

MINUTES

PUBLIC UTILITIES COMMISSION

PUC BOARDROOM
325 GRAND AVE E

SEPTEMBER 22, 2005
4:00 PM

PRESENT: Chairman Bryon Fluker, Commissioners Janet McGuigan, Jim Brown, Tom McGregor, Joe Faas, Mayor Diane Gagner, Acting CAO Gerry Wolting, General Manager, Jack Sonneveld, Director, Scott Prail, Facility Systems Manager, Rob Bernardi, Dino Burrato and Jerome Trudell Stantec representatives.

ABSENT: Commissioner Frank Vercouteren.

1. **CALL TO ORDER**

Chairman Bryon Fluker called the meeting to order at 4:05 PM.

2. **DECLARATION OF PECUNIARY INTEREST**

Commissioner Faas declared pecuniary interest with report 4(f).

3. **APPROVAL OF MINUTES**

- a) June 16, 2005
- b) August 8, 2005
- c) September 6, 2005

Moved by Commissioner Brown and seconded by Commissioner McGregor.

“That the minutes of June 16, 2005, August 8, 2005 and September 6, 2005 Regular Meeting be approved.”

Motion carried

4. **REPORTS**

- a) Sanitary Sewer Master Plant Update Presentation – 32 communities (Stantec)

Stantec reps. Dino Burrato and Jerome Trudell did a power point presentation on the Sanitary Sewer Master Plan Update Study. The study will be used as a backup for applications for Federal funding.

Moved by Mayor Gagner and seconded by Commissioner McGregor.

“To receive this presentation as information.”

Motion carried

b) Update on Water/Wastewater Billing Adjustments

MUNICIPALITY OF CHATHAM-KENT PUBLIC UTILITIES COMMISSION

To: PUC Chairperson and Commissioners
From: Jim Hogan, Chatham-Kent Utility Services
Date: September 20, 2005
Subject: Billing Adjustments

Objective:

To update the Commission on water/wastewater billing adjustments that will occur during the remainder of the year.

Discussion:

Issue

Through additional analysis this year it has been identified that a number of customers have been billed zero consumption for a period of time. Due to this information a number of customers will begin to receive adjusted bills. The number of customers with zero consumption is 209, with 143 occurring in the past 3 years (Schedule 1). There are approximately 38,000 water customers. Therefore the percentage of customers with stopped meters is 0.5%.

Why does it occur?

Zero consumption can occur when the remotes are faulty or damaged; the meter reader will then receive zero consumption. In most cases the meter inside the house is running accurately.

Billing procedures

In the billing process the Customer Information System (CIS) will perform a review of the current reading with the last reading, a variance report. The Biller will review the variance report to check those bills that have a significant change such as a zero consumption read. This step has been missed.

If the zero read is missed the first time it is hard to identify in the future periods because the CIS will only do a comparison to the most recent bill, if there is no difference then the bill is not put on the variance report. That is why some of these customers have been receiving bills with zero consumption for sometime.

Revenue impact

An estimate of the revenue impact for these customers is a total of \$102,100 from the period of 1996 to 2005 (Schedule 2). The largest impact is in 2004 and 2005 with \$27,500 and \$31,200 respectively.

Billing adjustments

The service Reps will be going to all 209 homes over the next few months to change the remotes or the meters. A correct consumption will be taken from the customers' meter.

The customers will be backed billed for the consumption that they used during this period by prorating consumption in each month and billed at the rates that were in place at that time. A letter will be sent to the customers along with a detailed calculation of the adjustments. Customers will be given additional time to pay their bill based upon prior discussions with the Customer Account Representatives.

New Billing procedures

In making improvements to the billing procedures to reduce errors and improve the billing services the following items have been implemented;

- Upgrade to the CIS was done in the spring. The upgrades for the water billings were significant. The CIS will compare the current meter reads to the last bill and the same period as last year.
- When estimating water consumption, when required, the CIS will look at the last bill as well as the bill the same time last year.
- A new zero consumption report is printed when billing each cycle. This is reviewed by the Biller and when required a Service Rep is sent to the home to verify the reading.

Billing issues for the period January-July 2005

It should be noted that during the period January to July, 2005, twenty eight (28) residential customer billings have been adjusted for a total of approximately \$9,800. There were also five (5) commercial accounts that required adjustments totaling approximately \$60,500.

The issue with the commercial accounts relates back to the amalgamation. Some of the meters have been recorded in the billing system with fewer dials than there actually is on the meter.

The largest commercial account billing issue totaled \$45,539.86 and arrangements have been made repay the total amount over a twenty four month period

Lighthouse Area Water Supply:

There has been an error with the water billing which goes back to 2001. The Chatham-Kent Water Rate Policy that was approved by the PUC includes that all non-C-K users be billed at 1.25 times the Chatham-Kent Rate. The new billing system also allowed a discount to the Lakeshore account that is only available to the large industrial/commercial and greenhouse operations.

These issues resulted in the Lakeshore account being under-billed. PUC administration met Lakeshore to review the issue and they have paid back charges in the amount of \$48,905.18.

Prepared by:

Reviewed by:

Jim Hogan
Chatham-Kent Utility Services

Jack Sonneveld
Senior Level Advisor,
Chatham-Kent PUC

Schedule 1 – Number of customers with zero consumption

Year meter stopped:	Number of meters:
2005	33
2004	74
2003	36
2002	16
2001	10
2000	19
1999	7
1998	4
1997	9
1996	1
Total	209
Total 2003- 2005	143

Schedule 2 – Revenue Impact

Year:	Revenue:
2005	\$31,200
2004	\$27,500
2003	\$15,400
2002	\$9,500
2001	\$7,700
2000	\$4,600
1999	\$3,100
1998	\$2,200
1997	\$800
1996	\$100
Total	\$102,100

Moved by Commissioner Brown and seconded by Commissioner Faas.

“That the report be deferred to the next Commission meeting when a representative from Chatham-Kent Utility Service can be in attendance.”

Motion carried

c) Community of Ridgetown Water Well Study Upgrades

MUNICIPALITY OF CHATHAM-KENT

PUBLIC UTILITIES COMMISSION

TO: PUC Chairperson and Commissioners
FROM: Jack Sonneveld,
Senior Level Advisor, Chatham-Kent PUC
DATE: September 22, 2005
SUBJECT: Community of Ridgetown Potable Water Well Fields

RECOMMENDATIONS

It is recommended that:

1. The annulus area around the wells be backfilled with bentonite material and thus provide significant water quality protection for the groundwater resource.
2. The PUC develop additional water supply wells for the Ridgetown Water System.
3. The existing aeration/methane gas removal systems be replaced.
4. The Erie Wellfield collector/transmission watermain be replaced and upgraded from 150 mm to 200 mm.
5. The Harris and Hitch Wells be cleaned through a regime of well screen physical and/or chemical cleaning.
6. 225 m³ of water reservoir storage be constructed at the Scane Wellfield and 760m³ of additional storage be constructed at the Erie Street location.
7. Administration proceed with an application to the Ministry of the Environment to unitize the Permits To Take Water for the Ridgetown Well Supply

BACKGROUND

The Ridgetown area potable drinking water supplies are being drawn from a moderately deep aquifer located beneath the southeastern section within the Municipality of Chatham-Kent. These groundwater-based, drinking water supplies are generated through wells located in two well fields, one (Erie Street Well Field) located within the community Ridgetown and the second, (Scane Well Field) associated with the southwest corner of Ridgetown. The Chatham-Kent Public Utilities Commission (PUC) is responsible for the supply, treatment and distribution of this municipal water in Ridgetown.

A Public Presentation was held in the community of Ridgetown facilitated by the PUC and Dillon Consulting Limited (Dillon) on October 27, 2004. Several key hydrogeologic and water supply issues were identified at the presentation that necessitated action by the PUC.

