	\$	\$				21,793
Oberon Township	PHILLIP ST, Line No 498	Reticulation	150	1964	22,424	\$	\$				22,424
Oberon Township	PINE ST, Line No 276	Sewer	150	1964	15,160	\$	\$				15,160
Oberon Township	PINE ST, Line No 277	Reticulation	150	1964	6,317	\$	\$				6,317
Oberon Township	PINE ST, Line No 500	Reticulation	150	1964	10,423	\$	\$				10,423
Oberon Township	PINE ST, Line No 551	Reticulation	150	1964	4,738	\$	\$				4,738
Oberon Township	PINE ST, Line No 552	Sewer	150	1964	12,633	\$	\$				12,633
Oberon Township	PRINCE ST, Line No 129	Reticulation	150	1964	24,319	\$	\$				24,319
Oberon Township	PRINCE ST, Line No 130	Sewer	150	1964	8,212	\$	\$				8,212
Oberon Township	PRINCE ST, Line No 131	Reticulation	150	1964	28,109	\$	\$				28,109
Oberon Township	PRINCE ST, Line No 145	Sewer	150	1964	11,370	\$	\$				11,370
Oberon Township	PRINCE ST, Line No 147	Reticulation	150	1964	17,371	\$	\$				17,371
Oberon Township	PRINCE ST, Line No 148	Sewer	150	1964	21,477	\$	\$				21,477
Oberon Township	PUMPHOUSE Line No 656	Sewer	300	1964	23,247	\$	\$				23,247
Oberon Township	PUMPHOUSE Line No 716	Sewer	225	1982	19,765	\$	\$				19,765
Oberon Township	QUEEN ST, Line No 123	Sewer	150	1964	13,318	\$	\$				13,318
Oberon Township	QUEEN ST, Line No 124	Sewer	150	1964	13,265	\$	\$				13,265
Oberon Township	QUEEN ST, Line No 125	Sewer	150	1964	13,265	\$	\$				13,265
Oberon Township	QUEEN ST, Line No 187	Sewer	150	1964	17,371	\$	\$				17,371
Oberon Township	QUEEN ST, Line No 429	Sewer	150	1964	13,265	\$	\$				13,265
Oberon Township	QUEEN ST, Line No 430	Sewer	150	1964	13,265	\$	\$				13,265
Oberon Township	QUEEN ST, Line No 431	Sewer	150	1964	7,896	\$	\$				7,896
Oberon Township	QUEEN ST, Line No 438	Reticulation	150	1964	9,791	\$	\$				9,791
Oberon Township	QUEEN ST, Line No 446	Reticulation	150	1964	17,371	\$	\$				17,371
Oberon Township	QUEEN ST, Line No 49	Sewer	150	1964	17,371	\$	\$				17,371
Oberon Township	QUEEN ST, Line No 543	Reticulation	150	1988	25,267	\$	\$				25,267
Oberon Township	QUEEN ST, Line No 546	Sewer	150	1964	12,633	\$	\$				12,633
Oberon Township	QUEEN ST, Line No 547	Reticulation	150	1964	19,898	\$	\$				19,898
Oberon Township	QUEEN ST, Line No 662	Sewer	300	1964	38,566	\$	\$				38,566
Oberon Township	QUEEN ST, Line No 663	Sewer	300	1964	18,144	\$	\$				18,144
Oberon Township	QUEEN ST, Line No 664	Sewer	300	1964	31,185	\$	\$				31,185
Oberon Township	QUEEN ST, Line No 697	Sewer	225	1964	19,765	\$	\$				19,765
Oberon Township	QUEEN ST, Line No 722	Sewer	225	1982	9,059	\$	\$				9,059
Oberon Township	QUEEN ST, Line No 723	Sewer	225	1982	6,177	\$	\$				6,177
Oberon Township	QUEEN ST, Line No 724	Sewer	225	1982	8,647	\$	\$				8,647
Oberon Township	QUEEN ST, Line No 725	Sewer	225	1982	38,707	\$	\$				38,707
Oberon Township	QUEEN ST, Line No 73	Reticulation	150	1964	13,581	\$	\$				13,581
Oberon Township	QUEEN ST, Line No 74	Reticulation	150	1964	24,635	\$	\$				24,635
Oberon Township	QUEEN ST, Line No 75	Reticulation	150	1964	16,108	\$	\$				16,108
Oberon Township	QUEEN ST, Line No 76	Reticulation	150	1964	19,266	\$	\$				19,266
Oberon Township	QUEEN ST, Line No 77	Reticulation	150	1964	11,686	\$	\$				11,686
Oberon Township	QUEEN ST, Line No 96	Sewer	150	1996	12,633	\$	\$				12,633
Oberon Township	RAMSGATE LN, Line No 126	Reticulation	150	1964	14,213	\$	\$				14,213
Oberon Township	RAMSGATE LN, Line No 50	Sewer	150	1964	15,792	\$	\$				15,792
Oberon Township	RAMSGATE LN, Line No 51	Sewer	150	1979	9,475	\$	\$				9,475
Oberon Township	ROSS ST, Line No 119	Reticulation	150	1964	6,633	\$	\$				6,633
Oberon Township	ROSS ST, Line No 139	Reticulation	150	1964	9,159	\$	\$				9,159
Oberon Township	ROSS ST, Line No 140	Reticulation	150	2006	1,579	\$	\$				1,579
Oberon Township	ROSS ST, Line No 141	Reticulation	150	2006	25,267	\$	\$				25,267
Oberon Township	ROSS ST, Line No 258	Sewer	150	1964	18,003	\$	\$				18,003
Oberon Township	ROSS ST, Line No 259	Reticulation	150	1964	20,529	\$	\$				20,529
Oberon Township	ROSS ST, Line No 266	Sewer	150	1964	17,687	\$	\$				17,687
Oberon Township	ROSS ST, Line No 312	Reticulation	150	1964	9,791	\$	\$				9,791
Oberon Township	ROSS ST, Line No 313	Reticulation	150	1964	25,267	\$	\$				25,267
Oberon Township	ROSS ST, Line No 441	Reticulation	150	1964	2,843	\$	\$				2,843
Oberon Township	ROSS ST, Line No 442	Reticulation	150	1964	21,793	\$	\$				21,793
Oberon Township	ROSS ST, Line No 47	Reticulation	150	1964	26,530	\$	\$				26,530
Oberon Township	ROSS ST, Line No 48	Reticulation	150	1964	25,899	\$	\$				25,899

