

**6TH REPORT OF THE**  
**ADVISORY COMMITTEE ON THE ENVIRONMENT**

Meeting held on September 2, 2015, commencing at 12:19 PM, in Committee Room #4, Second Floor, London City Hall.

**PRESENT:** M. Bloxam (Chair), J. Baxter, K. Birchall, S. Brooks, S. Hall, M. Hodge, J. Howell, C. Kushnir, L. Langdon, S. Ratz, G. Sass, B. Schulz and D. Szoller and B. Mercier (Secretary).

**ABSENT:** C. Baranik.

**ALSO PRESENT:** S. Armstrong, K. Chambers, J. Stanford and E. Veittiaho.

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**I. CALL TO ORDER**

1. Disclosures of Pecuniary Interest

That it **BE NOTED** that no pecuniary interests were disclosed.

**II. ORGANIZATIONAL MATTERS**

2. Orientation – Accessibility for Ontarians with Disabilities Act (AODA) – Integrated Accessibility Standards

That it **BE NOTED** that an orientation of the *Accessibility for Ontarians with Disabilities Act* (AODA) Integrated Accessibility Standards, was received.

**III. SCHEDULED ITEMS**

3. Orientation - Environmental and Engineering Services and Wastewater and Drainage Engineering

That it **BE NOTED** that the attached orientation presentations were received from:

- a) the Director of Environment, Fleet and Solid Waste, with respect to Environmental and Engineering Services; and,
- b) K. Chambers and E. Veittiaho, Environmental Service Engineers, with respect to Wastewater and Drainage Engineering;

it being noted that the Advisory Committee on the Environment also reviewed and received a report dated April 20, 2015, from the Director of Environment, Fleet and Solid Waste, with respect to Environmental Programs.

**IV. CONSENT ITEMS**

4. 5th Report of the Advisory Committee on the Environment

That it **BE NOTED** that the 5th Report of the Advisory Committee on the Environment from its meeting held on May 6, 2015, was received.

5. 3rd Report of the Transportation Advisory Committee

That it **BE NOTED** that the 3rd Report of the Transportation Advisory Committee from its meeting held on May 5, 2015, was received.

6. Notice of Second Draft of the London Plan

That it **BE NOTED** that the Notice dated May 21, 2015, from H. McNeely, Senior Planner, with respect to an application submitted by the City of London relating to the second draft of The London Plan, was received.

**V. SUB-COMMITTEES & WORKING GROUPS**

7. Sub-Committee Updates

That it **BE NOTED** that a communication dated May 21, 2015, from S. Ratz, with respect to the Advisory Committee on the Environment (ACE) Sub-Committees, was received; it being noted that the ACE heard verbal updates from the Waste Management and the Education Sub-Committees.

**VI. ITEMS FOR DISCUSSION**

8. ACE Best Practices

That the matter of the Advisory Committee on the Environment (ACE) best practices **BE DEFERRED** to a future meeting of the ACE.

9. 2016 Mayor's New Year's Honour List - Nominations Requested

That it **BE NOTED** that the Advisory Committee on the Environment (ACE) reviewed and received a communication dated August 5, 2015, from the City Clerk, with respect to the 2016 Mayor's New Year's Honour List (MNYHL); it noted that Members were encouraged to consider nominations for the MNYHL to bring forward.

**VII. DEFERRED MATTERS/ADDITIONAL BUSINESS**

None.

**VIII. ADJOURNMENT**

The meeting adjourned at 2:50 PM.

**NEXT MEETING DATE: October 7, 2015**



## Environmental & Engineering Services (EES): Highlights of services, actions, challenges and opportunities as identified November 2014 (generally within the mandate of the Advisory Committee on the Environment )



## ACE'S MANDATE

The Advisory Committee on the Environment is responsible for the following:

to serve as an advisory, resource and information support group to the Planning and Environment Committee, the Municipal Council, and its Committees as required, and to the citizenry to encourage and promote sustainable programs and functions such as the following:

- remedial planning toward the clean-up of contaminated areas;
- waste reduction, reuse and recycling programs;
- water and energy conservation measures;
- climate change mitigation;
- to investigate such other aspects of environmental concerns as may be suggested by the Municipal Council, its other Committees, or the Civic Administration; and
- to initiate and/or receive submissions and/or delegations regarding any environmental concerns and to report with recommendations to the Planning and Environment Committee.