The quantification of aquifer capacity was required in order for the PUC to appropriately plan for future water infrastructure improvements. It was important to determine if additional groundwater resources can be developed within close proximity to Ridgetown, or whether future supplies (ground water or surface water) will be needed. To achieve this, it was essential to collect the necessary hydrogeologic data and provide a quantification of the local aquifer's production capacity.

The evaluation of wellhead integrity was also required because it was historically noted that construction methodologies used to complete several of the Ridgetown wells, may have resulted in potentially hazardous conditions.

The development of backup supply wells became critical to ensure a consistent and secure supply of water is always available for Ridgetown. At the present time, the production capacity of the six wells is sufficient (with backup storage) to meet the needs of the Ridgetown system. However, the Ministry of the Environment (MOE) dictates that additional backup sources of supply must be available to meet system demand in times when all wells may not be in production.

The main purpose of the work was to review the requirements for upgrades to the existing system to meet safety requirements and also provide the PUC with the necessary information regarding the long-term viability of the groundwater resource.

COMMENTS

Dillon Consulting Limited has completed a detailed study of the Ridgetown Wellfields that included the following areas of review:

I. Ridgetown Area Geology

- a. Study area
- b. Geology
- c. Existing wells

II. Groundwater Production

- a. Cumulative production
- b. Scane wellfield production
- c. Layne/Harris/Hitch (Erie Street) production

III. Wellfield Water Levels

- a. Scane Wellfield hydrographs
- b. Erie Street Wellfield hydrographs
- c. LTVCA monitoring data.

IV. Well Structural Conditions

- a. Scane Wells
- b. Well 1A
- c. Harris Well
- d. Hitch Well

The review of the geologic and hydrogeologic conditions provided several indications of where improvements could be made to improve the Ridgetown potable water supply and distribution system.

Additional Water Sources

The development of additional water supplies in the most economic manner was reviewed. The options considered included: 1) development of a back up well in both the Scane and Erie Wellfields, 2) connection with the PUC-owned wells located approximately 3 kilometers west of town, and 3) connection to regional water mains in both Blenheim and Thamesville. The costs for all three scenarios were developed to allow a comparison of the best alternatives available to the PUC and the residents of Ridgetown.

As outlined below, Scenario #1 includes development of a new back-up well in both the Erie and Scane wellfields, as well as several operational upgrades. Scenario #2 entails interconnecting the existing wells controlled by the PUC and most of the operational upgrades to the Erie and Scane Fields. Scenario #3 entails costs generated by the Master Plan for connecting to the regional distribution systems at either Blenheim or Thamesville.

The estimated costs for the three scenarios are:

Scenario #1:	\$ 759,000
Scenario #2:	\$ 1,824,000
Scenario #3 (Thamesville):	\$ 2,950,000
Scenario #3 (Blenheim):	\$ 5,900,000

A detailed description of the activities and costs associated with all scenarios has been developed below.

Scenario #1: Back-up Well Development Option

The following sections provide a brief description of the proposed activities under Scenario #1.

Well Structural Review Hitch (Well #2) and Harris (Well #3):

The construction of the existing wells involved drilling a large diameter (24") down to within a few feet of the aquifer and then drilling the well down through the large diameter hole (annulus) and down into the aquifer. The area around the well casing was backfilled with gravel. It is recommended that the annulus area at the Hitch (Well #2) and Harris (Well #3) be backfilled with bentonite material.

This will provide significantly increased water quality protection for the groundwater resource. The existing wellheads will also be raised above the exterior surface elevation.

Rehabilitation of Hitch (Well #2) and Harris (Well #3) Wells:

The pumping levels have declined in relation to the static water levels in the aquifer. This pattern is generally indicative of a decrease in well efficiency, whereby more energy is required to draw water into the well, and is generally reflected in a declining pumping water level. This occasionally occurs in older wells and can be corrected through a regime of well screen physical and/or chemical cleaning.

Backup Well Drilling:

While the incremental increase in water production resulting from the redevelopment of the Harris and Hitch wells will provide some additional water supplies, it is only recommended that the PUC develop additional water supplies to meet the MOE requirements for additional capacity.

The development of an additional well within each of the wellfields will provide suitable backup capacity and the potential for increasing water supplies in the future. These wells can be constructed within the existing infrastructure without significant capital expenditures. The placement of the new wells in close proximity to the existing infrastructure will limit the capital expenditures required to tie the new wells into the distribution system. The prospective locations of the backup wells will be determined following the identification of property ownership within the two fields and completing the geophysical testing.

Erie Wellfield Transmission Main Replacement

In order to efficiently continue to operate the wellfields, the existing collector 150 mm water main also requires replacement and should be upgraded to 200 mm. The transmission main connects the Harris and Hitch wells to the water treatment facilities located near the Layne well. There were 12 major breaks in this line during 2004. The total length of the transmission main and connector lines is approximately 1500 meters. The estimated cost of this line replacement is \$200,000.

Water Reservoirs:

The review of the water supply also identified additional potable water storage requirements. The additional storage is required to:

- provide adequate storage to meet provincially mandated CT (disinfection contact time) requirements
- perform maintenance/cleaning that is required annually
- provide additional storage for fire fighting purposes.

It is recommended that 225 m³ (60,000 US gallons) storage be constructed at the Scane Wellfield and 760 m³ (200,000 US gallons) of additional storage be constructed at the Erie Street location. The estimated cost is \$ 419,000 and this includes the additional pump capacity required to assist with fire flow demands.

Methane Gas Removal Equipment:

The previous evaluations completed by Dillon Consulting Limited confirmed that the existing aeration equipment does not adequately remove the methane gas found in the ground water. It is recommended that the aeration equipment be upgraded. The estimated cost for an upgraded system is \$ 30,000.

Permit To Take Water:

The existing Permits To Take Water (PTTW) create a number of minor issues, particularly relating to the number of hours for taking water. It is recommended that the Ministry of the Environment be approached to investigate the unitizing each of the PTTW for the wellfields.

In essence, when a production field is unitized, each of the permitted values are cumulated into a single production permit, thus allowing pumping based on the best schedule according to the PUC's economics or operational/maintenance schedules, as long as the total values are not exceeded.

This would allow the PUC to efficiently integrate the additional wells within the field and develop a pumping scenario (i.e. order of pump turn-on to meet increasing demand), or well idle schedule which fits the PUC's or community's specific needs.

Upgrades in System Telemetry

In order to efficiently operate and monitor the water production and treatment system several upgrades in the system telemetry will be required. This includes automated dialers and SCADA equipment to monitor water quality and quantity. The estimated cost of these upgrades is \$15,000.

Summary

In total the activities and cost components detailed above total to \$759,000.

Scenario #2: Connection of Existing PUC Wells Option

As noted previously, the PUC controls two wells, located approximately 3 kilometers west of town. This scenario identifies the process and estimated costs for connecting these wells to the Ridgetown distribution system.

Well Development

While the wells have been drilled, they would need to be outfitted with the appropriate pumps, controls and housing. We estimate the cost of these improvements to be \$25,000.

Connector and Transmission Main

The two wells are separated by approximately 1000 meters. Since it will be more economical to build a single water treatment facility, the construction of a connector main (estimated cost \$75,000) is required. Once the water has been treated, it will be transported through a three kilometer transmission main to interconnect to the existing Ridgetown distribution system. The estimated cost for the transmission main is \$500,000.

Water Treatment

At the well site, we have planned for the construction of methane removal and chlorination to address water potability. The estimated cost for these facilities is \$65,000.

High Lift Pump

The need for a large-scale pump is based upon the significant distance through which the water needs to be pumped. The cost for the construction of a pump station to service these wells is estimated to be \$100,000.

Electricity and System Controls

The site will require the development of three-phase power (estimated cost \$100,000) and automated system monitoring and controls (estimated cost \$25,000).

Water Storage

In order for the system to operate effectively, the development of a water storage tank is necessary. The cost for this feature is \$250,000.