Service Area	Asset Name	Asset Type	Capacity/Size	Year of Commissioning	Current Replacement Cost (2015/16 \$)	Assets excluding Reticulation	Assets excluding pre 1985	Oboron Township	East Oboron	Shared	Assets Excluded
Oboron Township	ROSS ST, Line No 501	Sewer	150	1964	6,633	\$	\$	\$	\$	\$	6,633
Oboron Township	ROSS ST, Line No 557	Sewer	150	2002	7,896	\$	\$	\$	\$	\$	7,896
Oboron Township	ROSS ST, Line No 558	Sewer	150	2002	9,791	\$	\$	\$	\$	\$	9,791
Oboron Township	ROSS ST, Line No 586	Sewer	150	1964	12,318	\$	\$	\$	\$	\$	12,318
Oboron Township	ROSS ST, Line No 688	Sewer	225	1964	30,471	\$	30,471	\$	\$	\$	30,471
Oboron Township	ROSS ST, Line No 80	Sewer	150	1964	26,214	\$	\$	\$	\$	\$	26,214
Oboron Township	ROSS ST, Line No 93	Sewer	150	1964	25,267	\$	\$	\$	\$	\$	25,267
Oboron Township	ROSS ST, Line No 94	Sewer	150	1964	19,266	\$	\$	\$	\$	\$	19,266
Oboron Township	RUPERT ST, Line No 405	Sewer	150	1964	12,318	\$	\$	\$	\$	\$	12,318
Oboron Township	RUPERT ST, Line No 406	Sewer	150	1964	14,528	\$	\$	\$	\$	\$	14,528
Oboron Township	RUPERT ST, Line No 462	Sewer	150	1964	19,582	\$	\$	\$	\$	\$	19,582
Oboron Township	RUPERT ST, Line No 463	Sewer	150	1964	18,950	\$	\$	\$	\$	\$	18,950
Oboron Township	RUPERT ST, Line No 464	Sewer	150	1964	5,369	\$	\$	\$	\$	\$	5,369
Oboron Township	RUPERT ST, Line No 465	Sewer	150	1964	13,897	\$	\$	\$	\$	\$	13,897
Oboron Township	SCOTIA AVE, Line No 11	Sewer	150	1964	26,530	\$	\$	\$	\$	\$	26,530
Oboron Township	SCOTIA AVE, Line No 12	Sewer	150	1964	24,951	\$	\$	\$	\$	\$	24,951
Oboron Township	SCOTIA AVE, Line No 13	Sewer	150	1964	26,214	\$	\$	\$	\$	\$	26,214
Oboron Township	SCOTIA AVE, Line No 14	Sewer	150	1964	13,581	\$	\$	\$	\$	\$	13,581
Oboron Township	SCOTIA AVE, Line No 15	Sewer	150	1964	15,792	\$	\$	\$	\$	\$	15,792
Oboron Township	SCOTIA AVE, Line No 275	Sewer	150	1990	11,054	\$	\$	\$	\$	\$	11,054
Oboron Township	SCOTIA AVE, Line No 278	Sewer	150	1964	7,580	\$	\$	\$	\$	\$	7,580
Oboron Township	SCOTIA AVE, Line No 279	Sewer	150	1992	17,371	\$	\$	\$	\$	\$	17,371
Oboron Township	SCOTIA AVE, Line No 280	Sewer	150	1964	24,635	\$	\$	\$	\$	\$	24,635
Oboron Township	SCOTIA AVE, Line No 281	Sewer	150	1964	14,528	\$	\$	\$	\$	\$	14,528
Oboron Township	SCOTIA AVE, Line No 282	Sewer	150	1964	11,054	\$	\$	\$	\$	\$	11,054
Oboron Township	SCOTIA AVE, Line No 284	Sewer	150	1996	12,633	\$	\$	\$	\$	\$	12,633
Oboron Township	SCOTIA AVE, Line No 285	Sewer	150	1964	12,633	\$	\$	\$	\$	\$	12,633
Oboron Township	SCOTIA AVE, Line No 286	Sewer	150	1964	24,635	\$	\$	\$	\$	\$	24,635
Oboron Township	SCOTIA AVE, Line No 287	Sewer	150	1964	8,843	\$	\$	\$	\$	\$	8,843
