## NORIH RED DEER RIVER WATER SERVIC ES COMMISSION <br> Regular Meeting <br> June 19, 2017 @ 8:30 AM <br> LACOMBE CITY HA山 <br> AGENDA

1. Call to Order
2. Adoption of Agenda
3. Adoption of Minutes
a. Ap ril 10, 2017 - Regular Meeting (attached)
4. Presentation
5. Reports
a. Operations (atta ched)
b. Administrator (atta ched)
i) Monthly Report
ii) Financial - May 2017
c. Chair
6. Correspondence
a. Alberta Indigenous Relations - First Nation Participation in Regional Wa ter System
7. Old Business
8. New Business
a. Bylaw 3.1 A bylaw to Amend Water Rate Bylaw \#3
b. SCADA Review RFP - Tender Award
9. In Camera
10. Next Meeting Date: September 25, 2017 (proposed)
11. Adjoumment

## NORTH RED DEER RIVER WATER SERVICES COMMISSION

 ANNUAL MEETING MINUTESApril 10, 2017

| In Attendance: | Mayor Steve Christie, City of Lacombe <br> Mayor Rick Bonnett, Town of Ponoka <br> Mayor Melodie Stol, Town of Blackfalds <br> Councillor Ken Wigmore, Lacombe County <br> Councillor Mark Matejka, Ponoka County <br> Michael Minchin, NRDRWSC Administrator <br> Jennifer Peterson, Administrator Assistant |
| :--- | :--- |
| Others Present: | Albert Flootman, CAO Town of Ponoka <br> Myron Thompson, CAO Town of Blackfalds |
| Tim Timmons, Manager of Comorate Services, La combe County <br> Chris Huston, UtilitiesManager, City of Lacombe <br> Jordan Thompson, Engineering Manager, City of Lacombe |  |
| Guests: | Dan Luymes, BDO Canada LP <br> Ryan Wachter, BDO Canada ■P |

## 1. Call to Order:

Chair Christie called the meeting to orderat 9:01 am.

## 2. Adoption of the Agenda:

"UnderAdoption of Minutes, correct the date to read - November 28, 2016"
MOVED by Mayor Bonnett that the agenda for April 10, 2017, be adopted as amended.

CARRIED

## 3. Adoption of the Minutes:

MOVED by Mayor Stol that the minutes for November 28, 2016, be adopted as presented.

CARRIED

## 4. Presentation

A. 2016 Audit Financial Statement

Mr. Wachter of BDO Canada ШP, reviewed the Auditor's Report of the 2016 Audited Financial Statements.

In summary:

- Reported a "clean audit"
- Noted the accumulated surplushas been allocated to Capital and Rate Stabilization reserves.
- Water saleswere less than budgeted.
- Expenseswere less than budgeted.

MOVED by Councillor Wigmore to accept the Audited Statements as presented.
CARRIED
At 9:09am Dan Luymes and Ryan Wachter of BDO Canada, left the meeting.
B. 2017 Appointment of Auditors

Mr. Minchin shared with the Commission that BDO prices have not changed for the past two years and that they were able to meet the demands of moving up the presentation date by two weeks. The Commission is entering into the fourth year of a 5 year contact. He recommended that the Commission continues with the service from BDO.

MOVED by Mayor Stol to appoint BDO Canada UP as the 2017 Auditors for the North Red Deer River Water Senvices Commission.

CARRIED

## 5. Reports

Mr. Huston disc ussed the recent operation activities.
In summary:

- The Alberta One-Call locate requests are on target.
- Operations responded to call outs regarding communication lost at Wolf Creek, Red Deer Treatment Plant and the main vault.
- Computer and software have been ordered to replace the monitoring computer at the Red Deer Treatment Plant.

Mr. Thompson discussed the recent engineering activities.
In summary:

- Due to the wastewater line construction, a number of crossing a greements were needed to be entered into with the North Red Deer Regional Wastewater Services Commission.
- The Wastewater Commission has asked for temporary workspace within the water's ea sement. It has been granted.
- The Town of Blackfalds is relocating an intersection and will be relocating a portion of a lateral waterline in that location. All costs will be covered by the Town of Blackfalds.
- A Request for Proposal (RFP) will be issued for a SCADA Assessment and Recommendations. Included in the RFP will be to ask for the best solution of communication between Operations', Red DeerTreatment Plants and the vaults.


## Administrator Report

Mr. Minchin presented the Administrator's report.
In summary:

- The Commission has received approval from the Minister of Municipal Affa irs for water salesto the City of Red Deer forfive years. The Agreement has been fully executed. Wa iting to commence water sales to Central Park of Red Deer.
- Lateral line within the Town of Blackfalds will be relocated. Blackfalds will be bearing the full cost.
- The Province hasprovided a checklist that the Commission will need to complete with regards to and request forsale of the line to Red Deer. A letter has been sent to Red Deer on what they will need to complete. The Commission will need to retum a portion of the grant back to the Province on the part of line that is sold to Red Deer. The amount to be retumed has not yet been finalized.

Mr. Minchin presented the financial report.

In summary:

- There is no true-up for 2016. The variance was only $3 \%$. True-up is not paid until a $10 \%$ variance is met.
- Water is tracking slower than last year. The summer months are normally where the balk of the water is sold.


## Chaiman's Report

The Chair has nothing to report at this time.
MOVED by Councillor Matejka to accept as information.
CARRIED

## 6. Correspondence/ Information

City of Red Deer letter - 2016 True-up per the Water Supply Agreement
A copy of the letter was provided to the Commission as information.

## Minister of Munic ipal Affairs - Ministerial Order MSL 003/17

A copy of the Order wasshared with the Commission.
MOVED by Councillor Wigmore to accept as information.
CARRIED

## 7. Old Business:

## 8. New Business:

## Alloc ation of 2016 Surplus

For the calendar year 2016, there was a surplus of $\$ 557,969$. The Commission received a True-up of $\$ 348,357$ for 2015 which is included in the sumplus a mount. Mr. Minchin recommended that the suplus and true-up be transferred to reserves as outlined.

MOVED by Councillor Wigmore that the Board approve the following transfers to reserve:

1. That an a mount equal to the a nnual a mortization for 2016 be allocated to the Capital Reserves; and
2. That an a mount equal to $\$ 37,590$ be transferred to the Operating Reserve; and
3. That $\$ 520,379$ be transferred to the Rate Stabilization Reserve

Further, that the Board direct Administration to update the 5 yearOperating Projections to incomorate the additional true up revenue.

CARRIED

## 2017-2021 Budget Projections

Mr. Minchin presented the final draft of the 2017-2021 Budget Projections update.
MOVED by Councillor Matejka to accept as information.
CARRIED

## 9. IN Camera

## 10. Next Meeting:

Monday, J une 19, 2017 at 8:30 am, City of La combe Council Chambers.

## 11.Adjoumment

MOVED by Mayor Bonnett to adjoum this Meeting at 9:35 am.
CARRIED

Chaiperson
Administrator

North Red Deer River Water Services Commission

5432 56 ${ }^{\text {th }}$ Avenue Lacombe, Alberta T4L 1E9

Phone: (403) 782-6666
Direct Line: (403) 782-1268
Fax: (403) 782-5655
jthompson@lacombe.ca

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M & E & M & O & R & A & N & D & U & M
\end{array}
$$

June $19^{\text {th }}, 2017$
Attn: NRDRWSC
Re: Operational Report since April $10^{\text {th }}, 2017$.

Since the last update provided to members of the Commission, the City of Lacombe has dealt with the following:

## GENERAL INFORMATION

> Alberta One-Call Locate Requests:

- April - 111 locates
- May - 200 locates

Alberta One-Call Locate Requests 2016 (total 1591) and 2017(


## Repair response charges:

> May 3 - Loss of signal at $39^{\text {th }}$ Ave, operators found UPS dead, changed batteries and reset modem. Restored communication.
> May 24 - Loss of signal at the main vault, operator reset modem and restored communication.
> Various calls from Urban Dirt Works and Red Deer regarding Central Park, to date the reservoir is not active. For the past few months they have been busy flushing the line to the reservoir. The Commissions water meter is installed at the site and is operational.

## Call-Out:

> May 24 - Red Deer Treatment Plant called operator at $4: 35 \mathrm{pm}$ - all sites have lost communication - big storm has rolled through central Alberta and knocked out most of the sites. Once storm has passed, see which sites start coming back online. All sites except Broadway and PH'B' are back online, reset modems at each site to restore communication.

## General Information:

> Completed the SCADA Assessment RFP (Attached) and recommend Commission to award Stantec the contract to proceed.
> NRDRWSC Operator proposal to purchase line locating equipment that would be able to locate tracer wire and ID marker balls for $\$ 7,485$ (attached information).

If you have any questions or comments regarding the operations described above please don't hesitate to call or email me.

Sincerely,


Jordan Thompson, CET, PMP
Engineering Services Manager


North Red Deer
Regional Water
Services
Commission

TO: Commission Board Members
FROM: Michael Minchin, Administrator
DATE: June 15, 2017
$543256^{\text {th }}$ Avenue Lacombe, Alberta T4L 1E9

RE: Administrator's Report - 2 $^{\text {nd }}$ Qtr 2017
REF: 47/117
(2017)

The following is a summary of items Administration has been working on since the Board's last meeting:

1. The Commission began delivering water to the City of Red Deer for the Central Park subdivision toward the end of April. Administration will be seeking the Board's approval of a 2017 water rate for the City later on in the agenda.
2. Administration received direction from the Province on the information necessary for the department to consider a request to sell a portion of the water line.
3. Administration is still trying to arrange a meeting with the City of Red Deer to determine the impact the sale of the line would have on rates charged to the Commission.
4. Financial statements and Financial Information Returns were filed with the Province.
5. The Commission completed the necessary crossing and proximity agreements for the North Red Deer Regional Wastewater Commission. Staff continue to supervise construction of the waste water line particularly the work located near the line east of Lacombe.


North Red Deer Regional Water Services Commission

## Memorandum

TO: Commission Board Members
FROM: Michael Minchin, Administrator
DATE: June 15, 2017

RE: May 2017 Variance Report

REF: 13/860 2017

Attached is the 2017 variance report as of May $31^{\text {st }}$ for the regional water commission.
Water sales are right on budget so far this year with peak summer months just beginning. Red Deer began accepting delivery of water in April but billing has not yet taken place.

Expenses remain in line with expectations. No extraordinary expenses have been incurred. As expected the largest purchase to date is the purchase of water from the City of Red Deer.

$\qquad$















| Year $:$ | 2017 |
| :--- | :--- |
| Period : | 5 |

Budget : FINAL BUDGET

| Account No. | Description | Current | Year To Date | Budget | Variance | \% Used |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| REGIONAL WATER REPORTING |  |  |  |  |  |  |
| 06-2-47-99000 | Amortization | 0 | 0 | 465,610 | 465,610 |  |
|  | 47 Regional Water Operating Ex | 379,329 | 1,628,249 | 5,889,421 | 4,261,172 | 28 |
|  | 2 EXPENSES | 379,329 | 1,628,249 | 5,889,421 | 4,261,172 | 28 |
|  | Surplus/(Deficit) | -154,281 | -625,945 | -70,579 | 555,366 | 887 |
|  | 6 REGIONAL WATER COMMISSION | -154,281 | -625,945 | -70,579 | 555,366 | 887 |
| REGIONAL | WATER REPORTING Total | -154,281 | -625,945 | -70,579 | 555,366 | 887 |

May 24, 2017

## Mr. Steve Christie

Chairperson
North Red Deer River Water Services Commission
5432-56 Avenue
Lacombe, Alberta
T4L 1E9
Dear Mr. Christie:
In Budget 2017, the Government of Alberta announced its commitment to working with First Nations, the federal government, municipalities, and water commissions to ensure First Nation communities have reliable access to clean and safe drinking water. As part of this work, I am pleased to inform you that the province is committing $\$ 100$ million over four years to support First Nations access to regional water systems.

This funding will be used to expand regional water system infrastructure to reserve boundaries and link in to federally-funded water distribution infrastructure on reserve. The initiative is voluntary and opportunity driven. Eligible projects will be funded based on community need, location of regional water systems in proximity to First Nation communities and federal investment in corresponding infrastructure on reserve. To learn more about this initiative, I have attached a one page summary of the program for your information.

This initiative represents an important step towards Alberta's commitment to ensure First Nation communities have reliable access to clean and safe drinking water. The Ministry of Indigenous Relations will serve as the lead for this initiative, while the Ministry of Transportation will act as the project manager, ensuring the scope of the action agreed to through engagement is operationalized.

If you have any questions regarding the regional system tie-in initiative, please contact my department's project lead, Darlene Bouvier at 780-427-0363 or darlene.bouvier@gov.ab.ca.


Richard Feehan
Minister of Indigenous Relations

## Attachment

## First Nations Participation in Regional Water Systems

$\$ 100$ million in new funding over four years to support integration of regional drinking water systems with federallysupported water systems on reserve.

## OVERVIEW

The Government of Alberta will collaborate with First Nations and the Government of Canada to increase First Nations participation in regional water systems; where practical and feasible.

By increasing First Nations access to regional water systems, the Government of Alberta will help to ensure that First Nation communities in Alberta have reliable access to clean and safe drinking water.

## WHAT PROJECTS ARE ELIGIBLE?

Where a First Nation has agreed to tie-in to a regional water system, Alberta will fund the construction of water pipeline infrastructure between a regional system hub and a reserve border.

HOW ARE PROJECTS SELECTED?
The initiative is opportunity-driven, rather than application based.

The Government of Alberta will work with First Nations, the Government of Canada and water commissions to identify and support opportunities for First Nations to access regional water systems.