Erie/Scane Wellfield Improvements

While the development of the distant wells does satisfy the need for an increase in water supplies, it will still be necessary to complete most of the wellfield improvements discussed in Scenario #1 (except for drilling the back-up wells). The cost for these improvements is estimated to be \$684,000.

Summary

In total the activities and cost components detailed above total to \$1,824,000.

Master Plan Alternatives:

The Master Plan for Water and Wastewater identified the possibility of supplying potable water from Blenheim to Ridgetown and ultimately to Thamesville and Bothwell. The estimate costs were:

- Blenheim to Ridgetown -\$5.9 million
- Ridgetown to Thamesville -\$2.95 million
- Thamesville to Bothwell (including Moravian on the Thames)- \$3.2 million.

Based on the estimated cost of \$759,000 to upgrade the existing Ridgetown well supply system, it is recommended that the East Chatham-Kent water supply issues be reviewed during the updating of the Master Plans which is tentatively scheduled for 2006.

COMMUNITY STRATEGIC PLAN

The recommendation in this report supports the following objectives and strategic directions:

A: Health- We are a healthy community

A1: Provide sufficient capacity to sustain community health and economic growth

B. Economy-We are a prosperous community

B3: Maintain and enhance new and existing infrastructure to support economic and smart growth opportunities

C. Environment-We are a green community

C2: Establish standards for environment excellence

Desired Outcomes / Proposed Activities

- Advocate for essential provincial and federal investment and equitable tax policies to support financing and effective operation of sustainable transportation systems, water, sewer and waste management services.
- Support new infrastructure investments and modernize existing infrastructure.
- Maintain and improve the quantity and quality of ground and surface waters
- Increase the number of homes, businesses and farms on municipal water and sewage
- Establish proactive approach to maintain integrity of our lakes and rivers

The recommendation will not adversely impact the remainder of the Community

CONSULTATIONS

The Manager, Water & Wastewater Services South, worked directly with Dillon Consulting during the review of the Ridgetown Wellfield Water Supply.

The Ridgetown Potable Water Quantity and Quality Public Meeting was held on June 28, 2005 at the Ridgetown High School.

FINANCIAL IMPLICATIONS

The total projected cost for the entire undertaking is estimated to be \$759,000. The major expenditures (\$649,000) will not occur until 2006 and will be included in the Water Budget for 2006.

The telemetry upgrades, well remediation, construction of the backup wells and discussion with the Ministry of the Environment on the revised Permit To Take Water will be completed in 2005. \$110,000 is included in the 2005 Budget.

The recommended expenditures are summarized in the following table:

Ridgetown Well Supply Upgrades Summary of Costs	
Description:	Estimated Cost:
Telemetry Upgrades	\$ 15,000.00
Well remediation	\$ 20,000.00
Backup wells	\$ 75,000.00
Aeration equipment upgrades	\$ 30,000.00
Storage systems/pumps	\$419,000.00
Replacement collector main	\$200,000.00
Total	\$759,000.00

Prepared by:

Jack Sonneveld
Senior Level Advisor,
Chatham-Kent PUC

Reviewed by:

Scott Praill, C.E.T., B. Comm.
General Manager,
Chatham-Kent PUC

Reviewed by:

Gerry Wolting, B.Math., CA
Acting CAO, Chatham-Kent

Moved by Commissioner Brown and seconded by Commissioner Gagner.

“That the annulus area around the wells be backfilled with bentonite material and thus provide significant water quality protection for the groundwater resource.

The PUC develop additional water supply wells for the Ridgetown Water System.

The existing aeration/methane gas removal systems be replaced.

The Erie Wellfield collector/transmission watermain be replaced and upgraded from 150 mm to 200 mm.

The Harris and Hitch Wells be cleaned through a regime of well screen physical and/or chemical cleaning.

225 m³ of water reservoir storage be constructed at the Scane Wellfield and 760m³ of additional storage be constructed at the Erie Street location.

Administration proceed with an application to the Ministry of the Environment to unitize the Permits To Take Water for the Ridgetown Well Supply.”

Motion carried

d) Upgrading of Membranes at the South Kent Water Plant

MUNICIPALITY OF CHATHAM-KENT

PUBLIC UTILITIES COMMISSION

TO: PUC Chairperson and Commissioners
FROM: Jack Sonneveld
Senior Level Advisor, Chatham-Kent PUC
DATE: September 22, 2005
SUBJECT: Upgrading of the Membranes at the South Water Treatment Plant

RECOMMENDATIONS

It is recommended that:

1. The upgrading of the membranes at the South Chatham-Kent Water Treatment Plant be approved as part of the Extended Warranty and Membranes Sub module Warranty.
2. The Chatham-Kent PUC share (\$187,488 not including taxes) of the \$803,520 total cost be paid from the South Water Treatment Capital Account.

BACKGROUND

The South Water Treatment Plant started operating in 2003. The original plant design was for 5.0 IMGD. The plant has experienced significant problems meeting flow requirements due to fouling of the membranes. The current maximum flow is 3.0 IMGD. The very fine silica sand plugs the membranes and cannot be easily removed from the conventional membranes.

U.S. Filter/Memcor and Totten Sims Hubicki Associates have been working with the plant staff to resolve the outstanding problems.

COMMENTS

U.S. Filter/Memcor installed a pilot testing unit at the South WTP and analyzed the operations and fouling of the filters for approximately 13 months.

Administration met with representatives of US Filter on June 1, 2005 at the South Chatham-Kent Water Treatment Plant to address both the near term capacity issues as well as providing a long term solution to providing 5 mgd of filtered water capacity with all 6 membrane skids in operation. The recommended solution consists of three parts:

1. Evaluate an alternate membrane cleaning regime. During our pilot study U.S. Filter tested alternate cleaning chemicals and found one to be more effective than current protocol. The necessary documentation that would permit evaluation of this membrane cleaning chemical has been submitted.
In the event this alternate membrane cleaning regime proves to be sufficiently effective to be considered as a regular cleaning option, an amendment to the C of A may be necessary. This alternate membrane cleaning regime is not being suggested as a long term answer to the treatment capacity issues, but it could provide a boost to capacity in the near term.
2. Reprogram the controls to eliminate inadvertent shut downs and other "mysterious" events. The control logic is designed to maximize membrane life with set points that shut off a skid in the event of a condition occur that may cause damage the membranes. Rather than attempt to control the system to maximize membrane life, priority for control will be to maximize productivity until new membranes can be supplied to replace the existing set.
3. Replace the existing set of M10V membrane modules with a new set of L10V modules. To do this requires conversion of the system from CMF to CMF-L. CMF-L is US Filter/Memcor's second generation of pressurized membrane technology and is what has been operating as a pilot at the plant for the last 13 months. Conversion to CMF-L is an upgrade to current plant performance. Not only will the full 5 mgd of capacity be provided (actual capacity approaches 6 mgd) but the system will do so using less power, less chemical, less maintenance labor and generate less backwash for waste disposal.

U.S. Filter/Memcor has submitted a detailed proposal for converting the plant to CMF-L and the proposal is being offered under the terms of the existing 10 year Extended Performance and Membrane Sub module Warranty.

The recommended modifications to the water treatment system will provide the required flows and also use less power, less chemical, less maintenance labor and generate less backwash for waste disposal.

U.S. Filter/Memcor is committed to supporting Chatham-Kent to achieve its treatment goals with our membrane products. The CMF-L is the best answer to providing a long term solution for meeting the capacity requirements at the South Chatham-Kent WTP. They will also be supplying 48 man-days in 10 trips of manufacturer's services to ensure the proper installation and commissioning of the upgrades. The services will include:

- On-site supervision for delivery, installation and per-commissioning
- On-site services for plant commissioning and acceptance testing
- Training of operators and technical staff.