Oboron Township	SCOTIA AVE, Line No 288	Sewer	150	1964	24,004	\$	\$	\$	\$	\$	24,004
Oboron Township	SCOTIA AVE, Line No 289	Sewer	150	1964	24,004	\$	\$	\$	\$	\$	24,004
Oboron Township	SCOTIA AVE, Line No 290	Sewer	150	1964	28,425	\$	\$	\$	\$	\$	28,425
Oboron Township	SCOTIA AVE, Line No 291	Sewer	150	1964	16,108	\$	\$	\$	\$	\$	16,108
Oboron Township	SCOTIA AVE, Line No 294	Sewer	150	1964	15,160	\$	\$	\$	\$	\$	15,160
Oboron Township	SCOTIA AVE, Line No 553	Sewer	150	2005	10,423	\$	\$	\$	\$	\$	10,423
Oboron Township	SCOTIA AVE, Line No 587	Sewer	150	2001	9,159	\$	\$	\$	\$	\$	9,159
Oboron Township	SCOTIA AVE, Line No 6	Sewer	150	1964	15,792	\$	\$	\$	\$	\$	15,792
Oboron Township	SCOTIA AVE, Line No 7	Sewer	150	1964	16,108	\$	\$	\$	\$	\$	16,108
Oboron Township	SCOTIA AVE, Line No 8	Sewer	150	1964	14,844	\$	\$	\$	\$	\$	14,844
Oboron Township	SCOTIA AVE, Line No 9	Sewer	150	1964	11,686	\$	\$	\$	\$	\$	11,686
Oboron Township	SHOWGROUND Line No 116	Sewer	150	1964	12,318	\$	\$	\$	\$	\$	12,318
Oboron Township	SHOWGROUND Line No 142	Sewer	150	2006	23,688	\$	\$	\$	\$	\$	23,688
Oboron Township	SHOWGROUND Line No 143	Sewer	150	2006	22,109	\$	\$	\$	\$	\$	22,109
Oboron Township	SHOWGROUND Line No 144	Sewer	150	2006	24,319	\$	\$	\$	\$	\$	24,319
Oboron Township	SHOWGROUND Line No 86	Sewer	150	1964	18,950	\$	\$	\$	\$	\$	18,950
Oboron Township	SHOWGROUND Line No 87	Sewer	150	1964	26,214	\$	\$	\$	\$	\$	26,214
Oboron Township	SHOWGROUND Line No 88	Sewer	150	1964	12,633	\$	\$	\$	\$	\$	12,633
Oboron Township	SIRIUS ST, Line No 603	Sewer	150	2001	18,003	\$	\$	\$	\$	\$	18,003
Oboron Township	SIRIUS ST, Line No 604	Sewer	150	2001	17,687	\$	\$	\$	\$	\$	17,687
Oboron Township	SIRIUS ST, Line No 605	Sewer	150	2006	23,056	\$	\$	\$	\$	\$	23,056
Oboron Township	SPICER PL, Line No 536	Sewer	150	1964	11,686	\$	\$	\$	\$	\$	11,686
Oboron Township	SPICER PL, Line No 535	Sewer	150	1964	8,528	\$	\$	\$	\$	\$	8,528
Oboron Township	SPRINGFIELD ST, Line No 102	Sewer	150	2001	19,582	\$	\$	\$	\$	\$	19,582
Oboron Township	SPRINGFIELD ST, Line No 537	Sewer	150	1964	16,424	\$	\$	\$	\$	\$	16,424
Oboron Township	SPRINGFIELD ST, Line No 538	Sewer	150	1964	19,266	\$	\$	\$	\$	\$	19,266
Oboron Township	SPRINGFIELD ST, Line No 539	Sewer	150	1964	18,319	\$	\$	\$	\$	\$	18,319
Oboron Township	SPRINGFIELD ST, Line No 544	Sewer	150	1964	22,109	\$	\$	\$	\$	\$	22,109
Oboron Township	SPRINGFIELD ST, Line No 545	Sewer	150	1964	17,055	\$	\$	\$	\$	\$	17,055
Oboron Township	STEVENSON CL, Line No 760	Sewer	150	2010	8,212	\$	\$	\$	\$	\$	8,212
Oboron Township	STEVENSON CL, Line No 761	Sewer	150	2010	5,685	\$	\$	\$	\$	\$	5,685