Eligible projects will be funded based on the following considerations:

1. Community need
2. Location of regional water systems in proximity to First Nation communities
3. Federal investment in corresponding infrastructure on reserve

For more information contact Darlene Bouvier
780-427-0363
darlene.bouvier@gov.ab.ca

North Red Deer
Regional Water
Services Commission
$543256^{\text {th }}$ Avenue Lacombe, Alberta T4L 1E9

TO: Commission Board Members
FROM: Michael Minchin, Administrator
DATE: June 16, 2017

RE: Commission Bylaw \#3.1 - Water Rate
REF: 47/200
(17)

## Purpose

To present for the Board's consideration Bylaw \#3.1, a bylaw to amend the Commission's Water Rate Bylaw \#3.

## Background

In April of this year, the City of Red Deer began to receive delivery of water from the Commission for its Central Park Subdivision. This delivery of services necessitates a change to the Commission's Water Rate Bylaw to establish a rate for the City of Red Deer. As a non-member customer, the rate established for the City differs from the member rate in that it is based on standards established by the Alberta Utilities Commission and American Water and Wastewater Association. The member rate is based on a cash model.

Issue Analysis
Section of 602.07(1)(b) of the Act states that a Commission shall pass a bylaw governing the fees to be charged by the commission for services provided to its customers or any class of customers.

The Commission's Bylaw \#1 establishes the administration of the Commission, including how the annual rate is to be established. Bylaw \#1 does not actually establish the rate itself. Bylaw 3 established the rate for members beginning in 2016.

Bylaw 3.1 would amend the original Bylaw 3 to incorporate a separate rate for nonmember customers. Bylaw 3.1 also changes the name of Bylaw 3 to simply refer to the Bylaw as the Commission Water Rate Bylaw.

Under Bylaw 3.1, the rate to be charged by the Commission to the City of Red Deer would be $\$ 1.899$ per cubic meter which is slightly below the Commission's rate for members. The difference is due to the methodology used in the calculation of rates.

A copy of the rate calculation is included in this presentation.

Unlike a municipal council, the Board may pass a bylaw in one meeting by simple majority vote.

## Financial Implications

Based on the 2017 budget, water sales from the City for Red Deer would be approximately $\$ 40,000$. Water volumes to date suggest that the final numbers for the year could be higher.

## Attachment

1. Bylaw 3.1 - A Bylaw to Amend Commission Bylaw 3
2. Working Copy of Updated Commission Bylaw 3
3. 2017 Rate Calculation for Non-Member Customers

## Recommendation

Administration is recommending that the Commission give all three readings to Bylaw 3.1 at its June 19, 2017 meeting.

# NORTH RED DEER RIVER WATER SERVICES COMMISSION 

## BYLAW 3.1

## BEING A BY-LAW OF THE BOARD OF DIRECTORS OF THE NORTH RED DEER RIVER WATER SERVICES COMMISSION TO AMEND COMMISSION BYLAW 3, THE 2016 WATER RATE BYLAW

WHEREAS the North Red Deer Water Services Commission has been established by the Lieutenant Governor in Council under Alberta Regulation 105/2004 made pursuant to Part 15.1 of the Municipal Government Act, RSA 2000, c. M-26; and

WHEREAS the Board of Directors of the North Red Deer Water Services Commission has been duly appointed pursuant to section 602.04(3)(b) of the said Act and the Board of Directors now wishes to make a Bylaw pursuant to section 602.07(1)(b) of the said Act establishing the per unit rate to be charged for the sale of water to its member municipalities and customers;

WHEREAS the Board of Directors of the North Red Deer Water Services Commission approved Commission Bylaw 3 in 2016 to establish an annual utility rate and the Board wishes to amend this Bylaw to incorporate a separate annual utility rate for non-member customers:

NOW THEREFORE the Board enacts the following:

1. Commission Bylaw 3 is hereby amended in the following manner:
a. Section 2 is deleted in its entirety and replaced with the following:
"2. This bylaw may be referred to as the "Commission Water Rate Bylaw."
b. Section 3.1 is added immediately after clause:
"3.1 The rate to be charged for the sale of potable water to customers by the Commission is hereby set at $\$ 1.899$ per cubic meter of measured water effective for water delivered to customers in 2017 and beyond."
c. Section 4 is amended by adding the words "and Customer" immediately after the words "Municipal Members" and "each member."
d. Section 5 is amended by adding the words "and customers" immediately after the words "members".
e. Section 6 is deleted in its entirety and replaced with the following:
"6. This Bylaw shall come into force on final adoption by the Commission Board."

Read a first time day of
Read a second time this day of
Read a third time and adopted this day of

CHAIR

MANAGER

# NORTH RED DEER RIVER WATER SERVICES COMMISSION 

BYLAW 3<br>CONSOLIDATED VERSION

## BEING A BY-LAW OF THE BOARD OF DIRECTORS OF THE NORTH RED DEER RIVER WATER SERVICES COMMISSION TO ESTABLISH THE ANNUAL WATER CHARGE FOR MEMBER MUNICIPALITIES AND CUSTOMERS

WHEREAS the North Red Deer Water Services Commission has been established by the Lieutenant Governor in Council under Alberta Regulation 105/2004 made pursuant to Part 15.1 of the Municipal Government Act, RSA 2000, c. M-26; and

WHEREAS the Board of Directors of the North Red Deer Water Services Commission has been duly appointed pursuant to section 602.04(3)(b) of the said Act and the Board of Directors now wishes to make a Bylaw pursuant to section 602.07(1)(b) of the said Act establishing the per unit rate to be charged for the sale of water to its member municipalities and customers;

NOW THEREFORE the Board enacts the following:
1 Definitions
a. "Board" means the Board of Directors of the Commission;
b. "Commission" means the North Red Deer River Water Services Commission;
c. "Customer" means a person, corporation or municipality who the Commission provide water services to and who is not a Member; and
d. "Member(s)" means those members set out in the Regulation
$z$ This bylaw may be referred to as the "2016 Water Rate Bylaw."
2. This bylaw may be referred to as the "Commission Water Rate Bylaw."

3 The rate to be charged for the sale of potable water to members by the Commission is hereby set at $\$ 2.03$ per cubic meter of measured water.
3.1 The rate to be charged for the sale of potable water to customers by the Commission is hereby set at $\$ 1.899$ per cubic meter of measured water effective for water delivered to customers in 2017 and beyond.

4 Municipal Member and Customer consumption shall be measured on a monthly basis by the Commission and the Commission shall invoice each member and customer for consumption times the rate established by this Bylaw.

5 Payment by the members and customers shall be due within 30 days from date of the invoice provided by the Commission.

6 This bylaw shall come into force on January 1, 2016.
6. This Bylaw shall come into force on final adoption by the Commission Board.

Read a first time this 7 day of December, 2015
Read a second time this 7 day of December, 2015
Read a third time and adopted this 7 day of December, 2015

# North Red Deer River Water Services Commission 



FINAL
City of Red Deer Water Rate Report
for 2017

Prepared by Michael Minchin
June 16, 2017

|  | 2017 <br> System | 2017 <br> City of Red | 2017 <br> City of Red <br> Veer Rev Req. |
| :---: | :---: | :---: | :---: |

1. Water Volume Requirements
a) Regional Water (Annual Sales)
b) City of Red Deer (Projected Sales)
c) Gross Volume Sales

$$
\begin{array}{r}
2,748,605 \\
20,000 \\
\hline 2,768,605
\end{array}
$$

2. Net Cash Operating Expenses (Schedule "A")
a) Administration
b) Water Treatment (Commission)
c) Water Treatment (City) - Additional
d) Water Transmission
d) Subtotal
3. Non-Cash Expenses (Schedule "B")
a) Amortization - Capital Assets
b) Amortization - No Cost Capital Contribution
c) Subtotal

| 84,284 | 0.030 | 608.86 |
| ---: | :---: | ---: |
| $3,863,404$ | - | - |
| 27,909 | 1.395 | $27,908.67$ |
| 201,222 | 0.073 | $1,453.60$ |
| $4,176,819$ | 1.499 | $29,971.12$ |
|  |  |  |
| 465,610 |  |  |
| $(231,891)$ | 0.168 | $3,363.50$ |
| 233,720 | $0.084)$ | $(1,675.14)$ |
|  |  | $1,688.36$ |

4. Return (Schedule "B")
a) Return-Capital Assets
b) Subtotal
5. Other Revenue (Schedule "B")
a) Interest and Other Non-member revenue
b) Subtotal
6. Subtotal Revenue Requirements

| 920,588 | 0.333 | 6,650.19 |
| :---: | :---: | :---: |
| 920,588 | 0.333 | 6,650.19 |
| $(44,541)$ | (0.016) | (321.76) |
| $(44,541)$ | (0.016) | (321.76) |
|  | 1.899 | 37,987.92 |

Schedule "A" Cash Non Cash Operating Expenses

| ACCOUNT | GL | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CODE | DESCRIPTION | ACTUAL | ACTUAL | ACTUAL | ACTUAL | ACTUAL | ACTUAL | ACTUAL | ACTUAL | ACTUAL | ACTUAL | BUDGET |


| ADMINSTRATIO |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 06-2-47-11100 | Wages | 57,996 | - | - | - | - | - | - | - | - | - | - |
| 06-2-47-11110 | Board Wages-City of Lacombe | 2,775 | 2,050 | 1,300 | 1,850 | 2,100 | 1,750 | 1,750 | 1,400 | 1,400 | 1,750 | 1,400 |
| 06-2-47-11120 | Board Wages-Town of Ponoka | 1,000 | 775 | 750 | 900 | 900 | 750 | 750 | 600 | 600 | 750 | 600 |
| 06-2-47-11130 | Board Wages-Town of Blackfalds | 875 | 750 | 600 | 900 | 900 | 750 | 750 | 600 | 600 | 750 | 600 |
| 06-2-47-11140 | Board Wages-Lacombe County | 625 | 750 | 750 | 750 | 600 | - | - | - | - | - | 600 |
| 06-2-47-11150 | Board Wages-Ponoka County | 250 | 500 | 600 | 750 | 300 | 450 | 300 | 600 | 300 | 750 | 600 |
| 06-2-47-13000 | Payroll Benefits | - | 362 | 341 | 109 | - | - | - | - | - | - | - |
| 06-2-47-21100 | Board Travel | 140 | - | - | - | - | - | - | - | - | - | - |
| 06-2-47-21110 | Board Travel-City of Lacombe | - | - | - | - | - | - | - | - | - | - | - |
| 06-2-47-21120 | Board Travel -Town of Ponoka | 179 | 215 | 156 | 188 | 193 | 162 | 126 | 111 | 109 | 143 | 250 |
| 06-2-47-21130 | Board Travel-Town of Blackfalds | 98 | 86 | 58 | 87 | 75 | 45 | 74 | 59 | 59 | 74 | 250 |
| 06-2-47-21140 | Board Travel-Lacombe County | 245 | 302 | 250 | 252 | 69 | - | - | - | - | - | 250 |
| 06-2-47-21150 | Board Travel-Ponoka County | 104 | 214 | 209 | 226 | 109 | 164 | 59 | 59 | 30 | 89 | 250 |
| 06-2-47-21170 | Travel - Administration | 3,359 | 2,820 | 2,765 | 1,430 | - | - | - | 205 | 100 | 11 | - |
| 06-2-47-21400 | Membership Fees | 90 | 90 | 90 | 90 | 93 | 195 | 195 | 195 | 196 | 377 | 300 |
| 06-2-47-21500 | Postage \& Freight | 27 | 131 | - | - | - | 44 | - | 50 | - | 50 | 50 |
| 06-2-47-21600 | Staff \& Volunteer Appreciation | - | - | 148 | 700 | 339 | 200 | 435 | 200 | - | - | - |
| 06-2-47-21700 | Telephone - Office | 399 | 401 | 266 | 180 | - | 253 | 301 | 301 | 301 | 307 | 400 |
| 06-2-47-22100 | Advertising \& Promotion | 1,534 | 713 | 845 | 945 | - | - | - | - | - | - | - |
| 06-2-47-23000 | Management Fees | 31,490 | 33,450 | 36,288 | 39,551 | 42,260 | 44,730 | 47,440 | 50,286 | 52,316 | 54,595 | 55,728 |
| 06-2-47-23100 | Accounting and Auditor Fees | 4,325 | 16,400 | 8,500 | 8,500 | 8,625 | 8,750 | 10,605 | 8,052 | 8,031 | 8,243 | 8,000 |
| 06-2-47-23200 | Legal Fees | 1,808 | - | 100 | - | 400 | 125 | - | - | - | 300 | 500 |
| 06-2-47-26200 | Building Rent | 7,200 | 1,200 | 1,200 | 600 | - | - | - | - | - | - | - |
| 06-2-47-27400 | Insurance \& Bond Premiums | 4,204 | 4,621 | 4,796 | 4,376 | 4,350 | 4,331 | 4,480 | 4,386 | 4,157 | 3,903 | 3,889 |
| 06-2-47-34200 | Administration | - | 6,000 | 6,000 | 6,000 | 6,163 | 6,469 | 8,003 | 9,382 | 9,760 | 10,183 | 10,392 |
| 06-2-47-51100 | Meeting Supplies | - | - | - | 14 | 58 | 97 | 50 | 18 | 25 | 15 | 50 |
| 06-2-47-51400 | Office Supplies | 304 | 683 | 440 | 195 | - | - | 20 | - | - | 120 | 150 |
| 06-2-47-51500 | Computer Services | 4,536 | 3,577 | 3,694 | 2,250 | - | - | - | - | - | - | - |
| 06-2-47-84100 | Bank Charges \& Interest | 21 | 46 | - | - | 21 | 79 | - | - | 20 | 20 | 25 |
|  | Subtotal | 123,584 | 76,136 | 70,146 | 70,843 | 67,555 | 69,344 | 75,338 | 76,504 | 78,004 | 82,430 | 84,284 |
| TREATMENT |  |  |  |  |  |  |  |  |  |  |  |  |
| 06-2-47-35100 | Purchase of Water | 1,675,303 | 2,279,540 | 2,100,706 | 2,369,297 | 2,710,912 | 2,907,659 | 3,166,327 | 3,369,086 | 3,597,885 | 3,510,318 | 3,863,404 |
|  | Subtotal | 1,675,303 | 2,279,540 | 2,100,706 | 2,369,297 | 2,710,912 | 2,907,659 | 3,166,327 | 3,369,086 | 3,597,885 | 3,510,318 | 3,863,404 |
| TRANSMISSION |  |  |  |  |  |  |  |  |  |  |  |  |
| 06-2-47-21180 | Travel - Operations | - | - | 594 | - | - | - | - | - | - | - | - |
| 06-2-47-21701 | Telephone - Operations | 9,171 | 9,692 | 9,889 | 8,870 | 8,327 | 8,399 | 8,487 | 8,397 | 8,447 | 8,080 | 8,072 |
| 06-2-47-23900 | Other Professional Services | 7,389 | 2,666 | 3,889 | 179,456 | 6,468 | 6,489 | 12,445 | 49,820 | 41,712 | 10,100 | 46,800 |
| 06-2-47-25300 | Equipment Repair \& Maintenance | 6,236 | 7,319 | 1,335 | 1,230 | 12,542 | 5,374 | 7,724 | 38,809 | 17,497 | 861 | 7,500 |
| 06-2-47-25301 | SCADA Maintenance | - | 6,419 | 13,878 | 15,729 | 10,764 | 10,764 | 10,764 | 10,764 | 11,481 | 9,014 | 8,300 |