Summary of benefits:

1. Restoration of plant capacity, with the potential to re-rate the plant in the future to 25,500 m³/d (5.6 IMGD)
2. Reduction in back-wash water volume
3. Reduction in energy use due to lower pressure/volume of air requirements and reduced backwash sweep water flows
4. The installation of a complete set of new membranes would defer the cost of the membrane replacement from the originally proposed date of May 2013 to September 2015.

It is recommended that the upgrading of the membranes at the South Chatham-Kent Water Treatment Plant be approved as part of the Extended Warranty and Membranes Sub module Warranty and that the Chatham-Kent PUC share (\$187,488.00 not including taxes) of the \$803,520.00 total cost for replacement membranes be paid from the South Water Treatment Capital Account.

COMMUNITY STRATEGIC PLAN

The recommendations in this report support the following objectives and strategic directions:

A: Health- We are a healthy community

A1: Provide sufficient capacity to sustain community health and economic growth

B. Economy-We are a prosperous community

B3: Maintain and enhance new and existing infrastructure to support economic and smart growth opportunities

C. Environment-We are a green community

C2: Establish standards for environment excellence

Desired Outcomes / Proposed Activities

- Advocate for essential provincial and federal investment and equitable tax policies to support financing and effective operation of sustainable transportation systems, water, sewer and waste management services.
- Support new infrastructure investments and modernize existing infrastructure.
- Maintain and improve the quantity and quality of ground and surface waters
- Increase the number of homes, businesses and farms on municipal water and sewage
- Establish proactive approach to maintain integrity of our lakes and rivers

The recommendations will not adversely impact the remainder of the Community

CONSULTATIONS

The Manager, Water & Wastewater Services, South worked directly with Totten Sims Hubicki Associates and U.S Filter/Memcor representatives during the review of the existing operations and pilot testing.

FINANCIAL IMPLICATIONS

The total projected cost for the entire undertaking is estimated to be \$803,520.00. Chatham-Kent share will be \$187,488.00. US Filter/Memcor will be supplying 48 man-days in 10 trips of manufacturer's services to ensure the proper installation and commissioning of the upgrades.

The Province of Ontario recently announced that it had reviewed the Chatham-Kent OSTAR submission and increased the Provincial allocation to \$6,665,942.00 from \$6,450,772.74. The \$215,169.26 increase in funding for the OSTAR Projects is more than adequate to cover these costs. The Federal Government is also reviewing their share of the OSTAR allocation.

Prepared by:

Reviewed by:

Jack Sonneveld
Senior level Advisor,
Chatham-Kent PUC

Scott Praill, C.E.T., B. Comm.
General Manager,
Chatham-Kent PUC

Reviewed by:

Gerry Wolting, B.Math., CA
Acting CAO, Chatham-Kent

Moved by Mayor Gagner and seconded by Commissioner Faas.

“That the upgrading of the membranes at the South Chatham-Kent Water Treatment Plant be approved as part of the Extended Warranty and Membranes Sub module Warranty.

The Chatham-Kent PUC share (\$187,488 not including taxes) of the \$803,520 total cost be paid from the South Water Treatment Capital Account.”

Motion carried

e) Queen's Line Watermain Extension

**MUNICIPALITY OF CHATHAM-KENT
Public Utilities Commission**

TO PUC Chairperson and Commissioners

FROM Jack Sonneveld,
Senior Level Advisor, Chatham-Kent PUC

DATE September 22, 2005

SUBJECT Watermain Extension Contract No. T05-170
(Queen's Line and Davidson Road Watermain, Tilbury)

RECOMMENDATIONS:

It is recommended that:

1. The tender for the Queen's Line and Davidson Road Watermain Extension, Contract No. T05-170, be awarded to Sherway Contracting (Windsor) Limited at the tendered cost of \$279,460.46 including GST.
2. The Chairperson and the General Manager of the Chatham-Kent Public Utilities Commission be authorized to sign the necessary agreements.

BACKGROUND

The Chatham-Kent Public Utilities Commission received a number of letters requesting that the PUC consider an upgrade to the water supply to the area east of the 18 Wheeler Truck Stop on Queen's Line. The consumers are currently supplied with potable water via back yard services from a watermain on Wheeler Line.

There are no fire hydrants in the area and the local industries are assessed very high insurance rates.

Administration requested EarthTech Inc. to review the possibility of servicing the Queen's Line area from the Wheeler Line easterly approximately 713m to provide adequate fire servicing and allowance for future growth in the area.

The Preliminary review included:

- Replacing ten (10) water services.
- Tie-in to existing system at Wheeler Line.
- Installing the new watermain in the north Boulevard of Queen's Line.
- Installation of five (5) fire hydrants.
- 300 mm and 400 mm servicing options.

The estimated project cost was \$211,100.00.

The Chatham-Kent PUC approved proceeding with the detailed design and tendering of the Queen's Line Watermain Project on February 24, 2005.

COMMENTS

Todgham & Case Associates completed the detailed design and tendered the work. During the detailed design it was determined that the watermain should be looped with the existing watermain on Wheeler Line. This avoids another major dead-end and enhances the overall security of the water supply in the area.

The Purchasing Officer received four (4) tenders for Contract No. T05-170 on Tuesday, September 13, 2005. The results are as follows:

Queen's Line/Davidson Road Waterline Extension Contract No. T05-170		
Rank	Tenderer	Amount
1	Sherway Contracting (Windsor) Ltd. 5390 Outer Drive, Windsor Ontario	\$279,460.46
2	G.W. Clarke Drainage RR # 1, Blenheim, Ontario	\$326,484.37
3	Henry Heyink Construction Chatham, Ontario	\$369,150.00
4	Delway Contractors Ltd. RR # 8, Chatham, Ontario	\$393,546.00

The tenders have been reviewed by the Consultant and all tenders were found to be complete in all respects. Their recommendation letter in support of the low tenderer is attached.

It is recommended that the Chatham-Kent PUC award Contract T05-170, Queen's Line and Davidson Road Watermain Project, to Sherway Contracting (Windsor) Limited in the amount of \$279,460.46 including GST

COMMUNITY STRATEGIC PLAN

The recommendations in this report support the following objectives and strategic directions:

- A: Providing a safe, caring and healthy environment
- A2: Provide adequate infrastructure to support, enhance and sustain existing and future growth.

Expected Results:

Increase user satisfaction. The upgrade of water distribution systems in Chatham-Kent will improve access to safe, good quality municipal water.

CONSULTATIONS

Todgham & Case Associates prepared the detailed design and reviewed the tenders submitted.

FINANCIAL IMPLICATIONS

The 2005 Water Budget included \$389,700 for various capital waterline projects. The PUC has not approved any other capital projects at this time and this expenditure will not impact the 2005 Budget.

Prepared by:

Reviewed by:

Jack Sonneveld
Senior Level Advisor,
Chatham-Kent PUC

Scott Praill, C.E.T., B.Comm
General Manager,
Chatham-Kent PUC

Reviewed by:

Gerry Wolting, B.Math, CA
Acting CAO

Moved by Commissioner McGregor and seconded by Mayor Gagner.

“That the tender for the Queen’s Line and Davidson Road Watermain Extension, Contract No. T05-170, be awarded to Sherway Contracting (Windsor) Limited at the tendered cost of \$279,460.46 including GST.

The Chairperson and the General Manager of the Chatham-Kent Public Utilities Commission be authorized to sign the necessary agreements.”

Motion carried

f) Wallaceburg Watermain Replacement

**MUNICIPALITY OF CHATHAM-KENT
INFRASTRUCTURE AND ENGINEERING SERVICES
PUBLIC UTILITIES COMMISSION**

TO: PUC Chairperson and Commissioners

FROM: Nelson Cavacas, C.E.T.
Manager, Engineering and Traffic Division

DATE: September 6, 2005

Subject: Tender Award: Contract T05-172, Wallaceburg Water Main Replacements, Community of Wallaceburg

RECOMMENDATION

It is recommended that:

1. The tender in the amount of \$313,510 including GST for the Wallaceburg Water Main Replacements in the Community of Wallaceburg be awarded to Henry Heyink Construction Limited.

