Regional Municipality of Waterloo
Planning and Works Committee
Minutes

Tuesday, January 28, 2014
9:08 a.m.
Regional Council Chambers
150 Frederick Street, Kitchener


Members absent: J. Wideman

Declarations of Pecuniary Interest Under the Municipal Conflict of Interest Act

R. Deutschmann declared a pecuniary interest with respect to Report E-14-009, Recommended Intersection Modifications at Mill Street and Ottawa Street and Report E-14-015, 2013 Summary of ION Community Relations Activities in 2013, due to an indirect pecuniary interest since he and his spouse are shareholders of corporations that have an interest in a property at 10 Duke Street West, Kitchener.

T. Galloway declared a pecuniary interest with respect to Report P-14-006, Amendment to Regional Municipality of Waterloo Controlled Access By-law #58-87 for an Access to Regional Road #58 (Bearinger Road), City of Waterloo due to his employment at the University of Waterloo.

*J. Mitchell, T. Cowan and B. Halloran entered the meeting at 9:12 a.m.

Delegations

a) Kevin Litwiller, Director of Business Development, Lystek International Inc. appeared before Committee regarding biosolids management. He provided a presentation that highlighted:

- Goals for today;
• Why was revisiting the plan important;
• Why revisit the Lystek approach;
• A Local Success Story;
• Agricultural Acceptance;
• Positive media articles/coverage
• Regional Organic Material Recovery Centre;
• Regional OMRC – details;
• Reiterating Lystek’s Offer;
• What’s in it for the Region and its Citizen’s; and
• Summary

A copy of the presentation is appended to the original minutes.

*C. Millar and J. Brewer entered the meeting at 9:17 a.m.

Nancy Kodousek, Director, Water Services provided an update on the biosolids management plan stating staff is currently working on a report that will be coming forward in the next couple months noting the report will contain what to anticipate in 2014 and goals for 2015. N. Kodousek stated that currently there is a contractor that is disposing of the Regions’ biosolids highlighting that contract is for 5 years with the option to extend for another 5 years to allow for time to work on the Biosolids Master Plan.

Thomas Schmidt, Commissioner, Transportation and Environmental Services provided clarification on the time lines for the Biosolids Master Plan.

Vice Chair G. Lorentz suggested in early Spring Councillors could arrange a tour of the Lystek facility.

**Request to Remove Items From Consent Agenda**

J. Haalboom asked report 4 d) be removed from the Consent Agenda.

d) P-14-007, Region of Waterloo Contribution to the Preparation of a Reference Plan for Road Widening Dedication on Regional Road #42 (Blair Road), Township of North Dumfries

J. Haalboom asked what the intent is of widening Blair Road and what has been the public process. Bruce Erb, Supervisor, Corridor Management provided clarification stating that the report is for widening of the road allowance not the physical roadway and to comply with the Region’s Official Plan.

Moved by K. Seiling

Seconded by R. Deutschmann

That the Regional Municipality of Waterloo contribute $1,800 toward the cost of the preparation of a reference plan for a road allowance widening dedication along the
south side of Regional Road #42 (Blair Road) in the Township of North Dumfries, as described in Report No. P-14-007, dated January 28, 2014.

Carried

Item 4c) was removed from the Consent Agenda due to T. Galloway’s conflict of interest.

c) P-14-006, Amendment to Regional Municipality of Waterloo Controlled Access By-law #58-87 for an Access to Regional Road #58 (Bearinger Road), City of Waterloo

Moved by K. Seiling

Seconded by S. Strickland

That the Regional Municipality of Waterloo approve an amendment to Controlled Access By-law #58-87 for an access on the west side of Regional Road #58 (Bearinger Road), approximately 130 metres north of Laurelwood Drive in the City of Waterloo, as described in Report No. P-14-006, dated January 28, 2014.