Table 1: Oboron Council Existing Sewerage Assets

Table 1: Oberon Council Existing Sewerage Assets

Service Area	Service Type	Asset Name	Asset Type	Capacity/Size	Year of Commissioning	Current Replacement Cost (2015/16 \$)	Assets excluding Reticulation	Assets excluding pre 1985	Oberon Township	East Oberon	Shared	Assets Excluded
Oberon Township	Sewer	STEVENSON CL, Line No 762	Reticulation	150	2010	18,634						18,634
Oberon Township	Sewer	STEVENSON CL, Line No 763	Reticulation	150	2010	7,896						7,896
Oberon Township	Sewer	STEVENSON CL, Line No 767	Reticulation	150	2010	6,001						6,001
Oberon Township	Sewer	STEVENSON CL, Line No 768	Reticulation	150	2010	3,474						3,474
Oberon Township	Sewer	STEVENSON CL, Line No 769	Reticulation	150	2010	7,896						7,896
Oberon Township	Sewer	STEVENSON CL, Line No 770	Reticulation	150	2010	7,264						7,264
Oberon Township	Sewer	STEVENSON CL, Line No 306	Reticulation	150	1988	18,319						18,319
Oberon Township	Sewer	STRATHROY AVE, Line No 307	Reticulation	150	1988	6,001						6,001
Oberon Township	Sewer	STRATHROY AVE, Line No 308	Reticulation	150	1988	18,950						18,950
Oberon Township	Sewer	STRATHROY AVE, Line No 329	Reticulation	150	1998	12,949						12,949
Oberon Township	Sewer	STRATHROY AVE, Line No 334	Reticulation	150	1988	13,581						13,581
Oberon Township	Sewer	STRATHROY AVE, Line No 451	Reticulation	150	1978	5,369						5,369
Oberon Township	Sewer	STRATHROY AVE, Line No 452	Reticulation	150	1978	17,687						17,687
Oberon Township	Sewer	STRATHROY AVE, Line No 453	Reticulation	150	1978	19,582						19,582
Oberon Township	Sewer	STRATHROY AVE, Line No 454	Reticulation	150	1978	14,528						14,528
Oberon Township	Sewer	TALLYS LN, Line No 242	Reticulation	150	1964	12,633						12,633
Oberon Township	Sewer	TALLYS LN, Line No 243	Reticulation	150	1964	26,530						26,530
Oberon Township	Sewer	TALLYS LN, Line No 244	Reticulation	150	1964	26,214						26,214
Oberon Township	Sewer	TALLYS LN, Line No 250	Reticulation	150	1964	21,161						21,161
Oberon Township	Sewer	TALLYS LN, Line No 251	Reticulation	150	1964	25,583						25,583
Oberon Township	Sewer	TALLYS LN, Line No 252	Reticulation	150	1964	24,951						24,951
Oberon Township	Sewer	TALLYS LN, Line No 253	Reticulation	150	1964	9,791						9,791
Oberon Township	Sewer	TALLYS LN, Line No 299	Reticulation	150	1964	9,159						9,159
Oberon Township	Sewer	TALLYS LN, Line No 461	Reticulation	150	1964	12,002						12,002
Oberon Township	Sewer	TALLYS LN, Line No 691	Gravity Main	225	1964	32,942						32,942
Oberon Township	Sewer	TALLYS LN, Line No 692	Gravity Main	225	1964	33,354						33,354
Oberon Township	Sewer	TALLYS LN, Line No 693	Gravity Main	225	1964	31,707						31,707
Oberon Township	Sewer	TALLYS LN, Line No 694	Gravity Main	225	1964	33,765						33,765
Oberon Township	Sewer	TALLYS LN, Line No 695	Gravity Main	225	1964	11,941						11,941
Oberon Township	Sewer	TARANA CR, Line No 200	Reticulation	150	2009	13,265						13,265
Oberon Township	Sewer	TARANA CR, Line No 201	Reticulation	150	1964	10,738						10,738
Oberon Township	Sewer	TARANA CR, Line No 237	Reticulation	150	1979	14,844						14,844
Oberon Township	Sewer	TARANA CR, Line No 238	Reticulation	150	1979	11,370						11,370
Oberon Township	Sewer	TARANA CR, Line No 326	Reticulation	150	1988	25,267						25,267
Oberon Township	Sewer	TARANA CR, Line No 327	Reticulation	150	1988	9,791						9,791
Oberon Township	Sewer	TARANA CR, Line No 576	Reticulation	150	1996	16,424						16,424
Oberon Township	Sewer	TARANA CR, Line No 577	Reticulation	150	1996	6,317						6,317
Oberon Township	Sewer	TARANA CR, Line No 578	Reticulation	150	1996	6,001						6,001
Oberon Township	Sewer	TARANA CR, Line No 579	Reticulation	150	1996	12,318						12,318
Oberon Township	Sewer	TARANA CR, Line No 580	Reticulation	150	1996	8,528						8,528
Oberon Township	Sewer	TARANA RD, Line No 194	Reticulation	150	2009	26,214						26,214
Oberon Township	Sewer	TARANA RD, Line No 195	Reticulation	150	2009	26,530						26,530
Oberon Township	Sewer	TARANA RD, Line No 196	Reticulation	150	2009	16,108						16,108
Oberon Township	Sewer	TARANA RD, Line No 197	Reticulation	150	2009	15,160						15,160
Oberon Township	Sewer	TARANA RD, Line No 198	Reticulation	150	2009	18,950						18,950
Oberon Township	Sewer	TARANA RD, Line No 199	Reticulation	150	2009	20,214						20,214
Oberon Township	Sewer	TARANA RD, Line No 324	Reticulation	150	1988	6,317						6,317
Oberon Township	Sewer	TARANA RD, Line No 325	Reticulation	150	1988	9,159						9,159
Oberon Township	Sewer	TARANA RD, Line No 328	Reticulation	150	1988	11,686						11,686
Oberon Township	Sewer	TASMAN ST, Line No 181	Reticulation	150	1964	13,897						13,897
Oberon Township	Sewer	TASMAN ST, Line No 182	Reticulation	150	1964	16,108						16,108
Oberon Township	Sewer	TASMAN ST, Line No 183	Reticulation	150	1964	18,003						18,003
Oberon Township	Sewer	TASMAN ST, Line No 346	Reticulation	150	1995	6,317						6,317
Oberon Township	Sewer	TASMAN ST, Line No 347	Reticulation	150	1995	6,317						6,317
Oberon Township	Sewer	TASMAN ST, Line No 374	Reticulation	150	1995	5,053						5,053
Oberon Township	Sewer	TASMAN ST, Line No 375	Reticulation	150	1995	11,054						11,054
Oberon Township	Sewer	TASMAN ST, Line No 376	Reticulation	150	1995	22,109						22,109