BACKGROUND

The watermain replacements on Walnut Drive, Maplewood Crescent and Napier Street in Wallaceburg were identified as a project in the 2005 budget approved by the Public Utilities Commission (PUC). The existing water mains consist of a 150mm diameter cast iron pipe along Walnut Drive and Maplewood Crescent and a 50mm diameter galvanized pipe on Napier Street. These existing water mains are roughly in excess of 50 years old and have a history of water breaks requiring at times emergency repairs. The Napier Street section of water main is also undersized according to Ministry of the Environment standard for urban areas. In addition, PUC staff have received complaints from area residents regarding pressures and confirmed these concerns with residual pressures and fire flows in this area by undertaking hydrant flow testing. The replacement of the existing lines with 150mm poly vinyl chloride (PVC) pipe will enhance the pressure, distribution grid and provide additional fire protection to these neighbourhoods.

Dillon Consulting Limited carried out the project engineering. The Purchasing Officer received and opened tenders for the work on Tuesday, September 6, 2005. The results are as follows:

NAPIER ST, WALNUT DR & MAPLEWOOD CRES. WATERMAIN REPLACEMENTS COMMUNITY OF WALLACEBURG		
Rank	Tenderer	Tender Amount
1	Henry Heyink Construction Limited Chatham, Ontario.	\$ 313,510.00
2	Slims Bulldozing Limited Port Lambton, Ontario.	\$ 347,195.53
3	Sherway Contracting (Windsor) Limited Windsor, Ontario.	\$ 405,176.90

Dillon Consulting Limited has reviewed the tenders and advised that the tenders are complete in all respects. Their recommendation letter (Appendix A) is attached.

COMMENTS

The project consists of the installation of a new 150mm replacement water main on Walnut Street from Dufferin Avenue to Maplewood Crescent and on Maplewood Crescent from Chestnut Drive to approximately 50 metres west of Walnut Drive. Also a new 150mm replacement upgrade water main on Napier Street from Park Street to Margaret Avenue which establishes a loop for this water main west of Mary Street. The project includes new water service connections, fire hydrants and appurtenances. A site map of the water main replacement has been attached for reference (see Appendix B).

The original project estimate for this project that is set out in the 2005 Lifecycle Water Main Replacements Budget was \$437,000. The engineering costs including design, tendering and contract administration are \$51,030. The engineer's most recent estimate for construction was \$298,000 including GST. Three competitive bids were received on the project. The low tender received is within 5% the engineer's estimate and within the total overall approved budget amount for lifecycle water main replacements.

Staff concurs with the recommendation to award the tender to Henry Heyink Construction Limited who submitted the lowest tender bid.

The project breakdown is summarized in the Financial Implications section of this report.

COMMUNITY STRATEGIC PLAN

The recommendation in this report supports the following objective and strategic direction:

B. Economy – We are a prosperous community**B3: Maintain and enhance new and existing infrastructure to support economic and smart growth opportunities****Desired Outcomes / Proposed Activities**

- **Support new infrastructure investments and modernize existing infrastructure**

The recommendation will not adversely impact on the remainder of the Community Strategic Plan.

CONSULTATION

The Tenders were opened by the Purchasing Officer and reviewed by the Tendering Committee comprised of the Purchasing Officer, Corporate and Development Services, the Manager, Financial Services/Treasurer, Corporate and Development Services and the Director, Engineering and Traffic Division, Infrastructure and Engineering Services.

The General Manager of Water and Wastewater Services was consulted in the preparation of this report and supports the recommendation.

FINANCIAL IMPLICATIONS

The project summary is set out in the following table.

WATER LINE REPLACEMENTS		
NAPIER STREET, WALNUT DRIVE AND MAPLEWOOD CRESCENT, COMMUNITY OF WALLACEBURG		
CONTRACT T05-172		
A) Project Funding:	Watermain Replacement Budget Estimate	\$ 437,000.00
B) Project Costs:	Low Tender, incl. GST	\$ 313,510.00
	Engineering Design & Inspection	\$ 51,030.00
	Less GST Rebate 7%	-\$ 20,510.00
	Project Total	\$ 344,030.00
	Cost Avoidance	\$ 92,970.00
C) Water main Replacement Budget Update Summary	Total Approved Budget	\$ 1,250,000.00
	Previously Approved	-\$ 762,031.97
	Current Project	-\$ 344,030.00
	Balance Remaining	\$ 143,938.03

The Van Allen Reconstruction project is still pending in Chatham that will account for the balance of the 2005 Lifecycle Water Main replacement budget.

Prepared by:

Reviewed by:

 Nelson Cavacas, C.E.T.
 Manager
 Engineering and Traffic Division

 Gary Northcott, P. Eng.
 Director
 Engineering and Traffic Division

Reviewed by:

Reviewed by:

 Leo Denys, P. Eng.
 General Manager
 Infrastructure and Engineering Services

 Acting Chief Administrative Officer
 Gerry Wolting, B.Math, CA

Moved by Commissioner McGregor and seconded by Commissioner Brown.

“That the tender in the amount of \$313,510 including GST for the Wallaceburg Water Main Replacements in the Community of Wallaceburg be awarded to Henry Heyink Construction Limited.”

Motion carried

g) Wallaceburg Sanitary Sewer Evaluation Program

**MUNICIPALITY OF CHATHAM-KENT
 INFRASTRUCTURE AND ENGINEERING SERVICES
 PUBLIC UTILITIES COMMISSION**

TO: PUC Chairperson and Commissioners

FROM: Stephen E. Jahns, P.Eng.
Manager, Infrastructure and Traffic
Engineering and Traffic Division

DATE: September 17, 2005

SUBJECT: Tender Award: Contract T05-152
Wallaceburg Sanitary Sewer Evaluation Program
Community of Wallaceburg, Municipality of Chatham-Kent

RECOMMENDATION

It is recommended that:

1. The tender in the amount of \$59,299.88 (including GST) for the work associated with Contract T05-152 Wallaceburg Sanitary Sewer Evaluation Program be awarded to D.M. Robichaud Associates Limited of Oshawa, Ontario.

BACKGROUND

In past years, storm events have caused localized flooding within the Community of Wallaceburg. These storm events have caused damage to private and municipal properties due to surcharging of local area sewers. As a result of these events, the Municipality, in conjunction with their consultant, undertook the process of evaluating area sewers and sewerage systems with the goal of identifying areas whereby improvements could be made to minimize future adverse impacts due to storm events. This study resulted in improvements to storm pump stations (namely the provision of emergency diesel generators) and other recommendations related to existing pump stations.

In a similar manner, the Public Utilities Commission has identified areas of sanitary sewers within the Community of Wallaceburg which are suspect of possessing interconnection with storm drains from local residential properties. Interconnection with storm drains and deteriorated sewer infrastructure results in infiltration of extraneous storm water into sanitary sewer systems resulting in increased use of combined sewer outflows or increased costs of treatment at local water pollution control plants. Extraneous flows tax both the environment and the costs associated with treatment of sanitary sewerage. Consequently, an evaluation program was identified and an estimated budget was established within the sanitary sewer lifecycle budget.

In early 2005, Engineering and Traffic Division engaged the consulting firm of Todgham & Case Associates to compile an evaluation program for the area identified in Appendix A. The following evaluation program was devised to evaluate and document the existing sanitary sewer infrastructure within the study area:

- flushing of sanitary sewer lines
- cctv inspection
- smoke testing
- maintenance hole inspection

Flushing of sanitary sewer lines serves the purpose of cleansing existing lines of any accumulated matter and affords evaluators a clearer view of the sewer infrastructure during evaluation by closed circuit television methods. CCTV inspection also allows the PUC delivery of video or DVD copies of all inspections should they be required for reference in future years.