Carried

**Motion to Approve Items Or Receive For Information**

Moved by C. Zehr

Seconded by T. Galloway

That the following items be approved:

a) That the Regional Municipality of Waterloo enter into a Consultant Services Agreement with MTE Consultants Inc. of Kitchener, Ontario to provide consulting engineering services for preliminary design, detailed design, construction contract administration and construction inspection for the Ottawa Street Improvements from the Highway 7 Westbound Ramp to King Street East in the City of Kitchener at an upset limit of $201,047.75 plus applicable taxes, as per Report E-14-006 dated January 28, 2014, for the preliminary design and detailed design phases with construction contract administration and construction inspection to be paid on a time basis.


Carried

**Regular Agenda Resumes**

**Reports – Transportation and Environmental Services**

**Design and Construction**

1558955
a) E-14-007, Notre Dame Drive and Snyder’s Road Reconstruction, Township of Wilmot

Received for information.

It was noted that the report and delegations will be coming to the next Planning and Works meeting on February 11th, 2014.

b) E-14-010, King Street and Weber Street Improvements, City of Waterloo

Vice Chair G. Lorentz introduced item c) as an addition to the recommendation that was missed in the original recommendation to approve the installation of underground traffic signal ducts.

Moved by S. Strickland

Seconded by K. Seiling

That the Regional Municipality of Waterloo take the following actions with respect to proposed improvements on King Street (Regional Road 15), Weber Street to Highway 85, and on Weber Street (Regional Road 8), Forwell Creek Road to Blythwood Road, in the City of Waterloo:

a) approve the Recommended Design Alternative for King and Weber Streets as outlined in Report E-14-010; and

b) amend Traffic and Parking By-law 06-072, as proposed herein, upon completion of construction to accommodate the following modifications:

i) Remove Schedule 1, Weber Street (Regional Road 8), King Street (Regional Road 15) to Kitchener City Limits;

ii) Add to Schedule 1, No Parking Anytime on both sides of King Street (Regional Road 15), Weber Street to Highway 85, and on Weber Street (Regional Road 8), Blythwood Road to Kitchener City Limits, in the City of Waterloo; and

iii) Add to Schedule 24, Reserved Lane Anytime on Both Sides of Weber Street (Regional Road 8) from Forwell Creek Road to Blythwood Road for Bicycles; and

c) approve the installation of underground traffic signal ducts for possible future traffic signals at the intersection of King Street and King Street North Service Road.

Carried

*L. Armstrong entered the meeting at 9:35 a.m.

Rapid Transit

1558955
c) E-14-009, Recommended Intersection Modifications at Mill Street and Ottawa Street

T. Schmidt provided clarification regarding this intersection and responded to Committees' questions regarding additional work being done on Courtland Avenue, the left turning queue on Courtland Avenue, GRT bus stops, the new Block Line Bridge, and staff’s communication plan to the public regarding these significant changes to this intersection.

Moved by S. Strickland
Seconded by J. Mitchell
That the Regional Municipality of Waterloo approve the recommended intersection modifications at Mill Street and Ottawa Street, as per report E-14-009, dated January 28, 2014.

Carried

d) E-14-015, 2013 Summary of ION Community Relations Activities in 2013

Received for information.

Some Committee members expressed concerns that the public is hearing the ION should be stopped or changed and they are not hearing why we are doing this, stating the reasons go beyond the cost. Members stressed the importance of reminding the public why we are doing this; to make a stand on transit, for a planning perspective, for intensification, and it takes pressure off rural areas in the long term. I was also highlighted the alternative is just as costly.

Mike Murray, Chief Administrative Officer stated that the report highlights some of the communications activities that happened in 2013 and what is planned for 2014 noting the report doesn't explain what message is being communicated. He stated that the Region needs to reinforce why we are doing this project and to take every opportunity to relay that message to the public and stakeholders.

A Committee member pointed out that Cambridge residents are not happy paying for a service they are not receiving, they would like to see a commitment that is tangible. Committee members were cautioned debating equal services.

Some Committee members highlighted that the message isn’t being delivered to Cambridge citizens and suggested the facts and benefits of the ION could be highlighted in the Cambridge Times. It was also suggested that more communication should occur in the suburban areas of the Region.