Schedule "A" Cash Non Cash Operating Expenses

| ACCOUNT | GL DESCRIPTION | $\begin{gathered} 2007 \\ \text { ACTUAL } \end{gathered}$ | 2008 ACTUAL | $\begin{gathered} 2009 \\ \text { ACTUAL } \end{gathered}$ | $\begin{gathered} 2010 \\ \text { ACTUAL } \end{gathered}$ | $\begin{gathered} 2011 \\ \text { ACTUAL } \end{gathered}$ | $\begin{gathered} 2012 \\ \text { ACTUAL } \end{gathered}$ | $\begin{gathered} 2013 \\ \text { ACTUAL } \end{gathered}$ | $\begin{gathered} 2014 \\ \text { ACTUAL } \end{gathered}$ | $\begin{gathered} 2015 \\ \text { ACTUAL } \end{gathered}$ | $\begin{gathered} 2016 \\ \text { ACTUAL } \end{gathered}$ | $\begin{gathered} 2017 \\ \text { BUDGET } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 06-2-47-26300 | Equipment Rentals | - | - | - | 160 | 398 | - | - | - | - | - | - |
| 06-2-47-35200 | Operations | 9,911 | 90,873 | 89,917 | 91,001 | 82,664 | 83,546 | 93,139 | 111,125 | 111,314 | 101,860 | 121,300 |
| 06-2-47-51000 | Miscellaneous Expenses | - | - | - | - | - | - | 364 | 322 | 264 | - | 250 |
| 06-2-47-51200 | Safety Gear | 180 | 190 | 222 | - | - | - | - | - |  |  | - |
| 06-2-47-52400 | General Materials \& Supplies | 205 | 887 | 10 | 119 | 537 | 253 | 186 | 385 | 490 | 295 | 500 |
| 06-2-47-54400 | Utilities-Electricity | 4,898 | 3,945 | 4,375 | 2,944 | 3,975 | 4,246 | 4,096 | 3,829 | 3,525 | 2,732 | 3,500 |
| 06-2-47-56400 | Valves | - | - | - | 3,853 | 342 | $(2,851)$ | 5,717 | 6,028 | 12,701 | 2,877 | 5,000 |
|  | Subtotal | 37,990 | 121,991 | 124,109 | 303,362 | 126,017 | 116,220 | 142,922 | 229,479 | 207,431 | 135,819 | 201,222 |
| NON OPERATING AND NON CASH EXPENSES |  |  |  |  |  |  |  |  |  |  |  |  |
| 06-2-47-76100 | Transfer to Operating Res | 208,568 | - | - | - | 207,949 | - | - | - | - |  |  |
| 06-2-47-76200 | Transfer to Capital Reserve | - | - | - | - | 207,949 | - | - | - | - | - |  |
| 06-2-47-83100 | Debenture Interest | 841,912 | 822,423 | 801,789 | 780,436 | 757,651 | 729,322 | 714,143 | 683,614 | 656,651 | 628,458 | 601,086 |
| 06-2-47-83200 | Debenture Principal | 431,399 | 451,072 | 471,641 | 493,149 | 515,637 | 539,151 | 563,737 | 589,444 | 616,323 | 644,428 | 673,815 |
| 06-2-47-92700 | Uncollectable Trade Accounts | 9,335 | - | - | - | - | - | - | - | - | - |  |
| 06-2-47-99000 | Amortization | - | - | 462,350 | 465,610 | 465,610 | 465,610 | 465,610 | 465,610 | 465,610 | 465,610 | 465,610 |
|  | Subtotal | 1,491,214 | 1,273,495 | 1,735,780 | 1,739,195 | 2,154,796 | 1,734,083 | 1,743,490 | 1,738,668 | 1,738,584 | 1,738,496 | 1,740,511 |
|  | Total Eligible Operating Costs | 1,836,877 | 2,477,667 | 2,294,961 | 2,743,502 | 2,904,484 | 3,093,223 | 3,384,587 | 3,675,069 | 3,883,320 | 3,728,567 | 4,148,910 |
|  | Non-Eligible Costs | 1,491,214 | 1,273,495 | 1,735,780 | 1,739,195 | 2,154,796 | 1,734,083 | 1,743,490 | 1,738,668 | 1,738,584 | 1,738,496 | 1,740,511 |
|  | Total Budget Costs | 3,328,091 | 3,751,162 | 4,030,741 | 4,482,697 | 5,059,280 | 4,827,306 | 5,128,077 | 5,413,737 | 5,621,904 | 5,467,064 | 5,889,421 |

Schedule "B" Revenue Requirement

## 1. Net Cash Operating Expenses (Schedule " A ")

| 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ACTUAL | ACTUAL | ACTUAL | ACTUAL | ACTUAL | ACTUAL | ACTUAL | ACTUAL | ACTUAL | ACTUAL | BUDGET |
| 1,836,877 | 2,477,667 | 2,294,961 | 2,743,502 | 2,904,484 | 3,093,223 | 3,384,587 | 3,675,069 | 3,883,320 | 3,728,567 | 4,148,910 |
| $\begin{gathered} 458,162 \\ (218,714) \end{gathered}$ | $\begin{gathered} 459,090 \\ (229,027) \end{gathered}$ | $\begin{gathered} 462,350 \\ (231,891) \end{gathered}$ | $\begin{gathered} 465,610 \\ (231,891) \end{gathered}$ | $\begin{gathered} 465,610 \\ (231,891) \end{gathered}$ | $\begin{gathered} 465,610 \\ (231,891) \end{gathered}$ | $\begin{gathered} 465,610 \\ (231,891) \end{gathered}$ | $\begin{gathered} 465,610 \\ (231,891) \end{gathered}$ | $\begin{gathered} 465,610 \\ (231,891) \end{gathered}$ | $\begin{gathered} 465,610 \\ (231,891) \end{gathered}$ | $\begin{gathered} 465,610 \\ (231,891) \end{gathered}$ |
| 239,448 | 230,063 | 230,459 | 233,720 | 233,720 | 233,720 | 233,720 | 233,720 | 233,720 | 233,720 | 233,720 |
| 921,242 | 883,031 | 882,340 | 892,098 | 891,428 | 894,965 | 891,131 | 896,171 | 901,334 | 903,753 | 920,588 |
| 2,997,568 | 3,590,760 | 3,407,761 | 3,869,319 | 4,029,632 | 4,221,908 | 4,509,437 | 4,804,959 | 5,018,374 | 4,866,040 | 5,303,218 |

## 5. Revenues @Actual

a) Sale of Water
b) County Contributions
c) Interest Revenue
d) Rebates/Dividends
e) Line Crossing Fees/Misc Fees Total
6. Surplus/Deficit Actual

## 7. Breakeven Analysis

a) Non - Water Sales Revenue
b) Required Water Sales for Breakeven Total Revenue

## 8. Surplus/Deficit - Breakeven

Schedule "C" - Regional Water Rate Comparison (Excludes City of Red Deer)

## 1. Current Rates

a) Water Sales (\$)
b) Volume Sold (excl water loss)
c) Rate per unit

| 2007 | 2008 | $\begin{gathered} 2009 \\ \text { ACTUAL } \end{gathered}$ | $\begin{gathered} 2010 \\ \text { ACTUAL } \end{gathered}$ | $\begin{gathered} 2011 \\ \text { ACTUAL } \end{gathered}$ | $\begin{gathered} 2012 \\ \text { ACTUAL } \end{gathered}$ | $\begin{gathered} 2013 \\ \text { ACTUAL } \end{gathered}$ | $\begin{gathered} 2014 \\ \text { ACTUAL } \end{gathered}$ | $\begin{gathered} 2015 \\ \text { ACTUAL } \end{gathered}$ | 2016 ACTUAL | 2017 BUDGET |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3,154,131 | 3,737,495 | 4,191,224 | 4,022,842 | 4,448,028 | 4,890,880 | 5,142,826 | 5,522,603 | 5,760,181 | 5,485,677 | 5,617,068 |
| 2,426,254 | 2,661,263 | 2,508,111 | 2,366,377 | 2,381,393 | 2,460,881 | 2,539,074 | 2,720,494 | 2,837,528 | 2,702,304 | 2,768,605 |
| 1.300 | 1.404 | 1.671 | 1.700 | 1.868 | 1.987 | 2.025 | 2.030 | 2.030 | 2.030 | 2.029 |
| ricing |  |  |  |  |  |  |  |  |  |  |
| 2,811,072 | 3,437,093 | 3,268,849 | 3,725,434 | 3,883,989 | 4,065,155 | 4,339,611 | 4,215,153 | 4,484,669 | 4,335,323 | 5,118,287 |
| 2,426,254 | 2,661,263 | 2,508,111 | 2,366,377 | 2,381,393 | 2,460,881 | 2,539,074 | 2,720,494 | 2,837,528 | 2,702,304 | 2,768,605 |
| 1.159 | 1.292 | 1.303 | 1.574 | 1.631 | 1.652 | 1.709 | 1.549 | 1.580 | 1.604 | 1.849 |

Appendix "A1"- Capital Asset Amortization

|  |  | Land | Right of Way | WIP <br> Transmission | Transmission Lines | WIP <br> Distribution | Blackfalds Distribution Line | Ponoka County <br> Distriution Line Pumps | WIP <br> \& Struc | tures | Pumps \& Lifts Stations | Structures | Other | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Useful Life |  |  |  |  | 75 |  | 75 | 75 |  |  | 45 | 45 |  |  |
| Amortizatio |  | 0.00\% | 0.00\% | 0.00\% | 1.33\% | 0.00\% | 1.33\% | 1.33\% | 0.00\% |  | 2.22\% | 2.22\% |  |  |
| 2003 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Opening | - | - | - | - | - | - | - |  | - | - | - | - | - |
|  | Additions | - | - | - | - | - | - | - |  | - | - | - | - | - |
|  | Retirements |  |  |  |  |  |  |  |  |  |  |  |  | - |
|  | Closing | - | - | - | - | - | - | - |  | - | - | - | - | - |
| 2004 O | Opening |  | - | - | - | - | - | - |  | - | - | - | - | - |
|  | Additions | - | - | - | - | - | - | - |  | - | - | - | - | - |
|  | Retirements |  |  |  |  |  |  |  |  |  |  |  |  | - |
|  | Closing | - | - | - | - | - | - | - |  | - | - | - | - | - |
| 2005 | Opening | - | - | - | - | - | - | - |  | - | - | - | - | - |
|  | Additions | - | - | - | - | - | - | - |  | - | - | - | - | - |
|  | Retirements |  |  |  |  |  |  |  |  |  |  |  |  | - |
|  | Closing | - | - | - | - | - | - | - |  | - | - | - | - | - |
| 2006 | Opening | - | - | - | - | - | - | - |  | - | - | - | - | - |
|  | Additions | - | - | - | 226,217.97 | - | - | - |  | - | 2,398.93 | - | - | 228,616.90 |
|  | Retirements |  |  |  |  |  |  |  |  |  |  |  |  | - |
|  | Closing | - | - | - | 226,217.97 | - | - | - |  | - | 2,398.93 | - | - | 228,616.90 |
| 2007 O | Opening | - | - | - | 226,217.97 | - | - | - |  | - | 2,398.93 | - | - | 228,616.90 |
|  | Additions | - | - | - | 453,363.99 | - | - | - |  | - | 4,797.87 | - | - | 458,161.86 |
|  | Retirements |  |  |  |  |  |  |  |  |  |  |  |  | - |
|  | Closing | - | - | - | 679,581.96 | - | - | - |  | - | 7,196.80 | - | - | 686,778.76 |
| 2008 | Opening | - | - | - | 679,581.96 | - | - | - |  | - | 7,196.80 | - | - | 686,778.76 |
|  | Additions | - | - | - | 454,292.05 | - | - | - |  | - | 4,797.87 | - | - | 459,089.92 |
|  | Retirements |  |  |  |  |  |  |  |  |  |  |  |  | - |
|  | Closing | - | - | - | 1,133,874.01 | - | - | - |  | - | 11,994.67 | - | - | 1,145,868.68 |
| 2009 A | Opening | - | - | - | 1,133,874.01 | - | - | - |  | - | 11,994.67 | - | - | 1,145,868.68 |
|  | Additions | - | - | - | 454,292.05 | - | 784.09 | 2,475.99 |  | - | 4,797.87 | - | - | 462,350.00 |
|  | Retirements |  |  |  |  |  |  |  |  |  |  |  |  | - |
|  | Closing | - | - | - | 1,588,166.06 | - | 784.09 | 2,475.99 |  | - | 16,792.54 | - | - | 1,608,218.68 |
| 2010 O | Opening | - | - | - | 1,588,166.06 | - | 784.09 | 2,475.99 |  | - | 16,792.54 | - | - | 1,608,218.68 |
|  | Additions | - | - | - | 454,292.05 | - | 1,568.18 | 4,951.98 |  | - | 4,797.87 | - | - | 465,610.08 |
|  | Retirements |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Closing | - | - | - | 2,042,458.11 | - | 2,352.28 | 7,427.97 |  | - | 21,590.41 | - | - | 2,073,828.77 |
| 2011 | Opening | - | - | - | 2,042,458.11 | - | 2,352.28 | 7,427.97 |  | - | 21,590.41 | - | - | 2,073,828.77 |
|  | Additions | - | - | - | 454,292.05 | - | 1,568.18 | 4,951.98 |  | - | 4,797.87 | - | - | 465,610.08 |
|  | Retirements |  |  |  |  |  |  |  |  |  |  |  |  | - |
|  | Closing | - | - | - | 2,496,750.16 | - | 3,920.46 | 12,379.95 |  | - | 26,388.28 | - | - | 2,539,438.85 |
| 2012 A | Opening | - | - | - | 2,496,750.16 | - | 3,920.46 | 12,379.95 |  | - | 26,388.28 | - | - | 2,539,438.85 |
|  | Additions | - | - | - | 454,292.05 | - | 1,568.18 | 4,951.98 |  | - | 4,797.87 | - | - | 465,610.08 |
|  | Retirements |  |  |  |  |  |  |  |  |  |  |  |  | - |
|  | Closing | - | - | - | 2,951,042.21 | - | 5,488.65 | 17,331.93 |  | - | 31,186.15 | - | - | 3,005,048.94 |
| 2013 | Opening | - | - | - | 2,951,042.21 | - | 5,488.65 | 17,331.93 |  | - | 31,186.15 | - | - | 3,005,048.94 |
|  | Additions | - | - | - | 454,292.05 | - | 1,568.18 | 4,951.98 |  | - | 4,797.87 | - | - | 465,610.08 |
|  | Retirements |  |  |  |  |  |  |  |  |  |  |  |  | - |
|  | Closing | - | - | - | 3,405,334.27 | - | 7,056.83 | 22,283.91 |  | - | 35,984.02 | - | - | 3,470,659.02 |