Service Area	Asset Name	Asset Type	Capacity/Size	Year of Commissioning	Current Replacement Cost (2015/16 \$)	Assets excluding Reticulation	Assets excluding pre 1985	Oboron Township	East Oboron	Shared	Assets Excluded
Oboron Township	TASMAN ST, Line No 377	Sewer	150	1995	24,319						24,319
Oboron Township	TASMAN ST, Line No 382	Sewer	150	1995	9,159						9,159
Oboron Township	TASMAN ST, Line No 439	Sewer	150	1964	7,896						7,896
Oboron Township	TASMAN ST, Line No 440	Sewer	150	1964	4,422						4,422
Oboron Township	TASMAN ST, Line No 616	Sewer	150	2005	19,898						19,898
Oboron Township	TASMAN ST, Line No 677	Sewer	300	1964	17,010						17,010
Oboron Township	TASMAN ST, Line No 678	Sewer	300	1964	23,247						23,247
Oboron Township	TASMAN ST, Line No 679	Sewer	300	1964	27,783						27,783
Oboron Township	TASMAN ST, Line No 680	Sewer	300	1964	49,329						49,329
Oboron Township	TASMAN ST, Line No 681	Sewer	300	1964	34,587						34,587
Oboron Township	TASMAN ST, Line No 735	Sewer	225	1982	30,883						30,883
Oboron Township	TASMAN ST, Line No 736	Sewer	225	1982	42,413						42,413
Oboron Township	TASMAN ST, Line No 737	Sewer	225	1982	20,177						20,177
Oboron Township	TASMAN ST, Line No 738	Sewer	225	1982	42,001						42,001
Oboron Township	TASMAN ST, Line No 756	Sewer	150	2010	4,106						4,106
Oboron Township	TASMAN ST, Line No 757	Sewer	150	2010	11,054						11,054
Oboron Township	TASMAN ST, Line No 758	Sewer	150	2010	8,843						8,843
Oboron Township	TASMAN ST, Line No 759	Sewer	150	2010	7,580						7,580
Oboron Township	THE COMMON Line No 377	Sewer	150	1964	16,108						16,108
Oboron Township	THE COMMON Line No 40	Sewer	150	1964	18,950						18,950
Oboron Township	THE COMMON Line No 771	Sewer	150	2010	13,581						13,581
Oboron Township	THE COMMON Line No 772	Sewer	150	2010	12,318						12,318
Oboron Township	THE COMMON Line No 773	Sewer	150	2010	7,896						7,896
Oboron Township	TOOHILLS LN, Line No 267	Sewer	150	1988	24,004						24,004
Oboron Township	TOOHILLS LN, Line No 268	Sewer	150	1964	25,583						25,583
Oboron Township	TOOHILLS LN, Line No 269	Sewer	150	1964	25,267						25,267
Oboron Township	TOOHILLS LN, Line No 270	Sewer	150	1992	14,844						14,844
Oboron Township	TOOHILLS LN, Line No 271	Sewer	150	1964	11,054						11,054
Oboron Township	TOOHILLS LN, Line No 272	Sewer	150	1964	18,003						18,003
Oboron Township	TOOHILLS LN, Line No 491	Sewer	150	1964	7,264						7,264
Oboron Township	WATER TREATMENT PLANT LN, Line No 477	Sewer	150	1996	15,792						15,792
Oboron Township	WATER TREATMENT PLANT LN, Line No 478	Sewer	150	1996	16,739						16,739
Oboron Township	WHITELEY LN, Line No 41	Sewer	150	1964	25,583						25,583
Oboron Township	WHITELEY LN, Line No 42	Sewer	150	1964	26,214						26,214
Oboron Township	WHITELEY LN, Line No 78	Sewer	150	1964	25,583						25,583
Oboron Township	WHITELEY LN, Line No 81	Sewer	150	1964	8,843						8,843
Oboron Township	WHITELEY LN, Line No 89	Sewer	150	1964	13,897						13,897
Oboron Township	WHITELEY LN, Line No 82	Sewer	150	1964	24,951						24,951
Oboron Township	WHITTAKERS LN, Line No 118	Sewer	150	1964	26,530						26,530
Oboron Township	WHITTAKERS LN, Line No 120	Sewer	150	1964	17,687						17,687
Oboron Township	WHITTAKERS LN, Line No 121	Sewer	150	1964	27,478						27,478
Oboron Township	WHITTAKERS LN, Line No 122	Sewer	150	1964	21,793						21,793
Oboron Township	WHITTAKERS LN, Line No 45	Sewer	150	1964	25,267						25,267
Oboron Township	WHITTAKERS LN, Line No 46	Sewer	150	1964	9,475						9,475
Oboron Township	WHITTAKERS LN, Line No 550	Sewer	150	1964	19,582						19,582
Oboron Township	WHITTAKERS LN, Line No 555	Sewer	150	1970	6,001						6,001
Oboron Township	WHITTAKERS LN, Line No 556	Sewer	150	1970	5,665						5,665
Oboron Township	WHITTAKERS LN, Line No 560	Sewer	150	2006	6,528						6,528
Oboron Township	WHITTAKERS LN, Line No 561	Sewer	150	2006	9,159						9,159
Oboron Township	WHITTAKERS LN, Line No 71	Sewer	150	1964	20,845						20,845
Oboron Township	WHITTAKERS LN, Line No 72	Sewer	150	1964	25,899						25,899
Oboron Township	Fairfax - Telmerty	Sewer	2500EP	1984	7,276						7,276
Oboron Township	Oboron WWTW	Sewer	2500EP	1964	260,053						260,053
Oboron Township	Oboron WWTW	Sewer	2500EP	1964	1,300,267						1,300,267
Oboron Township	Oboron WWTW	Sewer	2500EP	1964	1,040,213						1,040,213
Oboron Township	Non-mechanical	Sewer	2500EP	1964	103,482						103,482
Oboron Township	Sewer Mains	Sewer	75	2005	266,790						266,790
Oboron Township	Sewer Mains	Sewer	75	1988	55,622						55,622
Oboron Township	Sewer Mains	Sewer	75	2006	69,527						69,527
Oboron Township	Sewer Mains	Sewer	75	2006	69,527						69,527
Oboron Township	Rising mains	Sewer	75	1964	40,326						40,326