Transportation

e) E-14-005, Proposed Accessible On-Street Parking
J. Haalboom stated she attended the Grand River Accessibility Advisory Committee (GRAAC) meeting on Thursday, January 24th, 2014. She referred to the correspondence provided by GRAAC asking that the Region adopts a practice to designate at least 4% existing on-street parking spaces as accessible on-street parking.

Some Committee members stated that a 2% increase was a good starting point and suggested reviewing accessible on-street parking 18 months from now.

Some Committee members expressed concerns with Ainslie Street in Cambridge having 4% accessible on-street parking.

John Hammer, Director, Transportation provided clarification on the procedure of providing 2% accessible on-street parking stating that the proposed accessible parking spots will still need to be approved by Council. This report is designating 2% accessible on-street parking not the actual spots.

It was suggested in the future that staff bring reports to GRAAC first to have allow for their input to be included.

Moved by S. Strickland
Seconded by J. Mitchell

That the Regional Municipality of Waterloo approve the designation of up to 2% of existing on-street parking spaces along Regional roads as accessible parking within the “Core” areas in the Cities of Cambridge, Kitchener and Waterloo and within the Townships of North Dumfries, Wellesley, Wilmot and Woolwich; as outlined in Report E-14-005 dated January 28, 2014.

Carried
(J. Haalboom opposed)

f) E-14-012, Airport Master Plan – Update

Received for information.

Committee members discussed in detail the importance of public consultation and participation on this particular matter and inquired about the next steps.

Jeff Schelling, Solicitor, Corporate provided an outline of the meeting scheduled for February 6th, 2014 noting that the consultant will be present to answer any questions and that 4 development options will be presented. He explained that after the first public information meeting a second information session will occur presenting the preferred option. J. Schelling also pointed out that the public can provide their comments on-line.

Some Committee members expressed concerns with only having one public information session before a preferred option is selected and suggested not to wait for the outcome to arrange another public information session. Staff explained the Region’s process
and stated that depending on the outcome of the first information session that more sessions could be arranged.

R. Deutschmann introduced a motion that asked that staff schedule another public information session.

Moved by R. Deutschmann
Seconded by S. Strickland

That the Region of Waterloo holds a second Public Information Session regarding the Airport Master Plan before a preferred option is presented.

Carried

Waste Management

E-14-014, Curbside Collection Contract Considerations

T. Schmidt introduced the report noting that the request to extend the existing contract allows staff time to review and have extensive consultation with the public with respect to waste collection options such as bag limits and bi-weekly collection.

Some Committee members inquired about public consultation in the Townships regarding the changes to the rural transfer stations. Jon Arsenault, Director, Waste Management indicated that staff are putting together an information handout for the public highlighting the changes at those transfer stations as well as signage. He also noted public engagement could be explored during public consultation of waste collection.

J. Arsenault provided clarification on harmonizing services, waste composition and provisions in the current contract for extensions.

Some Committee members suggested providing an update to residents in the Enviro News as well as in community centers and libraries explaining what the Region is thinking of doing with respect to curbside collection.

Moved by K. Seiling
Seconded by L. Armstrong


Carried

Interdepartmental Reports

E-14-013/P-14-008, 2014 Planning and Works Project Team Membership
Vice-Chair G. Lorentz solicited Councillors to volunteer for the project teams noted in the report.

Moved by C. Zehr

Seconded by T. Cowan

THAT the Regional Municipality of Waterloo appoint the following Regional Councillors to the following project and study teams:

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Area Municipality</th>
<th>Suggested Council Representative</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.</td>
<td>2015 Proposed Transit Service Improvements (Highland and Victoria iXpress)</td>
<td>Region Kitchener</td>
<td>G. Lorentz</td>
</tr>
</tbody>
</table>
| 12. | GRT Business Plan 2015-2018 | Region | S. Strickland  
J. Haalboom |
| 63. | Fischer Hallman Road Widening, Plains Road to Bleams Road  
Design 2014-2018  
Construction 2019 | Kitchener | T. Galloway |
| 64. | Erb Street Improvements Fischer Hallman Road to Wilmot Line  
EA 2014-2015  
Design 2015-2017  
Construction 2018 | Waterloo | J. Mitchell |
| 80. | Cambridge Water Supply System Upgrade | Region Cambridge | J. Brewer |
| 81. | Cambridge Water Distribution Upgrades Class EA | Region Cambridge | C. Millar |

And that the Regional Municipality of Waterloo forward the requests for area Councillor representatives on project and study teams to the Area Municipalities as described in Appendix A in Report E-14-013/P-14-008, dated January 28, 2014.