Appendix "A1"- Capital Asset Amortization

|  | Land | Right of Way | WIP <br> Transmission | Transmission Lines | WIP <br> Distribution | Blackfalds Distribution Line | Ponoka County <br> Distriution Line Pumps | $\begin{gathered} \text { WIP } \\ \text { s \& Struct } \end{gathered}$ | tures | Pumps \& Lifts Stations | Structures | Other | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Useful Life |  |  |  | 75 |  | 75 | 75 |  |  | 45 | 45 |  |  |
| Amortization | 0.00\% | 0.00\% | 0.00\% | 1.33\% | 0.00\% | 1.33\% | 1.33\% | 0.00\% |  | 2.22\% | 2.22\% |  |  |
| 2014 Opening | - | - | - | 3,405,334.27 | - | 7,056.83 | 22,283.91 |  | - | 35,984.02 | - | - | 3,470,659.02 |
| Additions | - | - | - | 454,292.05 | - | 1,568.18 | 4,951.98 |  | - | 4,797.87 | - | - | 465,610.08 |
| Retirements |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Closing | - | - | - | 3,859,626.32 | - | 8,625.02 | 27,235.89 |  | - | 40,781.89 | - | - | 3,936,269.10 |
| 2015 Opening | - | - | - | 3,859,626.32 | - | 8,625.02 | 27,235.89 |  | - | 40,781.89 | - | - | 3,936,269.10 |
| Additions | - | - | - | 454,292.05 | - | 1,568.18 | 4,951.98 |  | - | 4,797.87 | - | - | 465,610.08 |
| Retirements |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Closing | - | - | - | 4,313,918.37 | - | 10,193.20 | 32,187.86 |  | - | 45,579.75 | - | - | 4,401,879.19 |
| 2016 Opening | - | - | - | 4,313,918.37 | - | 10,193.20 | 32,187.86 |  | - | 45,579.75 | - | - | 4,401,879.19 |
| Additions | - | - | - | 454,292.05 | - | 1,568.18 | 4,951.98 |  | - | 4,797.87 | - | - | 465,610.08 |
| Retirements |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Closing | - | - | - | 4,768,210.42 | - | 11,761.39 | 37,139.84 |  | - | 50,377.62 | - | - | 4,867,489.27 |
| 2017 Opening | - | - | - | 4,768,210.42 | - | 11,761.39 | 37,139.84 |  | - | 50,377.62 | - | - | 4,867,489.27 |
| Additions | - | - | - | 454,292.05 | - | 1,568.18 | 4,951.98 |  | - | 4,797.87 | - | - | 465,610.08 |
| Retirements |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Closing | - | - | - | 5,222,502.47 | - | 13,329.57 | 42,091.82 |  | - | 55,175.49 | - | - | 5,333,099.35 |

Appendix "A2" - Capital Assets

|  |  | Land | Right of Way | WIP <br> Transmission | Transmission Lines | WIP <br> Distribution | Blackfalds Distribution Line | Ponoka County Distriution Line | WIP <br> Pumps \& Structures | Pumps \& Lifts Stations | Structures | Other | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Useful Life |  |  |  |  | 75 |  | 75 | 75 |  | 45 | 45 |  |  |
| Amortization |  | 0.00\% | 0.00\% | 0.00\% | 1.33\% | 0.00\% | 1.33\% | 1.33\% | 0.00\% | 2.22\% | 2.22\% |  |  |
| 2003 |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Opening | - | - | - | - | - | - | - | - | - | - | - | - |
|  | Additions |  | 38,759.77 | 193,360.73 |  |  |  |  |  |  |  |  | 232,120.50 |
|  | Retirements |  |  |  |  |  |  |  |  |  |  |  | - |
|  | Closing | - | 38,759.77 | 193,360.73 | - | - | - | - | - | - | - | - | 232,120.50 |
| 2004 O | Opening | - | 38,759.77 | 193,360.73 | - | - | - | - | - | - | - | - | 232,120.50 |
|  | Additions |  | 433,755.59 | 346,492.57 |  |  |  |  | 145,000.00 |  |  |  | 925,248.16 |
|  | Retirements |  |  |  |  |  |  |  |  |  |  |  | - |
|  | Closing | - | 472,515.36 | 539,853.30 | - | - | - | - | 145,000.00 | - | - | - | 1,157,368.66 |
| 2005 O | Opening | - | 472,515.36 | 539,853.30 | - | - | - | - | 145,000.00 | - | - | - | 1,157,368.66 |
|  | Additions |  | 1,010,359.31 | 31,838,004.13 |  |  |  |  | 70,904.10 |  |  |  | 32,919,267.54 |
|  | Retirements |  |  |  |  |  |  |  |  |  |  |  | - |
|  | Closing | - | 1,482,874.67 | 32,377,857.43 | - | - | - | - | 215,904.10 | - | - | - | 34,076,636.20 |
| 2006 A | Opening | - | 1,482,874.67 | 32,377,857.43 | - | - | - | - | 215,904.10 | - | - | - | 34,076,636.20 |
|  | Additions |  | 294,449.00 |  | 33,932,694.99 |  |  |  |  | 215,904.10 |  |  | 34,443,048.09 |
|  | Retirements |  |  | 32,377,857.43 |  |  |  |  | 215,904.10 |  |  |  | 32,593,761.53 |
|  | Closing | - | 1,777,323.67 | - | 33,932,694.99 | - | - | - | - | 215,904.10 | - | - | 35,925,922.76 |
| 2007 O | Opening | - | 1,777,323.67 | - | 33,932,694.99 | - | - | - | - | 215,904.10 | - | - | 35,925,922.76 |
|  | Additions |  | 44,368.76 |  | 139,208.84 | 19,970.00 |  |  |  |  |  |  | 203,547.60 |
|  | Retirements |  |  |  |  |  |  |  |  |  |  |  | - |
|  | Closing | - | 1,821,692.43 | - | 34,071,903.83 | 19,970.00 | - | - | - | 215,904.10 | - | - | 36,129,470.36 |
| 2008 A | Opening | - | 1,821,692.43 | - | 34,071,903.83 | 19,970.00 | - | - | - | 215,904.10 | - | - | 36,129,470.36 |
|  | Additions |  |  |  |  | 372,044.98 |  |  |  |  |  |  | 372,044.98 |
|  | Retirements |  |  |  |  |  |  |  |  |  |  |  | - |
|  | Closing | - | 1,821,692.43 | - | 34,071,903.83 | 392,014.98 | - | - | - | 215,904.10 | - | - | 36,501,515.34 |
| 2009 | Opening | - | 1,821,692.43 | - | 34,071,903.83 | 392,014.98 | - | - | - | 215,904.10 | - | - | 36,501,515.34 |
|  | Additions |  |  |  |  |  | 117,613.85 | 371,398.44 |  |  |  |  | 489,012.29 |
|  | Retirements |  |  |  |  | 392,014.98 |  |  |  |  |  |  | 392,014.98 |
|  | Closing | - | 1,821,692.43 | - | 34,071,903.83 | - | 117,613.85 | 371,398.44 | - | 215,904.10 | - | - | 36,598,512.65 |
| 2010 O | Opening | - | 1,821,692.43 | - | 34,071,903.83 | - | 117,613.85 | 371,398.44 | - | 215,904.10 | - | - | 36,598,512.65 |
|  | Additions |  |  |  |  |  |  |  |  |  |  |  | - |
|  | Retirements |  |  |  |  |  |  |  |  |  |  |  | - |
|  | Closing | - | 1,821,692.43 | - | 34,071,903.83 | - | 117,613.85 | 371,398.44 | - | 215,904.10 | - | - | 36,598,512.65 |
| 2011 | Opening | - | 1,821,692.43 | - | 34,071,903.83 | - | 117,613.85 | 371,398.44 | - | 215,904.10 | - | - | 36,598,512.65 |
|  | Additions |  |  |  |  |  |  |  |  |  |  |  | - |
|  | Retirements |  |  |  |  |  |  |  |  |  |  |  | - |
|  | Closing | - | 1,821,692.43 | - | 34,071,903.83 | - | 117,613.85 | 371,398.44 | - | 215,904.10 | - | - | 36,598,512.65 |
| 2012 | Opening | - | 1,821,692.43 | - | 34,071,903.83 | - | 117,613.85 | 371,398.44 | - | 215,904.10 | - | - | 36,598,512.65 |
|  | Additions |  |  |  |  |  |  |  |  |  |  |  | - |
|  | Retirements |  |  |  |  |  |  |  |  |  |  |  | - |
|  | Closing | - | 1,821,692.43 | - | 34,071,903.83 | - | 117,613.85 | 371,398.44 | - | 215,904.10 | - | - | 36,598,512.65 |
| 2013 O | Opening | - | 1,821,692.43 | - | 34,071,903.83 | - | 117,613.85 | 371,398.44 | - | 215,904.10 | - | - | 36,598,512.65 |
|  | Additions |  |  |  |  |  |  |  |  |  |  |  | - |
|  | Retirements |  |  |  |  |  |  |  |  |  |  |  | - |
|  | Closing | - | 1,821,692.43 | - | 34,071,903.83 | - | 117,613.85 | 371,398.44 | - | 215,904.10 | - | - | 36,598,512.65 |

Appendix "A2" - Capital Assets

|  | Land |  | Right of Way | WIP <br> Transmission | Transmission Lines | WIP <br> Distribution | Blackfalds Distribution Line | Ponoka County Distriution Line | WIP <br> Pumps \& Structures | Pumps \& Lifts Stations | Structures | Other | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Useful Life |  |  |  |  | 75 |  | 75 | 75 |  | 45 | 45 |  |  |
| Amortization | 0.00\% |  | 0.00\% | 0.00\% | 1.33\% | 0.00\% | 1.33\% | 1.33\% | 0.00\% | 2.22\% | 2.22\% |  |  |
| 2014 Opening |  | - | 1,821,692.43 | - | 34,071,903.83 | - | 117,613.85 | 371,398.44 | - | 215,904.10 | - | - | 36,598,512.65 |
| Additions |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Retirements |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Closing |  | - | 1,821,692.43 | - | 34,071,903.83 | - | 117,613.85 | 371,398.44 | - | 215,904.10 | - | - | 36,598,512.65 |
| 2015 Opening |  | - | 1,821,692.43 | - | 34,071,903.83 | - | 117,613.85 | 371,398.44 | - | 215,904.10 | - | - | 36,598,512.65 |
| Additions |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Retirements |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Closing |  | - | 1,821,692.43 | - | 34,071,903.83 | - | 117,613.85 | 371,398.44 | - | 215,904.10 | - | - | 36,598,512.65 |
| 2016 Opening |  | - | 1,821,692.43 | - | 34,071,903.83 | - | 117,613.85 | 371,398.44 | - | 215,904.10 | - | - | 36,598,512.65 |
| Additions |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Retirements |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Closing |  | - | 1,821,692.43 | - | 34,071,903.83 | - | 117,613.85 | 371,398.44 | - | 215,904.10 | - | - | 36,598,512.65 |
| 2017 Opening |  | - | 1,821,692.43 | - | 34,071,903.83 | - | 117,613.85 | 371,398.44 | - | 215,904.10 | - | - | 36,598,512.65 |
| Additions |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Retirements |  |  |  |  |  |  |  |  |  |  |  |  | - |
| Closing |  | - | 1,821,692.43 | - | 34,071,903.83 | - | 117,613.85 | 371,398.44 | - | 215,904.10 | - | - | 36,598,512.65 |