## Overview of EES

- Regional Water Supply

### Water, Wastewater & Treatment

- Water Operations
- **Water Engineering**
- **Stormwater Management**
- Industrial Land Development
  - Sewer Operations
- **Wastewater Treatment Operations**
- **Wastewater & Drainage Engineering**

### Roads & Transportation

- Construction Administration
- Roadway Lighting & Traffic Control
- **Transportation Planning & Design**
- Transportation & Roadside Operations
- Geomatics

### Environment, Fleet & Solid Waste

- Environmental Programs
- Fleet & Operational Services
- Solid Waste Collection
- Solid Waste Management

NOTE: Bold and larger font identifies services generally within ACE's mandate 3



## MANAGING DIRECTOR & CITY ENGINEER

Lead Name: **John Braam, Managing Director & City Engineer**

Telephone: 519.661.2500 x2391 e-mail: jbraam@london.ca

### Overview

We are proud and committed to Londoners, employers and visitors. We are a large Service Area called Environmental & Engineering Services (EES). It is virtually impossible for anyone in London to get through a day without taking advantage the many public services offered to our community by EES. From the water we drink, to the roads and bridges we drive on, our work and services are visible all year long, day and night, from season to season.

EES undertakes approximately 200 capital works projects and programs yearly and is responsible for an annual budget of \$360 million (averaging a daily expenditure of approximately \$1 million). To be accountable and results-oriented for this expenditure requires over 1,000 full, part-time and contracted employees to complete a diverse array of engineering, construction, operations and maintenance services. Many of our activities occur 24 hours per day, 7 days a week.



## Environmental & Engineering Services



## MANAGING DIRECTOR & CITY ENGINEER



### Our Purpose (Mission) and Goals

Our purpose (mission) is to provide safe, dependable, affordable and environmentally responsible services that help London's communities thrive and the city prosper. Ensuring that we solve today's complex problems while navigating tomorrows technology driven solutions is essential to managing sustainability and best value for our services.

Our two priority goals are 1) to engage and meet our customers' needs, and 2) to protect the environment and encourage an environmentally sensitive and sustainable city.

To meet our goals and fulfill our mission, our core areas include:

- Regional Water Supply
- Water, Wastewater and Treatment
- Roads and Transportation
- Solid Waste Management

Our technical, operational and multi-disciplinary collaboration services include: Construction Administration, Environmental Programs, Fleet and Operational Services, Geomatics, and Industrial Land Development.

## Environmental & Engineering Services



## WATER, WASTEWATER & TREATMENT 2014

Lead Name: **John Lucas, Director – Water, Wastewater & Treatment**

Telephone: 519.661.2500 x5537 e-mail: jlucas@london.ca

### Who We Are

This area has, as its primary reason for existing, a focus on the protection of public health and the environment through the delivery of clean drinking water, by reclaiming water after it has been used and by disposing of contaminants removed from it in a safe manner. Water and Wastewater are highly regulated public utilities that require the application of science and engineering to plan, design, construct and operate complex systems, as well as personal commitment from decision makers.

London staff have specific training for their roles, many with significant years of service and knowledge that they share from the local to international scene.

We also provide other services for the benefit of Londoners that are based on continuous improvement principles and methods - like how we manage construction projects - and technical services to support Corporately managed economic development initiatives.

Our basic services are funded by user rates, not property taxes. As such, customer service expectations are specific to the value received – in our case, the value of water in all its forms. Clear accountabilities and financial objectives help to complete the value of water statement with a long term view to be sustainable in everything we do.

## Water, Wastewater & Treatment Environmental & Engineering Services





## WATER ENGINEERING 2014

**Lead Name: Roland Welker, Division Manager – Water Engineering**  
Telephone: 519.661.2500 x5593 e-mail: rwelker@london.ca

### Services Provided

- Long range planning and design to address growth and renewal
- Infrastructure condition assessment using historical data and innovative technologies
- Conservation and education
- Billing system for water and wastewater
- Provide customer service on water accounts
- Source Water Protection for the standby wells
- Ensure regulatory compliance by decommissioning production wells which were previously abandoned
- Maintain the City's water distribution model for hydraulic capacity and water quality analyses
- Backflow Prevention Program to ensure the safety of municipal drinking water
- Development application reviews



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## WATER ENGINEERING 2014

### Recent Accomplishments (2012-2014)

- New funding model for the water, wastewater and stormwater utilities
- Updated Water Financial Plan achieving financial sustainability by 2016 with minimal debt
- Developed a calibrated computer model of the water distribution system for hydraulic capacity and water quality analyses
- Undertook energy optimization at two of the City's eight pumping stations and received grants to undertake the work.
- Prepared [web-based teacher resource material](#) for elementary and high schools to improve awareness and educate students on the water system



### Challenges & Opportunities (2015-2018)

- Build appropriate reserve fund going forward in a period of declining water sales
- Continue the development of teacher resource materials in partnership with the school boards to improve the understanding of the value of water
- Continue the use of structural lining technology using trenchless techniques versus full replacement
- Utilize computer model of the distribution system to optimize energy usage at the pumping stations and undertake a vulnerability assessment of the system
- Complete condition assessment of 20% of the large diameter water mains inside London