1558955
Rob Horne, Commissioner, Planning, Housing and Community Services introduced the report and provided introductory comments stating since the program has started the Region has helped in the creation of over 400 new residential units and over 400,000 square feet of non-residential space.

Moved by C. Zehr

Seconded by B. Halloran

THAT the Regional Municipality of Waterloo take the following action regarding the Region’s Brownfields Financial Incentive Program, as described in Report No. P-14-009/F-14-008, dated January 28, 2014:

a) Endorse the Brownfields Financial Incentive Program “Eligible Remediation Cost Submission Requirements” document attached in this report in order to provide further clarity with respect to the administration and implementation of the program; and

b) Endorse further consultation with the Area Municipalities and industry stakeholders regarding the program areas identified for further potential revision, and report back to Regional Council in 2014.

Carried

Reports – Planning, Housing and Community Services

j) P-14-010, Mid-Year 2013 Region of Waterloo Industrial and Business Park Vacant Land Inventory

Received for information.

R. Horne introduced the report and noted that a copy of the full report is available in the council library. He thanked Bridget Cody, Principal Planner, area municipal planners and economic development officers for assembling the data.

Some Committee members expressed concerns with moving forward focusing on land 20 acres or greater pointing out that in the City of Cambridge since 1997 there were 174 industrial land sales, 1 sale for greater than 50 acres, 2 sales for greater than 20 acres and 3 sales for greater than 15 acres. It was suggested that the Region remain flexible and noted that not everyone is looking for land greater than 20 acres.

R. Horne provided examples of opportunities the Region missed out on because they were not positioned properly for large lots in the past but highlighted that message should be the Region is flexible and open for business.
k) P-14-011, Regional Transportation Master Plan – Progress Report

Received for information.

Geoffrey Keyworth, Senior Transportation Planning Engineer provided a presentation that highlighted:

- Overview;
- Community Vision;
- RTMP Goals;
- Highlights;
- GRT: Significant Changes; iXpress; Investment; ION; aBRT; Achieving Aggressive Realistic Targets;
- Regional Roads: Regional Investment; Managing Traffic;
- Walking and Cycling: Investing;
- Transportation Demand Management: TravelWise; Community CarShare;
- Inter-Regional Transportation: Provincial Investment; Inter-regional Transit;
- Moving forward; and
- Next Steps

A copy of the presentation is appended to the original minutes.

Committee members discussed ridership targets particularly on the iXpress 200.

Committee members inquired about separate or segregated cycling lanes and asked if there could be a pilot project on this. Steve van De Keere, Acting Director, Design and Construction noted that the report on Petersburg’s road improvements that will be coming forward at the next Planning and Works meeting has off road cycling lanes and it was also pointed out that multi-use trails will be constructed on both sides of Franklin Boulevard.

Committee members discussed GO Train and the importance and benefits of both South and North lines in the Region of Waterloo. It was pointed out that the City of Cambridge has hired someone to conduct a study on the GO Train coming into Cambridge and it was recommended that K. Seiling arrange a meeting with Metrolinx once that study is completed.

M. Murray highlighted that a couple reports over the past year that this Council has taken a position and has requested the Provincial government to both improve GO Train Service on the Kitchener route and to add GO Train Service to Cambridge. He assured Committee members that Regional staff continue to reinforce that both of those services are needed at every opportunity.

Information/Correspondence

a) Letter from Grand River Accessibility Advisory Committee re: Report E-14-005, Proposed Accessible On-Street Parking

Received for information.

1558955
J. Haalboom asked that staff send a letter to GRAAC highlighting the recommendation that was passed and to include an explanation of Committees decision.

b) Council Enquiries and Requests for Information Tracking List.