Appendix "B1" - No Cost Capital Amortization

|  | Provincial Grants | Federal Grants | Customer Contributions | Member Contributions | Other | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Useful Life | 75 | 75 | 75 | 75 | 75 |  |
| Amortization | 1.33\% | 1.33\% | 1.33\% | 1.33\% | 1.33\% |  |
| 2003 |  |  |  |  |  |  |
| Opening | - | - | - | - | - | - |
| Additions |  |  |  |  |  | - |
| Retirements |  |  |  |  |  | - |
| Closing | - | - | - | - | - | - |
| 2004 Opening | - | - | - | - | - | - |
| Additions |  |  |  |  |  | - |
| Retirements |  |  |  |  |  | - |
| Closing | - | - | - | - | - | - |
| 2005 Opening | - | - | - | - | - | - |
| Additions |  |  |  |  |  | - |
| Retirements |  |  |  |  |  | - |
| Closing | - | - | - | - | - | - |
| 2006 Opening | - | - | - | - | - | - |
| Additions | 105,631.60 | - | - | - | - | 105,631.60 |
| Retirements |  |  |  |  |  | - - |
| Closing | 105,631.60 | - | - | - | - | 105,631.60 |
| 2007 Opening | 105,631.60 | - | - | - | - | 105,631.60 |
| Additions | 218,713.55 | - | - | - | - | 218,713.55 |
| Retirements |  |  |  |  |  | - |
| Closing | 324,345.15 | - | - | - | - | 324,345.15 |
| 2008 Opening | 324,345.15 | - | - | - | - | 324,345.15 |
| Additions | 229,027.23 | - | - | - | - | 229,027.23 |
| Retirements |  |  |  |  |  | - |
| Closing | 553,372.38 | - | - | - | - | 553,372.38 |
| 2009 Opening | 553,372.38 | - | - | - | - | 553,372.38 |
| Additions | 231,890.54 | - | - | - | - | 231,890.54 |
| Retirements |  |  |  |  |  | - |
| Closing | 785,262.92 | - | - | - | - | 785,262.92 |
| 2010 Opening | 785,262.92 | - | - | - | - | 785,262.92 |
| Additions | 231,890.54 | - | - | - | - | 231,890.54 |
| Retirements |  |  |  |  |  | - |
| Closing | 1,017,153.46 | - | - | - | - | 1,017,153.46 |

Appendix "B1" - No Cost Capital Amortization

|  | Provincial Grants | Federal <br> Grants | Customer Contributions | Member Contributions | Other | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Useful Life | 75 | 75 | 75 | 75 | 75 |  |
| Amortization | 1.33\% | 1.33\% | 1.33\% | 1.33\% | 1.33\% |  |
| 2011 Opening | 1,017,153.46 | - | - | - | - | 1,017,153.46 |
| Additions | 231,890.54 | - | - | - | - | 231,890.54 |
| Retirements |  |  |  |  |  | - |
| Closing | 1,249,044.00 | - | - | - | - | 1,249,044.00 |
| 2012 Opening | 1,249,044.00 | - | - | - | - | 1,249,044.00 |
| Additions | 231,890.54 | - | - | - | - | 231,890.54 |
| Retirements |  |  |  |  |  | - |
| Closing | 1,480,934.54 | - | - | - | - | 1,480,934.54 |
| 2013 Opening | 1,480,934.54 | - | - | - | - | 1,480,934.54 |
| Additions | 231,890.54 | - | - | - | - | 231,890.54 |
| Retirements |  |  |  |  |  | - |
| Closing | 1,712,825.08 | - | - | - | - | 1,712,825.08 |
| 2014 Opening | 1,712,825.08 | - | - | - | - | 1,712,825.08 |
| Additions | 231,890.54 | - | - | - | - | 231,890.54 |
| Retirements |  |  |  |  |  | - |
| Closing | 1,944,715.62 | - | - | - | - | 1,944,715.62 |
| 2015 Opening | 1,944,715.62 | - | - | - | - | 1,944,715.62 |
| Additions | 231,890.54 | - | - | - | - | 231,890.54 |
| Retirements |  |  |  |  |  | - |
| Closing | 2,176,606.16 | - | - | - | - | 2,176,606.16 |
| 2016 Opening | 2,176,606.16 | - | - | - | - | 2,176,606.16 |
| Additions | 231,890.54 | - | - | - | - | 231,890.54 |
| Retirements |  |  |  |  |  | - |
| Closing | 2,408,496.70 | - | - | - | - | 2,408,496.70 |
| 2017 Opening | 2,408,496.70 | - | - | - | - | 2,408,496.70 |
| Additions | 231,890.54 | - | - | - | - | 231,890.54 |
| Retirements |  |  |  |  |  | - |
| Closing | 2,640,387.24 | - | - | - | - | 2,640,387.24 |

Appendix "B2" - No Cost Capital

|  | Provincial Grants | Federal <br> Grants | Customer Contributions | Member Contributions | Other | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Useful Life | 75 | 75 | 75 | 75 | 75 |  |
| Amortization | 1.33\% | 1.33\% | 1.33\% | 1.33\% | 1.33\% |  |
| 2003 |  |  |  |  |  |  |
| Opening | - | - | - | - | - | - |
| Additions | 4,070,935.00 |  |  |  |  | 4,070,935.00 |
| Retirements |  |  |  |  |  | - |
| Closing | 4,070,935.00 | - | - | - | - | 4,070,935.00 |
| 2004 Opening | 4,070,935.00 | - | - | - | - | 4,070,935.00 |
| Additions | 73,804.27 |  |  |  |  | 73,804.27 |
| Retirements |  |  |  |  |  | - |
| Closing | 4,144,739.27 | - | - | - | - | 4,144,739.27 |
| 2005 Opening | 4,144,739.27 | - | - | - | - | 4,144,739.27 |
| Additions | 6,200,000.00 |  |  |  |  | 6,200,000.00 |
| Retirements |  |  |  |  |  | - |
| Closing | 10,344,739.27 | - | - | - | - | 10,344,739.27 |
| 2006 Opening | 10,344,739.27 | - | - | - | - | 10,344,739.27 |
| Additions | 5,500,000.00 |  |  |  |  | 5,500,000.00 |
| Retirements |  |  |  |  |  | - |
| Closing | 15,844,739.27 | - | - | - | - | 15,844,739.27 |
| 2007 Opening | 15,844,739.27 | - | - | - | - | 15,844,739.27 |
| Additions | 1,117,554.53 |  |  |  |  | 1,117,554.53 |
| Retirements |  |  |  |  |  | - |
| Closing | 16,962,293.80 | - | - | - | - | 16,962,293.80 |
| 2008 Opening | 16,962,293.80 | - | - | - | - | 16,962,293.80 |
| Additions | 429,496.71 |  |  |  |  | 429,496.71 |
| Retirements |  |  |  |  |  | - |
| Closing | 17,391,790.51 | - | - | - | - | 17,391,790.51 |
| 2009 Opening | 17,391,790.51 | - | - | - | - | 17,391,790.51 |
| Additions |  |  |  |  |  | - |
| Retirements |  |  |  |  |  | - |
| Closing | 17,391,790.51 | - | - | - | - | 17,391,790.51 |
| 2010 Opening | 17,391,790.51 | - | - | - | - | 17,391,790.51 |
| Additions |  |  |  |  |  | - |
| Retirements |  |  |  |  |  | - |
| Closing | 17,391,790.51 | - | - | - | - | 17,391,790.51 |

## Appendix "B2" - No Cost Capital

|  | Provincial Grants | Federal Grants | Customer Contributions | Member Contributions | Other | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Useful Life | 75 | 75 | 75 | 75 | 75 |  |
| Amortization | 1.33\% | 1.33\% | 1.33\% | 1.33\% | 1.33\% |  |
| 2011 Opening | 17,391,790.51 | - | - | - | - | 17,391,790.51 |
| Additions |  |  |  |  |  | - |
| Retirements |  |  |  |  |  | - |
| Closing | 17,391,790.51 | - | - | - | - | 17,391,790.51 |
| 2012 Opening | 17,391,790.51 | - | - | - | - | 17,391,790.51 |
| Additions |  |  |  |  |  |  |
| Retirements |  |  |  |  |  | - |
| Closing | 17,391,790.51 | - | - | - | - | 17,391,790.51 |
| 2013 Opening | 17,391,790.51 | - | - | - | - | 17,391,790.51 |
| Additions |  |  |  |  |  | - |
| Retirements |  |  |  |  |  | - |
| Closing | 17,391,790.51 | - | - | - | - | 17,391,790.51 |
| 2014 Opening | 17,391,790.51 | - | - | - | - | 17,391,790.51 |
| Additions |  |  |  |  |  | - |
| Retirements |  |  |  |  |  | - |
| Closing | 17,391,790.51 | - | - | - | - | 17,391,790.51 |
| 2015 Opening | 17,391,790.51 | - | - | - | - | 17,391,790.51 |
| Additions |  |  |  |  |  | - |
| Retirements |  |  |  |  |  | - |
| Closing | 17,391,790.51 | - | - | - | - | 17,391,790.51 |
| 2016 Opening | 17,391,790.51 | - | - | - | - | 17,391,790.51 |
| Additions |  |  |  |  |  | - |
| Retirements |  |  |  |  |  | - |
| Closing | 17,391,790.51 | - | - | - | - | 17,391,790.51 |
| 2017 Opening | 17,391,790.51 | - | - | - | - | 17,391,790.51 |
| Additions |  |  |  |  |  | - |
| Retirements |  |  |  |  |  | - |
| Closing | 17,391,790.51 | - | - | - | - | 17,391,790.51 |


|  |  | Year | Mid Year Capitalization | Capital Ratio Including NCC | Capital Ratio Excluding NCC | Rate <br> Base | Cost <br> Rate | Return |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1) | Long Term Debt (Schedule "C4") | 2007 | 18,788,567 | 52.48\% | 95.81\% | 18,788,567 | 4.51\% | 847,216 |
|  | Equity ( AUC Approved Rate) |  | 822,513 | 2.30\% | 4.19\% | 822,513 | 9.00\% | 74,026 |
|  | Subtotal |  | 19,611,080 | 54.78\% | 100.00\% | 19,611,080 | 4.70\% | 921,242 |
|  | Less No Cost Capital (Schedule "C3") |  | 16,188,528 | 45.22\% |  | 16,188,528 | 0.00\% | - |
|  | Total Capital (Schedule "C2") |  | 35,799,608 | 100.00\% |  | 35,799,608 | 2.57\% | 921,242 |
| 2) | Long Term Debt (Schedule "C4") | 2008 | 18,356,061 | 51.40\% | 96.76\% | 18,356,061 | 4.51\% | 827,714 |
|  | Equity ( AUC Approved Rate) |  | 614,633 | 1.72\% | 3.24\% | 614,633 | 9.00\% | 55,317 |
|  | Subtotal |  | 18,970,694 | 53.13\% | 100.00\% | 18,970,694 | 4.65\% | 883,031 |
|  | Less No Cost Capital (Schedule "C3") |  | 16,738,183 | 46.87\% |  | 16,738,183 | 0.00\% | - |
|  | Total Capital (Schedule "C2") |  | 35,708,878 | 100.00\% |  | 35,708,878 | 2.47\% | 883,031 |
| 3) | Long Term Debt (Schedule "C4") | 2009 | 17,903,832 | 50.49\% | 95.55\% | 17,903,832 | 4.51\% | 807,322 |
|  | Equity ( AUC Approved Rate) |  | 833,535 | 2.35\% | 4.45\% | 833,535 | 9.00\% | 75,018 |
|  | Subtotal |  | 18,737,368 | 52.84\% | 100.00\% | 18,737,368 | 4.71\% | 882,340 |
|  | Less No Cost Capital (Schedule "C3") |  | 16,722,473 | 47.16\% |  | 16,722,473 | 0.00\% | - |
|  | Total Capital (Schedule "C2") |  | 35,459,840 | 100.00\% |  | 35,459,840 | 2.49\% | 882,340 |
| 4) | Long Term Debt (Schedule "C4") | 2010 | 17,430,982 | 49.66\% | 93.67\% | 17,430,982 | 4.51\% | 786,000 |
|  | Equity ( AUC Approved Rate) |  | 1,178,862 | 3.36\% | 6.33\% | 1,178,862 | 9.00\% | 106,098 |
|  | Subtotal |  | 18,609,844 | 53.02\% | 100.00\% | 18,609,844 | 4.79\% | 892,098 |
|  | Less No Cost Capital (Schedule "C3") |  | 16,490,582 | 46.98\% |  | 16,490,582 | 0.00\% | - |
|  | Total Capital (Schedule "C2") |  | 35,100,427 | 100.00\% |  | 35,100,427 | 2.54\% | 892,098 |
| 5) | Long Term Debt (Schedule "C4") | 2011 | 16,936,570 | 48.87\% | 92.07\% | 16,936,570 | 4.51\% | 763,706 |
|  | Equity ( AUC Approved Rate) |  | 1,459,678 | 4.21\% | 7.93\% | 1,459,678 | 8.75\% | 127,722 |
|  | Subtotal |  | 18,396,248 | 53.08\% | 100.00\% | 18,396,248 | 4.85\% | 891,428 |
|  | Less No Cost Capital (Schedule "C3") |  | 16,258,692 | 46.92\% |  | 16,258,692 | 0.00\% | - |
|  | Total Capital (Schedule "C2") |  | 34,654,939 | 100.00\% |  | 34,654,939 | 2.57\% | 891,428 |
| 6) | Long Term Debt (Schedule "C4") | 2012 | 16,419,612 | 47.99\% | 90.29\% | 16,419,612 | 4.51\% | 740,396 |
|  | Equity ( AUC Approved Rate) |  | 1,766,508 | 5.16\% | 9.71\% | 1,766,508 | 8.75\% | 154,569 |
|  | Subtotal |  | 18,186,120 | 53.16\% | 100.00\% | 18,186,120 | 4.92\% | 894,965 |
|  | Less No Cost Capital (Schedule "C3") |  | 16,026,801 | 46.84\% |  | 16,026,801 | 0.00\% | - |
|  | Total Capital (Schedule "C2") |  | 34,212,922 | 100.00\% |  | 34,212,922 | 2.62\% | 894,965 |
| 7) | Long Term Debt (Schedule "C4") | 2013 | 15,879,081 | 47.00\% | 88.27\% | 15,879,081 | 4.51\% | 716,022 |
|  | Equity ( AUC Approved Rate) |  | 2,109,740 | 6.24\% | 11.73\% | 2,109,740 | 8.30\% | 175,108 |
|  | Subtotal |  | 17,988,821 | 53.25\% | 100.00\% | 17,988,821 | 4.95\% | 891,131 |
|  | Less No Cost Capital (Schedule "C3") |  | 15,794,911 | 46.75\% |  | 15,794,911 | 0.00\% | - |
|  | Total Capital (Schedule "C2") |  | 33,783,732 | 100.00\% |  | 33,783,732 | 2.64\% | 891,131 |
| 8) | Long Term Debt (Schedule "C4") | 2014 | 15,313,902 | 45.91\% | 86.07\% | 15,313,902 | 4.51\% | 690,537 |
|  | Equity ( AUC Approved Rate) |  | 2,477,510 | 7.43\% | 13.93\% | 2,477,510 | 8.30\% | 205,633 |
|  | Subtotal |  | 17,791,412 | 53.34\% | 100.00\% | 17,791,412 | 5.04\% | 896,171 |
|  | Less No Cost Capital (Schedule "C3") |  | 15,563,020 | 46.66\% |  | 15,563,020 | 0.00\% | - |
|  | Total Capital (Schedule "C2") |  | 33,354,432 | 100.00\% |  | 33,354,432 | 2.69\% | 896,171 |