Smoke testing is the process of forcing "smoke" filled air into the sewer system. The smoke under pressure will fill the line and any connections. Whether in a municipal mainline sewer, residential or industrial system, breaks or illegal taps in the sewer line will allow the smoke to escape and surface through the ground or pipe work quickly revealing the source of the problem.

The process of smoke testing sees a non-toxic "smoke" introduced into the existing system. Additional pressure (only enough to overcome atmospheric pressure) is introduced to facilitate dispersion of the smoke throughout the entire system. Provided openings exist for the smoke to flow, smoke tests are effective, regardless of surface characteristics, soil make-up and depth of sewer lines.

Smoke testing is the most cost effective and efficient way to locate infiltration (inflow) and exfiltration (outflow) problems in sewer systems. It is used to find leaks, inflow sources and most restrictive conditions within the sewer lines. Smoke testing is also an extremely efficient method for tracking piping systems and other mapping purposes.

The work identified within this contract is located within the area identified in Appendix A and seeks to evaluate 10.3 kilometres of sanitary sewer lines and 138 maintenance holes structures.

COMMENTS

The consulting firm of Todgham & Case Associates prepared the necessary tender packages and in late summer 2005 the project was let for Tender. Tenders were received and opened on February 1, 2005 in Council Chambers. The following results were received:

Contract T05-152 Wallaceburg Sanitary Sewer Evaluation Program Community of Wallaceburg, Municipality of Chatham-Kent		
Rank	Tenderer	Tender Amount (incl. 7% GST)
1	Sewer Maintenance Services PO Box 250 Kingsville, Ontario	No bid returned
2	D.M. Robichaud Associates Limited Oshawa, Ontario	\$ 59,299.88

Todgham & Case Associates Incorporated has reviewed the tenders and recommends the tender be awarded to D. M. Robichaud Associates Limited. Their recommendation letter is attached as Appendix B. Staff concurs with the recommendations put forth by the Consultant.

Engineering fees associated with the design, tender and project management of this project have been estimated as \$12,000 + GST.

The Contractor may commence work anytime after award. Total completion of the project is required by November 11, 2005.

Due to the nature of this project, namely the introduction of non-toxic "smoke" into areas of the Community of Wallaceburg, extensive coordination will occur between residents, the contractor, consultant, municipal staff and local emergency service providers to ensure that all residents are aware of the purpose of the project. Furthermore, residents will be educated as to the non-toxicity of the smoke, any requirements to minimize discomfort or disruption to said smoke and the results of any confirmed cross-connections. Residents and emergency service providers will be made aware of the project. In an attempt to reduce any false calls to Chatham-Kent Fire Services, notification of smoke testing will be given in advance of the work commencing.

COMMUNITY STRATEGIC PLAN

The recommendation in this report does not support, negatively or positively, a specific objective of the Community Strategic Plan. It is a neutral issue.

CONSULTATION

The Tenders were opened by the Purchasing Officer and reviewed by the Tendering Committee comprised of the Purchasing Officer, Corporate and Development Services, the Manager, Financial Services/Treasurer, Corporate and Development Services and the Director, Engineering and Traffic, Infrastructure and Engineering Services.

The Director, Public Utilities Commission was consulted in the preparation of this report and supports the recommendations contained herein.

FINANCIAL IMPLICATIONS

The financial implications associated with this project are as follows:

Contract T05-152 Wallaceburg Sanitary Sewer Evaluation Program Community of Wallaceburg, Municipality of Chatham-Kent		
A) Project Costs:	Low Tender, incl. GST	\$ 59,299.88
	Engineering Design & Inspection	\$ 13,800.00
	Less GST Rebate 7%	-\$ 4,782.24
	Project Total	\$ 68,317.64
B) 2005 Sanitary Sewer Lifecycle Budget	Total Approved Budget	\$ 1,440,000.00
	Previously Approved	-\$ 1,116,452.70
	Current Project	-\$ 145,100.00
	Balance Remaining	\$ 178,447.30

Prepared by:

Stephen E. Jahns, P.Eng.
Manager, Infrastructure and Traffic
Engineering and Traffic Division

Reviewed by:

Gary Northcott, P. Eng.
Director
Engineering and Traffic Division

Reviewed by:

Reviewed by:

 Jack Sonneveld,
 General Manager

 Joe G. Pavelka, P.Eng.
 Chief Administrative Officer

Public Utilities Commission

Moved by Commissioner McGregor and seconded by Commissioner Faas.

“That the tender in the amount of \$59,299.88 (including GST) for the work associated with Contract T05-152 Wallaceburg Sanitary Sewer Evaluation Program be awarded to D.M. Robichaud Associates Limited of Oshawa, Ontario.

The press will be notified when the work is to begin.”

Motion carried

h) John Park Line Waterline

MUNICIPALITY OF CHATHAM-KENT

Public Utilities Commission

TO: PUC Chairperson and Commissioners

FROM: Jeannie Medeiros
 Technical Assistant/Projects Co-ordinator,
 Water & Wastewater Services

DATE: September 22, 2005

SUBJECT: Project Award: John Park Line Waterline Extension
 (Township of Chatham)

RECOMMENDATIONS

It is recommended that:

1. The tender in the amount of \$27, 794.27 for the construction of the John Park Line Waterline be awarded to RBM Contractors, Wallaceburg, Ontario
2. The PUC Chairman and General Manager, be authorized to sign the necessary agreement.

BACKGROUND

The service area would see the construction of a 50mm watermain on John Park Line (just east of Albert Street) and extends to 7320 John Park line for 310 metres. A total of three (3) residential parcels exist along this portion of the petitioned area.

The John Park Line waterline extension was approved to proceed by Commission on April 21, 2005. The work being undertaken in this contract will be based on the design and specifications provided by Dillon Consulting Limited.

The estimated cost of the project was \$27, 780.00, not including GST.

COMMENTS

One of the property owners who is part of the waterline, Mr. Rabideau asked if, because the size of the waterline, he could get quotes for the waterline instead of tendering the project.

Ample time was provided for the submission quotes and although Mr. Rabideau was told 3 different quotes were needed, only one completed quote was received. All three property owners reviewed and agree on the quote presented by RBM Contractors. As per the purchasing policy adopted by Commission, tenders being awarded where only one bid was received require Commission's endorsement.

The estimated construction cost for this project is \$22,794.27, not including a contingency allowance of \$5000.00.

The tender results are as follows:

<u>NAME OF TENDERER</u>	<u>TOTAL TENDER AMOUNT</u>
RBM Contractors 551 Duncan, Wallaceburg	\$27,794.27

COMMENTS

The tender has been reviewed by the PUC and was found to be complete. Individual property owners assessed on the project have reviewed the estimate and are satisfied with it and will be assessed an amount very much in line with the engineer's estimate.

Weather permitting, the contractor will commence work in late October or early November after the completion of the 2005 harvest.

It is recommended that the Chatham-Kent PUC approve the award of the John Park Line Waterline Contract No. Q05-173, to RBM Contractors at the quoted cost of \$27,794.27, including GST.

COMMUNITY STRATEGIC PLAN

The recommendations in this report support the following objectives and strategic directions:

A: Health- We are a healthy community

A1: Provide sufficient capacity to sustain community health and economic growth

B. Economy-We are a prosperous community

B3: Maintain and enhance new and existing infrastructure to support economic and smart growth opportunities

C. Environment-We are a green community

C2: Establish standards for environment excellence

Desired Outcomes / Proposed Activities

- Advocate for essential provincial and federal investment and equitable tax policies to support financing and effective operation of sustainable transportation systems, water, sewer and waste management services.
- Support new infrastructure investments and modernize existing infrastructure.
- Maintain and improve the quantity and quality of ground and surface waters
- Increase the number of homes, businesses and farms on municipal water and sewage
- Establish proactive approach to maintain integrity of our lakes and rivers

The recommendations will not adversely impact the remainder of the Community Strategic Plan.