Received for information.

R. Deutschmann asked that staff report back on a battery recycling program.

Next Meeting – February 11, 2014

Adjourn

Moved by T. Galloway

Seconded by B. Halloran

That the meeting adjourn at 11:39 a.m.

Carried

Committee Vice-Chair, G. Lorentz

Committee Clerk, E. Flewwelling
Delegation to Region of Waterloo
Re: Long Term Biosolids Management
January 28, 2014
Goals for Today

• Thank Staff & Council for listening to the health, safety & cost concerns expressed by the public and the local business community related to the originally planned heat dryer (Cambridge) & appreciation for taking the time to revisit the long term biosolids management plan for the Region.

• Reiterate Lystek’s sincere offer and commitment, as a locally founded company, employer and success story, to reduce costs and provide proven, sustainable long-term solutions, just as we have been doing for our neighbours at the City of Guelph (and others) for several years.

• Extend a formal invitation to all members of Regional Council and Staff to come and see our state-of-the-art, fully licensed and operational, Organic Material Recovery Centre in the Township of Southgate, Ontario.
Why was revisiting the plan important?

- Technologies and solutions have matured and advanced since the BMP was developed and the original recommendation was made.

- Opportunity to revisit the economics and ensure the best decision is made before making large, long-term financial commitments (especially given current budget constraints) and other community concerns.

- Opportunity to confirm key aspects and concerns prior to making final commitments to proceed (has been done in other, large municipalities).
Why revisit the Lystek approach?

• Health and Safety Benefits

  Safe, regulated & proven - no health concerns (dust, pathogens etc.)
  Totally enclosed process – no potential for fire or explosions.

• Existing Approved/Operational Site

  Eliminates plant siting and additional public opposition/concerns.
Why revisit the Lystek approach?

Cost Reductions

• Original budget estimate for heat dryer had changed and increased substantively in 2013.
• Last estimated price tag for that option was approximately $250 million over the projected 25 year life span of the project.
• Lystek offers life-cycle cost savings of approximately $100 million over the same term, with potential for additional cost savings.
• Lystek offer includes firm, predictable, long term pricing with financial security and full risk transfer over any term.
• Further cost savings could be realized if some in-plant upgrades were to be made at a few (2-3) of the Region’s WWTP’s.
A Local Success Story

• Incubated at the University of Waterloo – in year 2000.

• Established and proven: 5 sites in Ontario processing material from numerous municipalities including Guelph, St Marys, Centre-Wellington (Elora), Orangeville, Midland, Toronto, Peterborough, Ottawa, Halton Region and the Region of Waterloo, with further expansion into Western Canada and the US this year and next (2014-2015).

• 100% Canadian owned and operated - division of successful, respected, 60 year old, Ontario-based, R.W. Tomlinson Ltd., (of Ottawa).
## A Local Success Story

<table>
<thead>
<tr>
<th>Site</th>
<th>Guelph</th>
<th>St Marys</th>
<th>Southgate OMRC</th>
<th>Iroquois</th>
<th>Elora</th>
</tr>
</thead>
<tbody>
<tr>
<td>Status</td>
<td>Operating</td>
<td>Operating</td>
<td>Operating</td>
<td>Operating</td>
<td>2014</td>
</tr>
<tr>
<td>Volumes</td>
<td>18,000 t/26%</td>
<td>3,500 t/26%</td>
<td>150,000 t/3%-26%</td>
<td>50,000 t/3%-26%</td>
<td>3,000 t/26%</td>
</tr>
<tr>
<td>Capacity</td>
<td>10m3/h</td>
<td>3m3/h</td>
<td>30m3/h</td>
<td>9m3/h</td>
<td>5m3/h</td>
</tr>
<tr>
<td>Ownership</td>
<td>Guelph</td>
<td>St Marys</td>
<td>Lystek</td>
<td>Third High Farms</td>
<td>Elora</td>
</tr>
</tbody>
</table>

Through regional centres above, we are solutions provider for the Cities of Toronto, Ottawa, Peterborough, Orangeville, Midland, Walkerton, the Regions Halton, Waterloo and more...
A Local Success Story

Recognized & Award Winning - as fiscally & environmentally responsible.