|  |  | Year | Mid Year Capitalization | Capital Ratio Including NCC | Capital Ratio Excluding NCC | Rate <br> Base | Cost <br> Rate | Return |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9) | Long Term Debt (Schedule "C4") | 2015 | 14,722,950 | 44.73\% | 83.73\% | 14,722,950 | 4.51\% | 663,890 |
|  | Equity ( AUC Approved Rate) |  | 2,860,774 | 8.69\% | 16.27\% | 2,860,774 | 8.30\% | 237,444 |
|  | Subtotal |  | 17,583,724 | 53.42\% | 100.00\% | 17,583,724 | 5.13\% | 901,334 |
|  | Less No Cost Capital (Schedule "C3") |  | 15,331,130 | 46.58\% |  | 15,331,130 | 0.00\% | - |
|  | Total Capital (Schedule "C2") |  | 32,914,854 | 100.00\% |  | 32,914,854 | 2.74\% | 901,334 |
| 10) | Long Term Debt (Schedule "C4") | 2016 | 14,105,051 | 43.49\% | 81.39\% | 14,105,051 | 4.51\% | 636,028 |
|  | Equity ( AUC Approved Rate) |  | 3,225,609 | 9.95\% | 18.61\% | 3,225,609 | 8.30\% | 267,726 |
|  | Subtotal |  | 17,330,660 | 53.44\% | 100.00\% | 17,330,660 | 5.21\% | 903,753 |
|  | Less No Cost Capital (Schedule "C3") |  | 15,099,239 | 46.56\% |  | 15,099,239 | 0.00\% | - |
|  | Total Capital (Schedule "C2") |  | 32,429,899 | 100.00\% |  | 32,429,899 | 2.79\% | 903,753 |
| 11) | Long Term Debt (Schedule "C4") | 2017 | 13,458,976 | 42.04\% | 78.48\% | 13,458,976 | 4.51\% | 606,895 |
|  | Equity ( AUC Approved Rate) |  | 3,690,508 | 11.53\% | 21.52\% | 3,690,508 | 8.50\% | 313,693 |
|  | Subtotal |  | 17,149,484 | 53.56\% | 100.00\% | 17,149,484 | 5.37\% | 920,588 |
|  | Less No Cost Capital (Schedule "C3") |  | 14,867,349 | 46.44\% |  | 14,867,349 | 0.00\% | - |
|  | Total Capital (Schedule "C2") |  | 32,016,832 | 100.00\% |  | 32,016,832 | 2.88\% | 920,588 |

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## Appendix "C2" - Asset Rate Base

1. Gross Assets in Service (Schedule "A2")
a) Opening Balance
b) Additions
c) Retirements
d) Closing Balance
2. Accumulated Amortization (Schedule "A1")
a) Opening Balance
b) Additions
c) Retirements
d) Closing Balance
3. Net Assets in Services
a) Opening Balance
b) Closing Balance
c) Total
d) Mid Year Balance
4. Necessary Working Capital
a) Cash Expenses (Eligible) - Schedule "A"
b) 45 day Working Capital ( $1 / 8$ of expenses)
c) Prepaid Expenses
d) O\&M Inventory
e) Necessary Working Capital $(b+c+d)$
5. Utility Rate Based @ Mid Year

| 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ACTUAL | ACTUAL | ACTUAL | ACTUAL | ACTUAL | ACTUAL | ACTUAL | ACTUAL | ACTUAL | ACTUAL | BUDGET |
| 35,925,923 | 36,129,470 | 36,501,515 | 36,598,513 | 36,598,513 | 36,598,513 | 36,598,513 | 36,598,513 | 36,598,513 | 36,598,513 | 36,598,513 |
| 203,548 | 372,045 | 489,012 | - | - | - | - | - | - | - | - |
| - | - | 392,015 | - | - | - | - | - | - | - |  |
| 36,129,470 | 36,501,515 | 36,598,513 | 36,598,513 | 36,598,513 | 36,598,513 | 36,598,513 | 36,598,513 | 36,598,513 | 36,598,513 | 36,598,513 |
| 228,617 | 686,779 | 1,145,869 | 1,608,219 | 2,073,829 | 2,539,439 | 3,005,049 | 3,470,659 | 3,936,269 | 4,401,879 | 4,867,489 |
| 458,162 | 459,090 | 462,350 | 465,610 | 465,610 | 465,610 | 465,610 | 465,610 | 465,610 | 465,610 | 465,610 |
| - | - | - | - | - | - | - | - | - | - | - |
| 686,779 | 1,145,869 | 1,608,219 | 2,073,829 | 2,539,439 | 3,005,049 | 3,470,659 | 3,936,269 | 4,401,879 | 4,867,489 | 5,333,099 |
| 35,697,306 | 35,442,692 | 35,355,647 | 34,990,294 | 34,524,684 | 34,059,074 | 33,593,464 | 33,127,854 | 32,662,244 | 32,196,633 | 31,731,023 |
| 35,442,692 | 35,355,647 | 34,990,294 | 34,524,684 | 34,059,074 | 33,593,464 | 33,127,854 | 32,662,244 | 32,196,633 | 31,731,023 | 31,265,413 |
| 71,139,997 | 70,798,338 | 70,345,941 | 69,514,978 | 68,583,758 | 67,652,538 | 66,721,317 | 65,790,097 | 64,858,877 | 63,927,657 | 62,996,437 |
| 35,569,999 | 35,399,169 | 35,172,970 | 34,757,489 | 34,291,879 | 33,826,269 | 33,360,659 | 32,895,049 | 32,429,439 | 31,963,828 | 31,498,218 |
| 1,836,877 | 2,477,667 | 2,294,961 | 2,743,502 | 2,904,484 | 3,093,223 | 3,384,587 | 3,675,069 | 3,883,320 | 3,728,567 | 4,148,910 |
| 229,610 | 309,708 | 286,870 | 342,938 | 363,061 | 386,653 | 423,073 | 459,384 | 485,415 | 466,071 | 518,614 |
| - | - | - | - | - | - | - | - | - | - | - |
| - | - | - | - | - | - | - | - | - | - | - |
| 229,610 | 309,708 | 286,870 | 342,938 | 363,061 | 386,653 | 423,073 | 459,384 | 485,415 | 466,071 | 518,614 |
| 35,799,608 | 35,708,878 | $\underline{\text { 35,459,840 }}$ | $\underline{\text { 35,100,427 }}$ | $\underline{\text { 34,654,939 }}$ | 34,212,922 | 33,783,732 | $\underline{\text { 33,354,432 }}$ | 32,914,854 | 32,429,899 | 32,016,832 |

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Appendix "C3" - No Cost Capital Rate Base

1. No-Cost Capital Total (Schedule "B2")
a) Opening Balance
b) Additions
c) Retirements
d) Closing Balance
2. Accumulated Amortization (Schedule "B1")
a) Opening Balance
b) Additions
c) Retirements
d) Closing Balance
3. Net No-Cost Capital
a) Opening Balance
b) Closing Balance
c) Total
d) Mid Year Balance
4. Net No Cost Capital at Mid Year

| 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ACTUAL | ACTUAL | ACTUAL | ACTUAL | ACTUAL | ACTUAL | ACTUAL | ACTUAL | ACTUAL | PROJECTED | BUDGET |
| 15,844,739 | 16,962,294 | 17,391,791 | 17,391,791 | 17,391,791 | 17,391,791 | 17,391,791 | 17,391,791 | 17,391,791 | 17,391,791 | 17,391,791 |
| 1,117,555 | 429,497 | - | - | - | - | - | - | - |  | - |
| - | - | - | - | - | - | - | - | - | - | - |
| 16,962,294 | 17,391,791 | 17,391,791 | 17,391,791 | 17,391,791 | 17,391,791 | 17,391,791 | 17,391,791 | 17,391,791 | 17,391,791 | 17,391,791 |
| 105,632 | 324,345 | 553,372 | 785,263 | 1,017,153 | 1,249,044 | 1,480,935 | 1,712,825 | 1,944,716 | 2,176,606 | 2,408,497 |
| 218,714 | 229,027 | 231,891 | 231,891 | 231,891 | 231,891 | 231,891 | 231,891 | 231,891 | 231,891 | 231,891 |
| - | - | - | - | - | - | - | - | - | - | - |
| 324,345 | 553,372 | 785,263 | 1,017,153 | 1,249,044 | 1,480,935 | 1,712,825 | 1,944,716 | 2,176,606 | 2,408,497 | 2,640,387 |
| 15,739,108 | 16,637,949 | 16,838,418 | 16,606,528 | 16,374,637 | 16,142,747 | 15,910,856 | 15,678,965 | 15,447,075 | 15,215,184 | 14,983,294 |
| 16,637,949 | 16,838,418 | 16,606,528 | 16,374,637 | 16,142,747 | 15,910,856 | 15,678,965 | 15,447,075 | 15,215,184 | 14,983,294 | 14,751,403 |
| 32,377,056 | 33,476,367 | 33,444,946 | 32,981,165 | 32,517,384 | 32,053,602 | 31,589,821 | 31,126,040 | 30,662,259 | 30,198,478 | 29,734,697 |
| 16,188,528 | 16,738,183 | 16,722,473 | 16,490,582 | 16,258,692 | 16,026,801 | 15,794,911 | 15,563,020 | 15,331,130 | 15,099,239 | 14,867,349 |
| $\underline{\text { 16,188,528 }}$ | $\underline{\text { 16,738,183 }}$ | $\underline{\text { 16,722,473 }}$ | $\underline{\text { 16,490,582 }}$ | $\underline{\text { 16,258,692 }}$ | $\underline{\text { 16,026,801 }}$ | $\underline{\text { 15,794,911 }}$ | $\underline{\text { 15,563,020 }}$ | $\underline{\underline{15,331,130}}$ | 15,099,239 | $\underline{\text { 14,867,349 }}$ |