CONSULTATION

Dillon Consulting Limited prepared the preliminary engineering information.

FINANCIAL IMPLICATIONS

All costs associated with the project would be recovered through assessment.

Prepared by:

Jeannie Medeiros
Technical Assistant/Projects Co-ordinator

Reviewed by:

Jack Sonneveld
Senior Level Advisor,
Chatham-Kent PUC

Reviewed by:

Gerry Wolting, B.Math, CA.
Acting CAO

Moved by Commissioner McGregor and seconded by Commissioner Brown.

“That the tender in the amount of \$27, 794.27 for the construction of the John Park Line Waterline be awarded to RBM Contractors, Wallaceburg, Ontario

The PUC Chairman and General Manager, be authorized to sign the necessary agreement.”

Director, Scott Praill, reported that 138 petitions have been completed to date and only 7 are outstanding.

Motion carried

i) Marsh Line Watermain Extension

MUNICIPALITY OF CHATHAM-KENT

Public Utilities Commission

TO: PUC Chairperson and Commissioners
FROM: Jeannie Medeiros
 Technical Assistant/Projects Co-ordinator,
 Water & Wastewater Services
DATE: September 22, 2005
SUBJECT: Marsh Line Waterline Extension
 Former Township of Dover

RECOMMENDATIONS

It is recommended that:

1. The proposed Marsh Line waterline extension not proceed at this time.
2. The property owners along the Marsh Line are informed by letter of the vote results and the PUC action.

BACKGROUND

The Marsh Line petition was submitted to the Chatham-Kent Public Utilities Commission in June 2000 from residents along Marsh Line, west of Winterline Road in the former Township of Dover.

COMMENTS

The service area would see the construction of a 100 mm waterline to be connected to the existing main on Winterline Road and extend to 6484 Marsh Line for a distance of about 3500 meters.

A total of ten (10) residential land parcels and fifteen (15) vacant agricultural parcels exist along this portion of the petitioned area.

Todgham & Case Associates Inc. prepared an estimated cost for the proposed waterline. The estimated cost for the project, including engineering and GST is \$136, 260.00. The estimated cost per connection for the proposed Marsh Line waterline extension, including the 2005 Part 12 Charge is \$9, 899.25.

Details of the project and the estimated cost per connection were sent by mail using a ballot page and information package.

It was indicated to the property owners that the PUC would require that a majority were in favour of the project and, that as a guideline, 66% of the returned votes should support the project before administration would recommend that the project proceed to construction. The wording on the ballot page indicated that the project would be evaluated based on the number of returned ballots.

An information and vote package describing the proposed extension project and costs associated was distributed to the benefiting owners on August 16, 2005. A ballot was included with the return date of September 1, 2005. Ninety-two percent (92%) of the property owners returned the ballots. The ballot results were nineteen percent (19%) in favour of proceeding with the project.

Based on the approved Waterline Assessment Policy requiring 66% support, it is our recommendation that the PUC not proceed with providing water servicing to the residences along the Marsh Line at this time and that the property owners are notified by letter, of the vote results and the PUC action.

COMMUNITY STRATEGIC PLAN

The recommendations in this report support the following objectives and strategic directions:

A: Health- We are a healthy community

A1: Provide sufficient capacity to sustain community health and economic growth

B. Economy-We are a prosperous community

B3: Maintain and enhance new and existing infrastructure to support economic and smart growth opportunities

C. Environment-We are a green community

C2: Establish standards for environment excellence

Desired Outcomes / Proposed Activities

- Advocate for essential provincial and federal investment and equitable tax policies to support financing and effective operation of sustainable transportation systems, water, sewer and waste management services.
- Support new infrastructure investments and modernize existing infrastructure.
- Maintain and improve the quantity and quality of ground and surface waters
- Increase the number of homes, businesses and farms on municipal water and sewage
- Establish proactive approach to maintain integrity of our lakes and rivers

The recommendations will not adversely impact the remainder of the Community Strategic Plan.

CONSULTATION

Todgham & Case Associates Inc. prepared the preliminary engineering information.

FINANCIAL IMPLICATIONS

There are no associated costs with the recommendations of this project.

Prepared by:

Jeannie Medeiros
Technical Assistant/Projects Co-ordinator

Reviewed by:

Jack Sonneveld
General Manager
Chatham-Kent PUC

Reviewed by:

Gerry Wolting, B.Math, CA.
Acting CAO

Moved by Commissioner Brown and seconded by Commissioner Faas.

“That the proposed Marsh Line waterline extension not proceed at this time.

The property owners along the Marsh Line are informed by letter of the vote results and the PUC action.”

Motion carried

j) Beattie Street Watermain Extension

MUNICIPALITY OF CHATHAM-KENT

Public Utilities Commission

TO: PUC Chairperson and Commissioners

FROM: Jeannie Medeiros
Technical Assistant/Projects Co-ordinator,
Water & Wastewater Services

DATE: September 22, 2005

SUBJECT: Beattie Street Waterline Extension
(Community of Wallaceburg)

RECOMMENDATIONS

It is recommended that:

1. The proposed Beattie Street waterline extension not proceed at this time.
2. The property owners along the Beattie Street are informed by letter of the vote results and the PUC action.

BACKGROUND

The Beattie Street petition was submitted to the Chatham-Kent Public Utilities Commission in June 2000 from residents along Beattie Street, south of Base Line in the community of Wallaceburg.

COMMENTS

The service area would see the construction of a 300 mm waterline to be connected to the existing main on Beattie Street and extend to 300 Beattie Street for a distance of about 475 meters.

A total of five (5) residential land parcels and one (1) vacant agricultural parcels exist along this portion of the petitioned area.

Dillon Consulting Limited prepared an estimated cost for the proposed waterline. The estimated cost for the project, including engineering and GST is \$50,800.00 of which \$11,120.00 is associated with oversizing and would be charged to the PUC. The estimated cost per connection for the proposed Beattie Street waterline extension, including the 2005 Part 12 Charge is \$8, 375.25.

Details of the project and the estimated cost per connection were sent by mail using a ballot page and information package. It was indicated to the property owners that the PUC would require that a majority were in favour of the project and, that as a guideline, 66% of the returned votes should support the project before administration would recommend that the project proceed to construction. The wording on the ballot page indicated that the project would be evaluated based on the number of returned ballots.

An information and vote package describing the proposed extension project and costs associated was distributed to the benefiting owners on August 16, 2005. A ballot was included with the return date of September 1, 2005. One hundred percent (100%) of the property owners returned the ballots. The ballot results were forty-three percent (43%) in favour of proceeding with the project.

Based on the approved Waterline Assessment Policy requiring 66% support, it is our recommendation that the PUC not proceed with providing water servicing to the residences along the Beattie Street at this time and that the property owners are notified by letter, of the vote results and the PUC action.

COMMUNITY STRATEGIC PLAN

The recommendations in this report support the following objectives and strategic directions:

A: Health- We are a healthy community

A1: Provide sufficient capacity to sustain community health and economic growth

B. Economy-We are a prosperous community

B3: Maintain and enhance new and existing infrastructure to support economic and smart growth opportunities

C. Environment-We are a green community

C2: Establish standards for environment excellence

Desired Outcomes / Proposed Activities

- Advocate for essential provincial and federal investment and equitable tax policies to support financing and effective operation of sustainable transportation systems, water, sewer and waste management services.
- Support new infrastructure investments and modernize existing infrastructure.
- Maintain and improve the quantity and quality of ground and surface waters
- Increase the number of homes, businesses and farms on municipal water and sewage
- Establish proactive approach to maintain integrity of our lakes and rivers

The recommendations will not adversely impact the remainder of the Community Strategic Plan.

CONSULTATION

Dillon Consulting Limited prepared the preliminary engineering information.