Table 1: Oboron Council Existing Sewerage Assets

Service Area	Service Type	Asset Name	Asset Type	Capacity/Size	Year of Commissioning	Current Replacement Cost (2015/16 \$)	Assets excluding Reticulation	Assets excluding pre 1985	Oberon Township	East Oberon	Shared	Assets Excluded
Oberon Township	Sewer	Oberon WWTW	Mechanical	2500EP	1964	\$ 266,790	\$ 266,790	\$ -	\$ -	\$ -	\$ -	\$ 266,790
Oberon Township	Sewer	Bounty - PUMPING STATION	Mechanical/Electrical	10 L/s	2006	\$ 161,691	\$ 161,691	\$ 161,691	\$ 161,691	\$ -	\$ -	\$ -
Oberon Township	Sewer	Bounty - PUMPING STATION	Structural	10 L/s	2006	\$ 161,691	\$ 161,691	\$ 161,691	\$ 161,691	\$ -	\$ -	\$ -
Oberon Township	Sewer	Duckmaboi - PUMPING STATION	Mechanical/Electrical	10 L/s	1984	\$ 161,691	\$ 161,691	\$ -	\$ -	\$ -	\$ -	\$ 161,691
Oberon Township	Sewer	Duckmaboi - PUMPING STATION	Structural	10 L/s	1984	\$ 161,691	\$ 161,691	\$ -	\$ -	\$ -	\$ -	\$ 161,691
Oberon Township	Sewer	Hawken - PUMPING STATION	Mechanical/Electrical	10 L/s	2007	\$ 161,691	\$ 161,691	\$ 161,691	\$ 161,691	\$ -	\$ -	\$ -
Oberon Township	Sewer	Hawken - PUMPING STATION	Structural	10 L/s	2008	\$ 161,691	\$ 161,691	\$ 161,691	\$ 161,691	\$ -	\$ -	\$ -
Oberon Township	Sewer	Fairfax - PUMPING STATION -AERATOR	Mechanical/Electrical	10 L/s	1964	\$ 19,039	\$ 19,039	\$ -	\$ -	\$ -	\$ -	\$ 19,039
Oberon Township	Sewer	Fairfax - PUMPING STATION -AERATOR pump house	Structural	130 L/s	1964	\$ 97,734	\$ 97,734	\$ -	\$ -	\$ -	\$ -	\$ 97,734
Oberon Township	Sewer	Fairfax - PUMPING STATION -Pump Well	Structural	130 L/s	1964	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Oberon Township	Sewer	Fairfax - PUMPING STATION -Pumps x 2	Mechanical/Electrical	130 L/s	1987	\$ 312,242	\$ 312,242	\$ 312,242	\$ 312,242	\$ -	\$ -	\$ -
Oberon Township	Sewer	Fairfax - PUMPING STATION-N-Switch Room	Mechanical/Electrical	130 L/s	1964	\$ 49,502	\$ 49,502	\$ -	\$ -	\$ -	\$ -	\$ 49,502
Oberon Township						\$ 17,997,194	\$ 7,652,908	\$ 1,350,946	\$ 1,350,946	\$ -	\$ -	\$ 16,646,248

2016 DSP Background Document for Sewerage

Sewered	New ETS	PV of new ETS	PV of new ETS (@3%)	ET per year new ETS	ET Charge per Capital
					ET (2015/16\$)