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Appendix "C4" - Debenture Rate Base

|  | Effective Interest Rate | $\begin{gathered} 2007 \\ \text { ACTUAL } \end{gathered}$ | $\begin{gathered} 2008 \\ \text { ACTUAL } \end{gathered}$ | $\begin{gathered} 2009 \\ \text { ACTUAL } \end{gathered}$ | $\begin{gathered} 2010 \\ \text { ACTUAL } \end{gathered}$ | $\begin{gathered} 2011 \\ \text { ACTUAL } \end{gathered}$ | $\begin{gathered} 2012 \\ \text { ACTUAL } \end{gathered}$ | $2013$ <br> ACTUAL | $2014$ <br> ACTUAL | $\begin{gathered} 2015 \\ \text { ACTUAL } \end{gathered}$ | $\begin{gathered} 2016 \\ \text { PROJECTED } \end{gathered}$ | $\begin{gathered} 2017 \\ \text { BUDGET } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. Debenture \#1 Balance (Appendix "D1" | 4.460\% |  |  |  |  |  |  |  |  |  |  |  |
| a) Opening Balance |  | 2,000,000 | 1,955,181 | 1,908,342 | 1,859,390 | 1,808,230 | 1,754,763 | 1,698,885 | 1,640,487 | 1,579,455 | 1,515,671 | 1,449,011 |
| b) Closing Balance |  | 1,955,181 | 1,908,342 | 1,859,390 | 1,808,230 | 1,754,763 | 1,698,885 | 1,640,487 | 1,579,455 | 1,515,671 | 1,449,011 | 1,379,344 |
| c) Mid Year Balance |  | 1,977,591 | 1,931,762 | 1,883,866 | 1,833,810 | 1,781,496 | 1,726,824 | 1,669,686 | 1,609,971 | 1,547,563 | 1,482,341 | 1,414,177 |
| 2. Debenture \#2 Balance (Appendix "D2" | 4.515\% |  |  |  |  |  |  |  |  |  |  |  |
| a) Opening Balance |  | 17,000,000 | 16,621,954 | 16,226,646 | 15,813,288 | 15,381,057 | 14,929,090 | 14,456,487 | 13,962,304 | 13,445,558 | 12,905,217 | 12,340,204 |
| b) Closing Balance |  | 16,621,954 | 16,226,646 | 15,813,288 | 15,381,057 | 14,929,090 | 14,456,487 | 13,962,304 | 13,445,558 | 12,905,217 | 12,340,204 | 11,749,393 |
| c) Mid Year Balance |  | 16,810,977 | 16,424,300 | 16,019,967 | 15,597,172 | 15,155,073 | 14,692,788 | 14,209,395 | 13,703,931 | 13,175,387 | 12,622,710 | 12,044,798 |
| 3. Total Debt At Mid Year |  |  |  |  |  |  |  |  |  |  |  |  |
| a) Debenture \#1 |  | 1,977,591 | 1,931,762 | 1,883,866 | 1,833,810 | 1,781,496 | 1,726,824 | 1,669,686 | 1,609,971 | 1,547,563 | 1,482,341 | 1,414,177 |
| b) Debenture \#2 |  | 16,810,977 | 16,424,300 | 16,019,967 | 15,597,172 | 15,155,073 | 14,692,788 | 14,209,395 | 13,703,931 | 13,175,387 | 12,622,710 | 12,044,798 |
| d) Total Mid Year Balance |  | 18,788,567 | 18,356,061 | 17,903,832 | 17,430,982 | 16,936,570 | 16,419,612 | 15,879,081 | 15,313,902 | 14,722,950 | 14,105,051 | 13,458,976 |
| 4. Total Debenture Debt at Mid Year |  | $\underline{\text { 18,788,567 }}$ | $\underline{\text { 18,356,061 }}$ | $\underline{\text { 17,903,832 }}$ | $\underline{\text { 17,430,982 }}$ | $\underline{\text { 16,936,570 }}$ | $\underline{\text { 16,419,612 }}$ | $\underline{\text { 15,879,081 }}$ | $\underline{\text { 15,313,902 }}$ | $\underline{\text { 14,722,950 }}$ | 14,105,051 | $\underline{\text { 13,458,976 }}$ |
| 5. Average Cost of Debt at Mid Year |  | 4.509\% | 4.509\% | 4.509\% | 4.509\% | 4.509\% | 4.509\% | 4.509\% | 4.509\% | 4.509\% | 4.509\% | 4.509\% |

Debenture \#1

| LOAN DATA |  | TABLE DATA |  |
| :---: | :---: | :---: | :---: |
| Loan amount: | \$ 2,000,000.00 | Table starts at date: |  |
| Annual interest rate: | 4.460\% | or at payment number:\|1 |  |
| Term in years: | 25 |  |  |
| Payments per year: | 2 |  |  |
| First payment due: | 15-Mar-06 |  |  |
| PERIODIC PAYMENT |  |  |  |
| Entered payment: |  | The table uses the calculated periodic payment amount |  |
| Calculated payment: | \$66,762.18 | unless you enter a value for "Entered payment". |  |
| CALCULATIONS |  |  |  |
| Use payment of: \$66,762.18 |  | Beginning balance at payment 1: | 2,000,000.00 |
| 1st payment in table: | 1 | Cumulative interest prior to payment 1: | 90,194.58 |
| Table |  |  |  |


| No. | Payment <br> Date | Beginning Balance | Interest | Principal | Total Payment | Ending <br> Balance | Cumulative Interest |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 15-Mar-06 | 2,000,000.00 | - | - |  | 2,000,000.00 |  |
|  | 15-Sep-06 | 2,000,000.00 | 90,194.58 | - | 90,194.58 | 2,000,000.00 | 90,194.58 |
| 1 | 15-Mar-07 | 2,000,000.00 | 44,600.00 | 22,162.18 | 66,762.18 | 1,977,837.82 | 134,794.58 |
| 2 | 15-Sep-07 | 1,977,837.82 | 44,105.78 | 22,656.40 | 66,762.18 | 1,955,181.42 | 178,900.36 |
| 3 | 15-Mar-08 | 1,955,181.42 | 43,600.55 | 23,161.63 | 66,762.18 | 1,932,019.79 | 222,500.91 |
| 4 | 15-Sep-08 | 1,932,019.79 | 43,084.04 | 23,678.14 | 66,762.18 | 1,908,341.65 | 265,584.95 |
| 5 | 15-Mar-09 | 1,908,341.65 | 42,556.02 | 24,206.16 | 66,762.18 | 1,884,135.49 | 308,140.97 |
| 6 | 15-Sep-09 | 1,884,135.49 | 42,016.22 | 24,745.96 | 66,762.18 | 1,859,389.53 | 350,157.19 |
| 7 | 15-Mar-10 | 1,859,389.53 | 41,464.39 | 25,297.79 | 66,762.18 | 1,834,091.74 | 391,621.58 |
| 8 | 15-Sep-10 | 1,834,091.74 | 40,900.25 | 25,861.93 | 66,762.18 | 1,808,229.81 | 432,521.83 |
| 9 | 15-Mar-11 | 1,808,229.81 | 40,323.52 | 26,438.66 | 66,762.18 | 1,781,791.15 | 472,845.35 |
| 10 | 15-Sep-11 | 1,781,791.15 | 39,733.94 | 27,028.24 | 66,762.18 | 1,754,762.91 | 512,579.29 |
| 11 | 15-Mar-12 | 1,754,762.91 | 39,131.21 | 27,630.97 | 66,762.18 | 1,727,131.94 | 551,710.50 |
| 12 | 15-Sep-12 | 1,727,131.94 | 38,515.04 | 28,247.14 | 66,762.18 | 1,698,884.80 | 590,225.54 |
| 13 | 15-Mar-13 | 1,698,884.80 | 37,885.13 | 28,877.05 | 66,762.18 | 1,670,007.75 | 628,110.67 |
| 14 | 15-Sep-13 | 1,670,007.75 | 37,241.17 | 29,521.01 | 66,762.18 | 1,640,486.74 | 665,351.84 |
| 15 | 15-Mar-14 | 1,640,486.74 | 36,582.85 | 30,179.33 | 66,762.18 | 1,610,307.41 | 701,934.69 |
| 16 | 15-Sep-14 | 1,610,307.41 | 35,909.86 | 30,852.32 | 66,762.18 | 1,579,455.09 | 737,844.55 |
| 17 | 15-Mar-15 | 1,579,455.09 | 35,221.85 | 31,540.33 | 66,762.18 | 1,547,914.76 | 773,066.40 |
| 18 | 15-Sep-15 | 1,547,914.76 | 34,518.50 | 32,243.68 | 66,762.18 | 1,515,671.08 | 807,584.90 |
| 19 | 15-Mar-16 | 1,515,671.08 | 33,799.47 | 32,962.71 | 66,762.18 | 1,482,708.37 | 841,384.37 |
| 20 | 15-Sep-16 | 1,482,708.37 | 33,064.40 | 33,697.78 | 66,762.18 | 1,449,010.59 | 874,448.77 |
| 21 | 15-Mar-17 | 1,449,010.59 | 32,312.94 | 34,449.24 | 66,762.18 | 1,414,561.35 | 906,761.71 |
| 22 | 15-Sep-17 | 1,414,561.35 | 31,544.72 | 35,217.46 | 66,762.18 | 1,379,343.89 | 938,306.43 |
| 23 | 15-Mar-18 | 1,379,343.89 | 30,759.37 | 36,002.81 | 66,762.18 | 1,343,341.08 | 969,065.80 |
| 24 | 15-Sep-18 | 1,343,341.08 | 29,956.51 | 36,805.67 | 66,762.18 | 1,306,535.41 | 999,022.31 |
| 25 | 15-Mar-19 | 1,306,535.41 | 29,135.74 | 37,626.44 | 66,762.18 | 1,268,908.97 | 1,028,158.05 |
| 26 | 15-Sep-19 | 1,268,908.97 | 28,296.67 | 38,465.51 | 66,762.18 | 1,230,443.46 | 1,056,454.72 |
| 27 | 15-Mar-20 | 1,230,443.46 | 27,438.89 | 39,323.29 | 66,762.18 | 1,191,120.17 | 1,083,893.61 |
| 28 | 15-Sep-20 | 1,191,120.17 | 26,561.98 | 40,200.20 | 66,762.18 | 1,150,919.97 | 1,110,455.59 |
| 29 | 15-Mar-21 | 1,150,919.97 | 25,665.52 | 41,096.66 | 66,762.18 | 1,109,823.31 | 1,136,121.11 |
| 30 | 15-Sep-21 | 1,109,823.31 | 24,749.06 | 42,013.12 | 66,762.18 | 1,067,810.19 | 1,160,870.17 |
| 31 | 15-Mar-22 | 1,067,810.19 | 23,812.17 | 42,950.01 | 66,762.18 | 1,024,860.18 | 1,184,682.34 |
| 32 | 15-Sep-22 | 1,024,860.18 | 22,854.38 | 43,907.80 | 66,762.18 | 980,952.38 | 1,207,536.72 |
| 33 | 15-Mar-23 | 980,952.38 | 21,875.24 | 44,886.94 | 66,762.18 | 936,065.44 | 1,229,411.96 |
| 34 | 15-Sep-23 | 936,065.44 | 20,874.26 | 45,887.92 | 66,762.18 | 890,177.52 | 1,250,286.22 |



| No. | Payment <br> Date | Beginning <br> Balance | Interest | Principal | Total <br> Payment | Ending <br> Balance | Cumulative <br> Interest |
| :---: | :---: | :---: | :---: | :---: | ---: | ---: | ---: |
| 3 | 15-Mar-24 | $890,177.52$ | $19,850.96$ | $46,911.22$ | $66,762.18$ | $843,266.30$ | $1,270,137.18$ |
| 36 | 15-Sep-24 | $843,266.30$ | $18,804.84$ | $47,957.34$ | $66,762.18$ | $795,308.96$ | $1,288,942.02$ |
| 37 | 15-Mar-25 | $795,308.96$ | $17,735.39$ | $49,026.79$ | $66,762.18$ | $746,282.17$ | $1,306,677.41$ |
| 38 | 15-Sep-25 | $746,282.17$ | $16,642.09$ | $50,120.09$ | $66,762.18$ | $696,162.08$ | $1,323,319.50$ |
| 39 | 15-Mar-26 | $696,162.08$ | $15,524.41$ | $51,237.77$ | $66,762.18$ | $644,924.31$ | $1,338,843.91$ |
| 40 | 15-Sep-26 | $644,924.31$ | $14,381.81$ | $52,380.37$ | $66,762.18$ | $592,543.94$ | $1,353,225.72$ |
| 41 | 15-Mar-27 | $592,543.94$ | $13,213.73$ | $53,548.45$ | $66,762.18$ | $538,995.49$ | $1,366,439.45$ |
| 42 | 15-Sep-27 | $538,995.49$ | $12,019.60$ | $54,742.58$ | $66,762.18$ | $484,252.91$ | $1,378,459.05$ |
| 43 | 15-Mar-28 | $484,252.91$ | $10,798.84$ | $55,963.34$ | $66,762.18$ | $428,289.57$ | $1,389,257.89$ |
| 44 | 15-Sep-28 | $428,289.57$ | $9,550.86$ | $57,211.32$ | $66,762.18$ | $371,078.25$ | $1,398,808.75$ |
| 45 | 15-Mar-29 | $371,078.25$ | $8,275.05$ | $58,487.13$ | $66,762.18$ | $312,591.12$ | $1,407,083.80$ |
| 46 | 15-Sep-29 | $312,591.12$ | $6,970.78$ | $59,791.40$ | $66,762.18$ | $252,799.72$ | $1,414,054.58$ |
| 47 | 15-Mar-30 | $252,799.72$ | $5,637.43$ | $61,124.75$ | $66,762.18$ | $191,674.97$ | $1,419,692.01$ |
| 48 | 15-Sep-30 | $191,674.97$ | $4,274.35$ | $62,487.83$ | $66,762.18$ | $129,187.14$ | $1,423,966.36$ |
| 49 | 15-Mar-31 | $129,187.14$ | $2,880.87$ | $63,881.31$ | $66,762.18$ | $65,305.83$ | $1,426,847.23$ |
| 50 | 15-Sep-31 | $65,305.83$ | $1,456.32$ | $65,305.83$ | $66,762.15$ |  | 0.00 |
| $1,428,303.55$ |  |  |  |  |  |  |  |

Appendix "D2" - Debenture 2

Debenture \#2

| LOAN DATA | TABLE DATA |  |
| ---: | ---: | ---: |
| Loan amount: | $\mathbf{\$ 1 7 , 0 0 0 , 0 0 0 . 0 0}$ | Table starts at date: |
| Annual interest rate: | $4.515 \%$ | or at payment number: 11 |
| Term in years: | 25 |  |
| Payments per year: | 2 |  |
| First payment du: | $15-$ Dec-05 |  |
| PERIODIC PAYMENT |  |  |
| Entered payment: | The table uses the calculated periodic payment amount |  |

Calculated payment: $\$ 570,688.44 \quad$ unless you enter a value for "Entered payment".