FINANCIAL IMPLICATIONS

There are no associated costs with the recommendations of this project.

Prepared by:

Jeannie Medeiros
Technical Assistant/Projects Co-ordinator

Reviewed by:

Jack Sonneveld
General Manager
Chatham-Kent PUC

Reviewed by:

Gerry Wolting, B.Math, CA.
Acting CAO

Moved by Commissioner McGregor and seconded by Commissioner McGuigan.

“That the proposed Beattie Street waterline extension not proceed at this time.

The property owners along the Beattie Street are informed by letter of the vote results and the PUC action.”

Motion carried

k) Eighth Line Watermain Extension

MUNICIPALITY OF CHATHAM-KENT

Public Utilities Commission

TO: PUC Chairperson and Commissioners

FROM: Jeannie Medeiros
Technical Assistant/Projects Co-ordinator,
Water & Wastewater Services

DATE: September 22, 2005

SUBJECT: Eighth Line Waterline Extension
Merlin Road to North Buxton
(Township of Raleigh)

RECOMMENDATIONS

It is recommended that:

1. The proposed Eighth Line waterline extension not proceed at this time.
2. The property owners along the Eighth Line are informed by letter of the vote results and the PUC action.

BACKGROUND

The Eighth Line (Merlin Road to North Buxton) petition was submitted to the Chatham-Kent Public Utilities Commission in May 2004 and May 2005 from residents along Eighth Line, east of Merlin Road in the former Township of Raleigh.

COMMENTS

The proposed distribution network for this area is to be connected to the existing main on Merlin Road and extend for about 5200 metres terminating immediately west of North Buxton also included is a portion of Wellwood Road extending for a distance of 350 metres.

The system will include construction of a 200 mm watermain on Eighth Line and a 100mm watermain along Wellwood Road. The 200mm watermain is considered oversized serving as a secondary trunk main between Merlin Road and Bloomfield Road.

The minimum size system that would provide the required flows and pressure to the service area, was determined to be a 150mm line along Eighth Line and a 100mm line on Wellwood Road

A total of nineteen (19) residential land parcels and fifteen (15) vacant agricultural parcels exist along this portion of the petitioned area.

Todgham & Case Associates Inc. prepared an estimated cost for the proposed waterline. The estimated cost for the project, including engineering and GST is \$483,360.00 of which \$139,680.00 is associated with oversizing and would be charged to the PUC.

The estimated cost per connection for the proposed Eighth Line waterline extension, including the 2005 Part 12 Charge is \$16,515.25.

Details of the project and the estimated cost per connection were sent by mail using a ballot page and information package.

It was indicated to the property owners that the PUC would require that a majority were in favour of the project and, that as a guideline, 66% of the returned votes should support the project before administration would recommend that the project proceed to construction. The wording on the ballot page indicated that the project would be evaluated based on the number of returned ballots.

An information and vote package describing the proposed extension project and costs associated was distributed to the benefiting owners on August 16, 2005. A ballot was included with the return date of September 1, 2005. One hundred percent (100%) of the property owners returned the ballots. The ballot results were twenty-one percent (21%) in favour of proceeding with the project.

Based on the approved Waterline Assessment Policy requiring 66% support, it is our recommendation that the PUC not proceed with providing water servicing to the residences along the Eighth Line at this time and that the property owners are notified by letter, of the vote results and the PUC action.

COMMUNITY STRATEGIC PLAN

The recommendations in this report support the following objectives and strategic directions:

A: Health- We are a healthy community

A1: Provide sufficient capacity to sustain community health and economic growth

B. Economy-We are a prosperous community

B3: Maintain and enhance new and existing infrastructure to support economic and smart growth opportunities

C. Environment-We are a green community

C2: Establish standards for environment excellence

Desired Outcomes / Proposed Activities

- Advocate for essential provincial and federal investment and equitable tax policies to support financing and effective operation of sustainable transportation systems, water, sewer and waste management services.
- Support new infrastructure investments and modernize existing infrastructure.
- Maintain and improve the quantity and quality of ground and surface waters
- Increase the number of homes, businesses and farms on municipal water and sewage
- Establish proactive approach to maintain integrity of our lakes and rivers

The recommendations will not adversely impact the remainder of the Community Strategic Plan.

CONSULTATION

Todgham & Case Associates Inc. prepared the preliminary engineering information.

FINANCIAL IMPLICATIONS

There are no associated costs with the recommendations of this project.

Prepared by:

Jeannie Medeiros
Technical Assistant/Projects Co-ordinator

Reviewed by:

Jack Sonneveld
Senior Level Advisor
Chatham-Kent PUC

Reviewed by:

Gerry Wolting, B.Math, CA.
Acting CAO

Moved by Commissioner McGuigan and seconded by Commissioner McGregor.

“That the proposed Eighth Line waterline extension not proceed at this time.

The property owners along the Eighth Line are informed by letter of the vote results and the PUC action.”

Motion carried

I) Water & Wastewater Financial Report

**MUNICIPALITY OF CHATHAM-KENT
Public Utilities Commission**

TO: PUC Chairperson and Commissioners
FROM: Jack Sonneveld
Senior Level Advisor, Chatham-Kent PUC
DATE: September 22, 2005
SUBJECT: Water/Wastewater Revenues and Expenditures

RECOMMENDATIONS:

It is recommended that:

1. The Chatham-Kent Public Utilities Commission approve the changes to the charges to the Development Charges and Part XII Charges Reserve Funds for 2005.
2. The financial information summary be received for information.

BACKGROUND

The Summary of Revenues and Expenditures for water and wastewater are prepared monthly for the Commission’s review and information.

The year-to-date revenues and expenditures (August, 2005) are on historical usage patterns and no significant variances are projected in 2005. The debt related payments have been projected based on twelve (12) equal monthly charges.

The Development Charges/Part XII Charges Reserve Fund balances, at August 31, 2005, are summarized as follows:

Development Charges/Part XII Charges "Reserve Balances"			
Description	Development Charges:	Part XII Charges:	TOTAL
Water	\$354,411.19	\$76,900.84	\$431,312.03
Sewer	\$611,492.76	\$45,286.72	\$656,779.48

It should also be noted that the calculated contribution from the Development Charges/Part XII Charges Reserve Funds are substantially higher than budgeted.

The changes as are summarized as follows:

Development Charges/Part XII Charges Funds "2005 Allocations"		
Description	Budget amount:	Calculated amount:
Water	\$200,000.00	\$603,316
Sewer	\$200,000.00	\$622,700

CONSULTATIONS

Chatham-Kent Utility Services prepared the summaries of budget information.

FINANCIAL IMPLICATIONS

There are no adverse impacts on the 2005 Water and Wastewater Budget anticipated.

Prepared by:

Reviewed by:

Jack Sonneveld
Senior Level Advisor,
Chatham-Kent PUC

Scott Prail, C.E.T., B.Comm.
General Manager,
Chatham-Kent PUC

Reviewed by:

Gerry Wolting, B.Math, CA.
Acting CAO

Moved by Commissioner McGuigan and seconded by Commissioner Brown.

“That the Chatham-Kent Public Utilities Commission approve the changes to the charges to the Development Charges and Part XII Charges Reserve Funds for 2005.

The financial information summary be received for information.”

Motion carried

5. INFORMATION

- a) Organizational Structure – Chatham-Kent PUC
- b) Ridgetown College – July Newsletter
- c) Sourcewater Protection Information
- d) Letter from EMA

Moved by Commissioner Brown and seconded by Commissioner Faas.

“To receive the information.”

Motion carried

6. NEW BUSINESS

NONE

7. NEXT MEETING

The next PUC Commission meeting is scheduled for Thursday, October 20, 2005 at 3:30 PM at the PUC boardroom.

8. ADJOURNMENT

Moved by Commissioner Faas and seconded by Commissioner Brown.

“That the Regular meeting be adjourned at 5:40 PM and move in-camera.”

Motion carried