• Recognized:
  • First & only Biosolids company to be accepted as members of the Canadian Fertilizer Institute (CFI).

• Multi Award Winning:
  • 2 x winner of WEAO (Water Environment Association of Ontario) for Exemplary Biosolids Management – Advanced Technology
  • NRC (National Research Council) Regional Innovation Award For Sustainable Development.
Award-Winning

WEAO AWARD – EXEMPLARY BIOSOLIDS MANAGEMENT - APRIL 2013
Award-Winning

NRC - REGIONAL INNOVATION AWARD FOR SUSTAINABLE DEVELOPMENT - 2005

2005 Regional Innovation Award for Sustainable Development

Ontario Region

Awarded to

Lystek International Inc.

In recognition of your innovative contribution to the advancement of Sustainable Development

Tony Rahilly
Director General

Peter Cashmore
Executive Director

Canada
A Local Success Story

• Recognized by locally-based MPP’s Rob Leone & Michael Harris

July 9, 2013

Mr. Frederick Mosher
President
Lysetek International Inc.
1425 Bishop Street N. Unit 16
Cambridge ON N1R 5J9

Dear Mr. Mosher,

I would like to take this opportunity to extend my sincere congratulations to you on receiving the Exemplary Biosolids Management Award for 2013 from the Water Environment Association of Ontario.

This prestigious award is a well deserved recognition of your outstanding achievements. From its origins at the University of Waterloo in 2000, Lysetek is on its way to becoming a market leader in the management and re-use of organic materials. This achievement along with the provision of new jobs and greater prosperity deserves high regard and recognition.

Thank you for developing an innovative approach to solve a growing problem. I wish you luck in the growth of your business and the greatest success in the years to come.

Sincerely,

Michael Harris MPP
Kitchener-Conestoga

Congratulations

As the Member of Provincial Parliament for Cambridge,
I would like to proudly recognize

Lysetek International Inc.

In honour of receiving the award for Exemplary Bio-solids Management from the Water Environment Association of Ontario, celebrated on this, the twentieth day of June, in the year two thousand and thirteen.

“The WEAO has recognized your commitment to excellence in the advancement of technology for the preservation of our environment. Please continue your outstanding work and I wish you all the best in your future endeavors.”

Dr. Rob Leone
Member of Provincial Parliament
Cambridge
Patented & Proven

- Unique patented & proven system that diverts biosolids from landfills & transforms them into a federally registered, CFIA (Canadian Food Inspection Agency) fertilizer – in high demand from the ag sector.
Agricultural Acceptance

Dr. Singh & Staff,

On behalf of the Grey County Federation of Agriculture, we want to thank you for an excellent, very informative tour at the City of Chatham-Kent Treatment Plant. Our tour participants were very impressed. We know you have 39 new supporters of your treatment process. Thank you for also accommodating our altered timelines.

Neil Vallotton

Georgian Soil and Crop Summer Tour
Wednesday, August 14, 2013
10:00 A.M. - 3:15 P.M.
Tour Starts at the Grey Dufferin Community Pasture Farm

Tour the Grey Dufferin Community Pasture Farm
Southgate Road 12, across from fire # 126521

- Learn about the current research that will document the effect of rotational grazing on pasture yield and forage quality.
- Directions from Dundalk: Take Grey Road #9 west of Dundalk. Turn south/ left on Grey Road #8. Turn west/right on Southgate Road 12. The farm is the first set of buildings on the left side. (There isn’t a fire number at the farm, but across the road it is # 126521.)

Tour Lystek’s OMRC Plant in the Municipality of Southgate
191 Eco Parkway, Southgate

- The patented, proven and innovative Lystek process that you will see during this exciting tour of their new plant in Dundalk, transforms non-hazardous, organic materials into a safe, pathogen-free, nutrient-rich fertilizer product, called LystekGro. This unique, CFIA registered fertilizer product is high in organic matter content and it features predictable (NPK) values. Therefore, it is ideally suited to help reduce costs and improve soil performance for agriculture as well as situations where reclamation or remediation is required. Come see this remarkable process in action and find out more! Closed-toe shoes required.
- Directions from the Pasture Farm: Turn left/north onto Grey Rd #8. Turn east/right onto Grey Road #9. Turn right onto the W Back Line (also known as 86a Street S/2nd Line SW). Turn left onto Eco Parkway. Drive to the end of the street, 191 Eco Parkway, on the left.