## CALCULATIONS

| Use payment of: $\$ 570,688.44$ | Beginning balance at payment 1: | $17,000,000.00$ |
| :---: | ---: | ---: |
| 1st payment in table: 1 | Cumulative interest prior to payment 1: | $776,213.72$ |

Table

| No. | Payment Date | Beginning Balance | Interest | Principal | Total Payment | Ending <br> Balance | Cumulative Interest |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 15-Mar-06 | 17,000,000.00 | - | - |  | 17,000,000.00 | - |
|  | 15-Sep-06 | 17,000,000.00 | 776,213.72 | - | 776,213.72 | 17,000,000.00 | 776,213.72 |
| 1 | 15-Mar-07 | 17,000,000.00 | 383,775.00 | 186,913.44 | 570,688.44 | 16,813,086.56 | 1,159,988.72 |
| 2 | 15-Sep-07 | 16,813,086.56 | 379,555.43 | 191,133.01 | 570,688.44 | 16,621,953.55 | 1,539,544.15 |
| 3 | 15-Mar-08 | 16,621,953.55 | 375,240.60 | 195,447.84 | 570,688.44 | 16,426,505.71 | 1,914,784.75 |
| 4 | 15-Sep-08 | 16,426,505.71 | 370,828.37 | 199,860.08 | 570,688.45 | 16,226,645.63 | 2,285,613.12 |
| 5 | 15-Mar-09 | 16,226,645.63 | 366,316.53 | 204,371.92 | 570,688.45 | 16,022,273.71 | 2,651,929.65 |
| 6 | 15-Sep-09 | 16,022,273.71 | 361,702.83 | 208,985.61 | 570,688.44 | 15,813,288.10 | 3,013,632.48 |
| 7 | 15-Mar-10 | 15,813,288.10 | 356,984.98 | 213,703.46 | 570,688.44 | 15,599,584.64 | 3,370,617.46 |
| 8 | 15-Sep-10 | 15,599,584.64 | 352,160.62 | 218,527.82 | 570,688.44 | 15,381,056.82 | 3,722,778.08 |
| 9 | 15-Mar-11 | 15,381,056.82 | 347,227.36 | 223,461.08 | 570,688.44 | 15,157,595.74 | 4,070,005.44 |
| 10 | 15-Sep-11 | 15,157,595.74 | 342,182.72 | 228,505.72 | 570,688.44 | 14,929,090.02 | 4,412,188.16 |
| 11 | 15-Mar-12 | 14,929,090.02 | 337,024.21 | 233,664.23 | 570,688.44 | 14,695,425.79 | 4,749,212.37 |
| 12 | 15-Sep-12 | 14,695,425.79 | 331,749.24 | 238,939.20 | 570,688.44 | 14,456,486.59 | 5,080,961.61 |
| 13 | 15-Mar-13 | 14,456,486.59 | 326,355.17 | 244,333.27 | 570,688.44 | 14,212,153.32 | 5,407,316.78 |
| 14 | 15-Sep-13 | 14,212,153.32 | 320,839.36 | 249,849.08 | 570,688.44 | 13,962,304.24 | 5,728,156.14 |
| 15 | 15-Mar-14 | 13,962,304.24 | 315,199.02 | 255,489.42 | 570,688.44 | 13,706,814.82 | 6,043,355.16 |
| 16 | 15-Sep-14 | 13,706,814.82 | 309,431.33 | 261,257.11 | 570,688.44 | 13,445,557.71 | 6,352,786.49 |
| 17 | 15-Mar-15 | 13,445,557.71 | 303,533.47 | 267,154.98 | 570,688.45 | 13,178,402.73 | 6,656,319.96 |
| 18 | 15-Sep-15 | 13,178,402.73 | 297,502.44 | 273,186.00 | 570,688.44 | 12,905,216.73 | 6,953,822.40 |
| 19 | 15-Mar-16 | 12,905,216.73 | 291,335.27 | 279,353.17 | 570,688.44 | 12,625,863.56 | 7,245,157.67 |
| 20 | 15-Sep-16 | 12,625,863.56 | 285,028.87 | 285,659.57 | 570,688.44 | 12,340,203.99 | 7,530,186.54 |
| 21 | 15-Mar-17 | 12,340,203.99 | 278,580.11 | 292,108.34 | 570,688.45 | 12,048,095.65 | 7,808,766.65 |
| 22 | 15-Sep-17 | 12,048,095.65 | 271,985.76 | 298,702.68 | 570,688.44 | 11,749,392.97 | 8,080,752.41 |
| 23 | 15-Mar-18 | 11,749,392.97 | 265,242.55 | 305,445.89 | 570,688.44 | 11,443,947.08 | 8,345,994.96 |
| 24 | 15-Sep-18 | 11,443,947.08 | 258,347.11 | 312,341.34 | 570,688.45 | 11,131,605.74 | 8,604,342.07 |
| 25 | 15-Mar-19 | 11,131,605.74 | 251,296.00 | 319,392.44 | 570,688.44 | 10,812,213.30 | 8,855,638.07 |
| 26 | 15-Sep-19 | 10,812,213.30 | 244,085.72 | 326,602.73 | 570,688.45 | 10,485,610.57 | 9,099,723.79 |
| 27 | 15-Mar-20 | 10,485,610.57 | 236,712.66 | 333,975.78 | 570,688.44 | 10,151,634.79 | 9,336,436.45 |
| 28 | 15-Sep-20 | 10,151,634.79 | 229,173.16 | 341,515.29 | 570,688.45 | 9,810,119.50 | 9,565,609.61 |
| 29 | 15-Mar-21 | 9,810,119.50 | 221,463.45 | 349,224.99 | 570,688.44 | 9,460,894.51 | 9,787,073.06 |
| 30 | 15-Sep-21 | 9,460,894.51 | 213,579.68 | 357,108.75 | 570,688.43 | 9,103,785.76 | 10,000,652.74 |
| 31 | 15-Mar-22 | 9,103,785.76 | 205,517.95 | 365,170.48 | 570,688.43 | 8,738,615.28 | 10,206,170.69 |
| 32 | 15-Sep-22 | 8,738,615.28 | 197,274.24 | 373,414.20 | 570,688.44 | 8,365,201.08 | 10,403,444.93 |
| 33 | 15-Mar-23 | 8,365,201.08 | 188,844.41 | 381,844.03 | 570,688.44 | 7,983,357.05 | 10,592,289.34 |
| 34 | 15-Sep-23 | 7,983,357.05 | 180,224.29 | 390,464.16 | 570,688.45 | 7,592,892.89 | 10,772,513.63 |

Appendix "D2" - Debenture 2

Debenture \#2

| LOAN DATA | TABLE DATA |  |
| ---: | :--- | :--- |
| Loan amount: $\mathbf{\$ 1 7 , 0 0 0 , 0 0 0 . 0 0}$ | Table starts at date: |  |
| Annual interest rate: | $4.515 \%$ |  |
| Term in years: | 25 |  |
| Payments per year: | 2 |  |
| First payment due: | $115-$ Dec-05 |  |
| PERIODIC PAYMENT |  |  |

Entered payment: The table uses the calculated periodic payment amount

Calculated payment: $\$ 570,688.44 \quad$ unless you enter a value for "Entered payment".
CALCULATIONS

| Use payment of: $\$ 570,688.44$ | Beginning balance at payment 1: | $17,000,000.00$ |
| ---: | ---: | ---: |
| 1st payment in table: 1 | Cumulative interest prior to payment 1: | $776,213.72$ |

Table

| No. | Payment <br> Date | Beginning <br> Balance | Interest | Principal | Total <br> Payment | Ending <br> Balance | Cumulative <br> Interest |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 35 | 15-Mar-24 | $7,592,892.89$ | $171,409.56$ | $399,278.88$ | $570,688.44$ | $7,193,614.01$ | $10,943,923.19$ |
| 36 | 15-Sep-24 | $7,193,614.01$ | $162,395.84$ | $408,292.60$ | $570,688.44$ | $6,785,321.41$ | $11,106,319.03$ |
| 37 | 15-Mar-25 | $6,785,321.41$ | $153,178.63$ | $417,509.81$ | $570,688.44$ | $6,367,811.60$ | $11,259,497.66$ |
| 38 | 15-Sep-25 | $6,367,811.60$ | $143,753.35$ | $426,935.09$ | $570,688.44$ | $5,940,876.51$ | $11,403,251.01$ |
| 39 | 15-Mar-26 | $5,940,876.51$ | $134,115.29$ | $436,573.15$ | $570,688.44$ | $5,504,303.36$ | $11,537,366.30$ |
| 40 | 15-Sep-26 | $5,504,303.36$ | $124,259.65$ | $446,428.79$ | $570,688.44$ | $5,057,874.57$ | $11,661,625.95$ |
| 41 | 15-Mar-27 | $5,057,874.57$ | $114,181.52$ | $456,506.92$ | $570,688.44$ | $4,601,367.65$ | $11,775,807.47$ |
| 42 | 15-Sep-27 | $4,601,367.65$ | $103,875.87$ | $466,812.58$ | $570,688.45$ | $4,134,555.07$ | $11,879,683.34$ |
| 43 | 15-Mar-28 | $4,134,555.07$ | $93,337.58$ | $477,350.86$ | $570,688.44$ | $3,657,204.21$ | $11,973,020.92$ |
| 44 | 15-Sep-28 | $3,657,204.21$ | $82,561.40$ | $488,127.05$ | $570,688.45$ | $3,169,077.16$ | $12,055,582.32$ |
| 45 | 15-Mar-29 | $3,169,077.16$ | $71,541.92$ | $499,146.52$ | $570,688.44$ | $2,669,930.64$ | $12,127,124.24$ |
| 46 | 15-Sep-29 | $2,669,930.64$ | $60,273.68$ | $510,414.76$ | $570,688.44$ | $2,159,515.88$ | $12,187,397.92$ |
| 47 | 15-Mar-30 | $2,159,515.88$ | $48,751.07$ | $521,937.36$ | $570,688.43$ | $1,637,578.52$ | $12,236,148.99$ |
| 48 | 15-Sep-30 | $1,637,578.52$ | $36,968.34$ | $533,720.11$ | $570,688.45$ | $1,103,858.41$ | $12,273,117.33$ |
| 49 | 15-Mar-31 | $1,103,858.41$ | $24,919.60$ | $545,768.84$ | $570,688.44$ | $558,089.57$ | $12,298,036.93$ |
| 50 | 15-Sep-31 | $558,089.57$ | $12,598.87$ | $558,089.57$ | $570,688.44$ |  | 0.00 |
|  |  | $12,310,635.80$ | $17,000,000.00$ | $29,310,635.80$ |  |  |  |



North Red Deer
River Water
Services
Commission

## Memorandum

TO: Commission Board Members
FROM: Michael Minchin, Administrator
DATE: June 16, 2017

5432 56 ${ }^{\text {th }}$ Avenue Lacombe, Alberta T4L 1E9

REF: 47/154 (2017)

## PURPOSE:

To present for the Boards consideration, a recommended proposal for the assessment of the Commission's Supervisory Control and Data Acquisition (SCADA) systems.

## BACKGROUND:

The system that monitors the regional water line, reservoir levels and pumps was installed at the time of construction. Those systems are now obsolete and some components are beginning to fail. Although repairs are still possible, ongoing support is limited.

In the 2017 operating budget, the Board approved funding for an assessment of the Commission's existing system with the intent of completing a design and budget for the ultimate replacement of the existing system.

A request for proposal (RFP) was issued on May 11, 2017 and closed on May 25, 2017.
The Proposals were to cover the following scope of work:

- Assess the 10 year old SCADA system;
- Recommend option(s) for upgrading the system;
- Costs for the proposed upgrades
- Site visits are recommended and will be coordinated with interested providers;
- Provide a final report showing the state of the system, options to upgrade and costs associated with these upgrades.


## ISSUE ANALYSIS:

The Commission received 5 proposals before the May 25, 2017 deadline.
The proposals were evaluated by staff based on the following criteria:

> - Cost 40\%

- Philosophy and Proposed Execution 30\%
- Experience on similar projects 20\%
- References \& Schedule 10\%

Total 100\%
Based on these criteria the 5 submissions received the following score:

| Vendor |  | Score |
| :--- | :--- | :--- |
| AWL Global |  | 56 |
| Eramosa |  | 96 |
| MPE |  | 95 |
| Stantec |  | 96 |
| Quintessential |  | 87 |

The two highest scored proposals have slightly different costs. The Eramosa proposal came in with a cost of $\$ 11,000$ while Stantec's proposal was $\$ 15,390$. The next highest scored proposal was MPE with a cost of $\$ 12,000$.

Stantec's and MPE's proposals work on an 8 week schedule and both proposal to look at a number of SCADA's systems. Eramosa's proposal is on a 12 week schedule and only includes evaluation of one SCADA system.

Stantec has the most familiarity with the Commission's SCADA and communication systems. However Administration could support any of the three proposals.

## FINANCIAL IMPLICATIONS:

The budget for the project is pegged at $\$ 30,000$.

## LEGISLATIVE AUTHORITY:

- n/a


## ALTERNATIVES:

1. Award the proposal to Stantec, the preferred vendor.
2. Award the proposal to the Eramosa, next highest scored proponent and the lowest cost proponent of the top 3.
3. Award the proposal to MPE which had the next highest score and lower cost than the preferred vendor.

## ATTACHMENTS:

n/a

## ACTION/RECOMMENDATION:

THAT the Board award the 2017 SCADA assessment contract to Stantec Consulting subject to the cost and timelines outlined in their proposal.