Year of Commissioning	Effective Year of Commissioning	Capital Cost of existing assets (\$'000)	Capital Cost for renewals only (\$'000)	Capital Cost of new assets only (\$'000)	Capital Cost of backlog assets only (\$'000)	Percentage of capital works utilized by new ETS after 1995/96	Value of Assets utilized by new ETS	Rate of Return (%)	PV Factor	PV of capital costs (2015/16\$)
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1985	1986	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
1986	1986	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
1987	1986	\$312,242	\$55,622	\$13,584	\$76,256	3%	\$76,256	3%	1.00	\$76,256
1988	1986	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
1989	1986	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
1990	1986	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
1991	1986	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
1992	1986	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
1993	1986	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
1994	1986	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
Subtotal (Assets pre-1996)		\$ 367,864		\$89,841						\$ 89,841
1995	1986	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
1996	1986	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
1996	1986	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
1996	1986	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
1997	1986	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
1998	1986	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
1999	1986	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
2000	2000	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
2001	2000	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
2002	2002	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
2003	2003	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
2004	2004	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
2005	2005	\$266,790	\$65,156	\$40,000	\$65,156	3%	\$40,000	3%	1.00	\$40,000
2006	2006	\$292,910	\$96,957	\$56,104	\$96,957	3%	\$56,104	3%	1.00	\$56,104
2007	2007	\$161,691	\$39,489	\$21,989	\$39,489	3%	\$21,989	3%	1.00	\$21,989
2008	2008	\$161,691	\$39,489	\$20,942	\$39,489	3%	\$20,942	3%	1.00	\$20,942
2009	2009	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
2010	2010	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
2011	2010	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
2012	2011	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
2013	2012	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
2014	2013	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
2014	2014	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
Future		\$ 983,082		\$ 240,091						\$ 139,035
2015	2015	\$64,487	\$15,749	\$5,936	\$15,749	3%	\$5,936	3%	1.00	\$5,936
2016	2016	\$89,000	\$22,863	\$8,584	\$22,863	3%	\$8,584	3%	1.00	\$8,584
2017	2017	\$462,158	\$601,314	\$205,559	\$601,314	3%	\$205,559	3%	1.00	\$205,559
2018	2018	\$18,226	\$847,018	\$275,765	\$847,018	3%	\$275,765	3%	1.00	\$275,765
2019	2019	\$18,226	\$1,005,763	\$311,855	\$1,005,763	3%	\$311,855	3%	1.00	\$311,855
2020	2020	\$18,226	\$68,926	\$20,354	\$68,926	3%	\$20,354	3%	1.00	\$20,354
2021	2021	\$347,156	\$124,836	\$35,109	\$124,836	3%	\$35,109	3%	1.00	\$35,109
2022	2022	\$303,090	\$74,021	\$19,826	\$74,021	3%	\$19,826	3%	1.00	\$19,826
2023	2023	\$21,496	\$5,250	\$1,339	\$5,250	3%	\$1,339	3%	1.00	\$1,339
2024	2024	\$10,748	\$2,625	\$638	\$2,625	3%	\$638	3%	1.00	\$638
2025	2025	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
2026	2026	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
2027	2027	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
2028	2028	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
2029	2029	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
2030	2030	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
2031	2031	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
2032	2032	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
2033	2033	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
2034	2034	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
2035	2035	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0
2036	2036	\$0	\$0	\$0	\$0	3%	\$0	3%	1.00	\$0

12	4	1504								
12	4	1492								
12	4	1480								
12	4	1468								
12	4	1456								
12	4	1444								
12	4	1432								
12	4	1420								
12	4	1408								
12	5	1396								
12	5	1384								
12	5	1372								
11	5	1360								
11	5	1349								
11	5	1338								
11	5	1327								
11	5	1316								
11	5	1305								
11	6	1294								
11	6	1283								
11	6	1272								
11	6	1261								

Table 3: Oberon Council Sewerage Capital Charges Calculations

Oberon Township

Table 4: Oberon Council Sewerage Developer Charge Calculations

Sewerage Service Area	Capital Charge per ET (2015/16\$)	Agglomeration	DSP Area	Reduction Amount (\$/ET)	Developer Charge (\$/ET) (2015/16\$)	Council adopted Developer Charge (\$/ET) 2015/16	Developer Charge (\$/ET) 2016/17	Proposed Developer Charge (\$/ET) 2017/18
East Oberon	\$ -	#DIV/0!	SDSP1					
Oberon Township	\$ 11,984	#DIV/0!	SDSP2	\$ 1,507	\$ 10,477		\$ 10,582	\$ 10,688

Table 5: Oberon Council Sewerage Reduction Amount Calculation

2014/15	2015/16	2016/17	2017/18
Annual Sewerage Bill per ET	\$ 526	\$ 398	\$ 128
Annual Sewerage OMA Cost per ET			
Net Income per ET			