No Admission Charge to the Farming Community

(Last name) Branch of the
Ontario Institute of Agrologists

Lystek
Nothing wasted. Everything to gain.

Sponsored by Georgian Central, initiated by South Simcoe Soil and Crop Improvement Association, in Partnership with the Huron Branch of the Ontario Institute of Agrologists. For further information, call Grey Ag Services at 519-986-3756, email info@grayagservices.ca, or check our website at www.grayagservices.ca.

Pre-registration is strongly encouraged so we can plan appropriately for the BBQ, however, it is not mandatory.
Lystek International recognized for biosolids technology

By 6:31:21 AM GMT

While some Dandelion fuel-plant developers continue to face opposition against its biosolids processing facility, the company has been recognized for its work in recent years. Lystek International has been recognized by the Water Environment Federation (WEF) for its innovative approach to turning biosolids into fuel.

Lystek International is a Canadian company that has developed a process to convert biosolids into fuel for vehicles. The company has been working on this technology for over a decade and has received several awards for its efforts.

“Lystek is a leader in the field of converting biosolids into fuel, and we are proud to recognize them for their contributions to the field,” said the WEF’s CEO, John S. association. “This recognition is a testament to Lystek’s commitment to environmental sustainability and its innovative approach to turning waste into a valuable resource.”
Regional Organic Material Recovery Centre

Approach to OMRC

Rear of OMRC
Regional OMRC – details

- State-of-the-art, fully licensed, regional receiving and production facility.
- Located in the Township’s zoned “Eco Industrial Park“ – heart of a farming community - population base of approximately 7,000 residents.
- Production capacity – up to 150,000 tonnes of fertilizer annually.
- Providing services to generators within approximately 120 km radius.
- Extensive biofilter system for treating/handling air emissions/odours.
- Fully lined & covered storage lagoons for finished CFIA fertilizer product – Total cost of construction (including storage) = under $12 million.
Inside the OMRC – Lystek System

Small footprint – fits anywhere
Reiterating Lystek’s Offer

• Willing to contract for any multi-year term (up to and including 25 years).

• Willing to take title to, and manage all (or any reasonable portion of) the Region’s annual biosolid outputs.

• Willing and able to provide financial security and bonding, as required.

• Offer to convert the Region’s biosolids into CFIA fertilizer at the Southgate OMRC at an annual, predictable cost of $4.4M (plus HST), all costs included (with only partial inflation factor going forward).

• Willing and able to provide further cost reductions through the sharing of revenues from future fertilizer sales (Lystek does all sales/marketing).
What’s in it for the Region & its Citizens?

- Capital and operating cost savings of approx. $100 million (over 25 years) as compared to the heat dryer option considered for Cambridge.

- Eliminates community concerns regarding odour, siting, health & safety.

- Safe, proven, solution that is in line with Region’s desire to be a “green” municipality while creating a regulated fertilizer with high demand.

- Additional cost recovery and operational enhancements can be realized.
What’s in it for the Region & its Citizens?

• Aligns with goals, needs and forecasted growth as identified in the Biosolids Master Plan.

• Provides local economic benefits such as much needed job creation.

• No financial, health or safety risks.

• Fiscally and environmentally responsible and sustainable over long term.
Sustainable Solutions

- Decreases organic waste
- Decreases management & disposal costs
- Decreases use of chemical fertilizers
- Increases use of organic, nutrient-rich fertilizers
- Increases yield of existing farmlands
- Help alleviate social, agricultural, economic & environmental pressures
Summary

• Thanks again to Council and Staff for listening to the concerns previously expressed and for taking the time to revisit the long term biosolids management plan for the Region.