5.0%

Year	Total ETS	New ETS	PV Factor	PV of new Ets	Cumulative new ETS	Net income from new ETS	PV of Net income from new ETS	Reduction Amount (\$/ET)
2014/15	1,250							
2015/16	1,261	1,272	1.00	11	11	\$1,408	\$1,408	\$1,408
2016/17	1,272	1,283	0.95	10	22	\$2,816	\$2,816	\$2,882
2017/18	1,283	1,295	0.86	10	45	\$5,760	\$5,760	\$4,976
2018/19	1,295	1,307	0.82	10	57	\$7,296	\$7,296	\$6,002
2020/21	1,319	1,319	0.78	9	69	\$8,832	\$8,832	\$6,920
2021/22	1,331	1,331	0.75	9	81	\$10,368	\$10,368	\$7,737
2022/23	1,343	1,343	0.71	9	93	\$11,904	\$11,904	\$8,460
2023/24	1,355	1,355	0.68	8	105	\$13,440	\$13,440	\$9,097
2024/25	1,367	1,367	0.64	8	117	\$14,976	\$14,976	\$9,654
2025/26	1,380	1,380	0.61	8	130	\$16,640	\$16,640	\$10,216
2026/27	1,393	1,393	0.58	8	143	\$18,304	\$18,304	\$10,702
2027/28	1,406	1,406	0.56	7	156	\$19,968	\$19,968	\$11,119
2028/29	1,419	1,419	0.53	7	169	\$21,632	\$21,632	\$11,472
2029/30	1,432	1,432	0.51	7	182	\$23,296	\$23,296	\$11,766
2030/31	1,445	1,445	0.48	6	196	\$24,960	\$24,960	\$12,006
2031/32	1,458	1,458	0.46	6	208	\$26,624	\$26,624	\$12,197
2032/33	1,471	1,471	0.44	6	221	\$28,288	\$28,288	\$12,342
2033/34	1,484	1,484	0.42	5	234	\$29,952	\$29,952	\$12,446
2034/35	1,497	1,497	0.40	5	247	\$31,616	\$31,616	\$12,512
2035/36	1,510	1,510	0.38	5	260	\$33,280	\$33,280	\$12,543
2036/37	1,523	1,523	0.36	5	273	\$34,944	\$34,944	\$12,543
2037/38	1,536	1,536	0.34	4	286	\$36,608	\$36,608	\$12,514
2038/39	1,549	1,549	0.33	4	299	\$38,272	\$38,272	\$12,460
2039/40	1,562	1,562	0.31	4	312	\$39,936	\$39,936	\$12,383
2040/41	1,575	1,575	0.30	4	325	\$41,600	\$41,600	\$12,285
2041/42	1,588	1,588	0.28	4	338	\$43,264	\$43,264	\$12,168
2042/43	1,601	1,601	0.27	3	351	\$44,928	\$44,928	\$12,034
2043/44	1,614	1,614	0.26	3	364	\$46,592	\$46,592	\$11,885
2044/45	1,628	1,628	0.24	3	378	\$48,384	\$48,384	\$11,755
					199		\$ 300,112	\$ 1,507



APPENDIX E

OUTLINE OF LEGISLATION

Local Government Act 1993

The power for local government councils to levy developer charges for water supply, sewerage and stormwater derives from section 64 of the Local Government Act 1993 by means of a cross-reference in that Act to the relevant provisions of the Water Management Act 2000.

Section 64 of the Local Government Act states that:

Division 5 of Part 2 of Chapter 6 of the Water Management Act 2000 applies to a council exercising function under this Division in the same way as it applies to a water supply authority exercising functions under that Act.

Environmental Planning and Assessment Act 1979

Prior to the introduction of the Local Government Act in 1993, councils used the provisions of section 94 of the Environmental Planning and Assessment Act 1979 to obtain developer contributions for water supply services. As part of the Local Government (Consequential Provisions) Act 1993, amendment was made to the Environmental Planning and Assessment Act so that section 94 no longer applied for water supply services.

However, Councils can levy developer charges for stormwater under either Local Government Act or Water Management Act.

Water Management Act 2000

Section 305 (1) of the Water Management Act states that:

(1) A person may apply to a water supply authority for a certificate of compliance for development carried out, or proposed to be carried out, within the water supply authority's area.

Section 306 (2) and (3) of the Water Management Act states that:

- (2) as a pre-condition to granting a certificate of compliance for development, a water supply authority may, by notice in writing served on the applicant, require the applicant to do either or both of the following:
- (a) to pay a specified amount to the Authority by way of contribution towards the cost of such water management works as are specified in the notice, being existing works or projected works, or both,
 - (b) To construct water management works to serve the development.
- (3) In calculating an amount for the purposes of subsection (2) (a):
- (a) the value of existing water management works and the estimated cost of projected water management works may be taken into consideration, and
 - (b) the amount of any government subsidy or similar payment is not to be deducted from the relevant value or cost of the water management works, and
 - (c) Consideration is to be given to any guidelines issued for the time being for the purposes of this section by the Minister.

In 2011, the Minister for Primary Industries became responsible for non-metropolitan NSW town water services. The Minister is responsible for the issue of guidelines for water utilities on the calculation of water supply, sewerage and stormwater developer charges.

Note: Use of moneys raised from developer charges is discussed in section 2.7 on page 10 of the guidelines.

Local Government (Savings and Transitional) Regulation 1993

The Local Government (Savings and Transitional) Regulation 1993 covers the matter of developer contributions which had previously been obtained by councils under the Environmental Planning and Assessment Act as follows:

(9) Any monetary contribution held by a council immediately before the commencement of this Regulation, being a contribution arising from a condition:

(a) that was imposed under section 94 of the *Environmental Planning and Assessment Act 1979*; and

(b) that specifies that the contribution is to be applied towards providing specified water or sewerage services or towards providing water or sewerage services generally,

Is to be applied towards the construction of works within the meaning of Division 2 of Part 3 of the *Water Supply Authorities Act 1987*, or towards the repayment of money borrowed for the construction of such works, and is not to be applied towards any other purpose.



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OBERON COUNCIL



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