• Reiterate Lystek’s offer, interest and commitment to help reduce costs and provide proven, sustainable long-term management solutions.

• Reiterate our formal invitation to all members of Regional Council and Staff to visit our state-of-the-art, fully licensed and operational, Organic Material Recovery Centre in the Township of Southgate, Ontario.
Thank You

Nothing wasted.
Everything to gain.

t: 226-444-0186
e: kevinl@lystek.com
w: www.lystek.com
Highlights of Progress Report
January 28, 2014
Overview

• 15th anniversary of our first multi-modal RTMP
• Supporting our community vision
• Highlights
• Moving forward
Our 15th Anniversary

Moving Cars
- RTMPs from the 1970s and 1980s

Moving People and Goods
- 1999 RTMP
- 2010 RTMP
COMMUNITY VISION
Supporting the Community Vision

- Economic prosperity
- Compact growth
- Social well-being
- Urban design excellence
- Protection of natural environment
- Protection of agricultural lands

A multi-modal transportation system is essential to realize this vision.
RTMP Goals

1. Optimize the System
2. Promote Choice

3. Foster a Strong Economy
4. Support Sustainable Development
Highlights

• Grand River Transit
• Investment in roads
• Walking and cycling
• Transportation Demand Management
• Inter-regional transportation
GRAND RIVER TRANSIT
Significant Changes

- All buses fully accessible
- Bike racks
- iXpress routes
- Automated stop announcements

Technology:
- Real time passenger information signs
- EasyGO: 5x growth (from 1 million to more than 5 million requests/year since 2008)
iXpress

- Starting 2005, now three routes
- Serves many Regional destinations:
  - Universities
  - Major shopping centres
  - Downtown cores
- Rapidly growing ridership meets and exceeds targets
  - iXpress 200: 10,000/day
  - iXpress F-H: ~3,500/day
  - iXpress Univ: ~3,500/day
Investment = Ridership

Impact of Service and Population on Transit Ridership

Region becomes responsible for transit service

- Static
- Growth
Region is Investing – ION
Region is Investing - aBRT
• GRT ridership already higher than 2016 forecast
• ION target of 25,000 rides per day, Route 7/iXpress at 20,000 now
• 2031 target of 79 transit rides/capita: Quebec City and Winnipeg have this today, with our 2031 population
REGIONAL ROADS
Regional Investment

• $250M since 2004, including:
  – Fairway Road bridge ($50M)
  – Hespeler Road railway bridge ($24M)

• Maintenance projects such as Manser Road ($4M) and Snyders Road ($2M)
Managing Traffic

• Control area optimization studies
• 19 roundabouts
• Countdown timers and accessibility improvements
  – Audible signals
  – Tactile crossings
WALKING AND CYCLING
Walk-Cycle Waterloo Region

• Increase walking and cycling
  – From 7% to 12% of peak hour trips
• About half of trips are within 5 km
• Funding and maintenance
Investing in Walking and Cycling

- Halfway to goal of sidewalks on all Regional roads
- Cycling facilities doubled since 2006 – (149 km to 289 km)
TravelWise

- Growing membership
  - 8.5% of Regional workforce
  - 23,000 employees
- Measurable shift to sustainable modes
  - 5% reduction in driving alone
  - Shifted to other modes (public transit, walking, cycling, carpool)
Community CarShare

- 3 cars in Guelph
- 1 car in Elmira
- 10 cars in Hamilton & St Catharines
- Cars soon in London & Burlington
INTER-REGIONAL TRANSPORTATION
Provincial Investment

• $150M since 2009
  – Highway 8 widening
  – Highway 7 & 8 widening

• Commitments on Highway 401 and new Highway 7
Inter-regional Transit

- GO Train service started in 2011
- 25+ buses/day on GO Bus
- Greyhound: 40 buses/day
MOVING FORWARD
Next Steps

• UW partnership
• Ongoing measurement to inform:
  – Transportation Capital Program
  – Annual Budget
• Big Shift Toolbox
• Active Transportation Master Plan
• Inter-regional transportation
  – Improved GO Train service to Kitchener
  – Expanded GO Train service to Cambridge