Your Bill is Changing



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## WASTEWATER & DRAINAGE ENGINEERING 2014

**Lead Name: Tom Copeland, Division Manager – Wastewater & Drainage Engineering**  
Telephone: 519.661.2500 x4662 e-mail: tcopelan@london.ca

### Services Provided

- Rebuild sanitary and storm sewer servicing infrastructure that is at the end of its lifespan
- Plan and construct sanitary servicing to accommodate a growing City
- Resolve system wide problems such as basement flooding and combined sewer overflows
- Bylaws / Policies / Design Standards updates and management
- Customer Liaison / Management of Sump Pump Grant Program
- Liaise with internal and external groups and agencies on issues such as: development and growth, system optimization, industrial land servicing emergency services and health of Thames River
- Division Manager serves as London's Municipal Flood Coordinator



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## WASTEWATER & DRAINAGE ENGINEERING 2014

### Challenges and Opportunities (2015 – 2018)

- York and King Streets Sewer Separation Strategy: The existing combined sewers downtown represent 3,400 linear meters of pipe that were installed between 1852 and 1926. Separation and replacement of these combined sewers will allow for the intensification of the downtown core.
- Construct Development Charges funded sanitary servicing works in the southwest quadrant
- Develop, budget and construct mitigation works to reduce combined sewer overflows and bypasses to the Thames River
- Completion of trunk works in the Burbrook/Vauxhall area that will allow the separation of combined sewers and reduce the likelihood of basement flooding



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## STORMWATER MANAGEMENT 2014

**Lead Name: Scott Mathers, Division Manager – Stormwater Management**  
Telephone: 519.661.2500 x4430 e-mail: smathers@london.ca

### Services Provided

- Protection of the environment through the quality and quantity control of stormwater
- Water resources planning and the implementation of Regional stormwater management facilities
- Manage the water resources component of climate change adaptation
- Maintain and manage the repair and reconstruction of the City's system of dykes with agency partners
- Support development through the review of stormwater servicing development studies
- Respond to and mitigate flooding complaints



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## STORMWATER MANAGEMENT 2014

### Recent Accomplishments

- Constructed the Hyde Park #4 Stanton Drain Stormwater Management Facility
- Transition of all new SWM facility design and construction management to the City through the approval of the Development Charges bylaw
- Development of new Wildlife Management Policy in conjunction with Planning
- Constructed the Old Victoria #2 Stormwater Management Facility

### Challenges & Opportunities (2015 – 2018)

- Completion of Climate Change Adaptation Water Resource Strategies
- Implementation of Regional SWM facilities as identified in the Growth Management Implementation Strategy
- Construction of the Dingman Creek Erosion Control Facility
- Construction of Fox Hollow #1 Stormwater Management Facility Phase 1



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## WASTEWATER TREATMENT OPERATIONS 2014

**Lead Name: Geordie Gauld, Division Manager – Wastewater Treatment Operations**  
Telephone: 519.661.2437 e-mail: ggauld@london.ca

### Services Provided

- Water recovery and environmental protection
- Operations and maintenance of Wastewater Treatment Plants and Pumping Stations
- Maintenance, Electrical and SCADA support services for Water and Solid Waste
- Wastewater Capital Works including facility expansions and upgrades



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## WASTEWATER TREATMENT OPERATIONS 2014

### Recent Accomplishments (2012 - 2014)

- Biosolids upgrades completed at Greenway (2013) with \$400,000 in annual operations savings and \$33 million in deferred Capital Expenditures
- International Water Centre of Excellence (IWCE) completed at Greenway (2014)
- Greenway Ash System
  - 2012 Ontario Public Works Association and American Public Works Association-Technical Innovation Award
  - 2014 Water Environment Association of Ontario-Exemplary Biosolids Award
- Vauxhall Plant Upgrades-2014 Ontario Consulting Engineers-Award of Merit
- Vauxhall high efficiency blower upgrade-\$340,000 installed cost with \$130,000 in annual hydro savings plus \$205,000 Ontario Power Authority incentives



### Challenges & Opportunities (2015 – 2018)

- Greenway Expansion-construction will begin in spring 2015.
- The Optimization Strategy will provide a roadmap for future works including:
  - wet weather treatment improvements
  - flood proofing
  - capacity expansions and optimization
  - life cycle renewals
  - efficiency upgrades
- Establish IWCE as a World Class Research and testing facility

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## ROADS & TRANSPORTATION 2014

**Lead Name: Edward Soldo, Director – Roads & Transportation**  
Telephone: 519.661.2500 x4936 e-mail: esoldo@london.ca

### Who we are

The Roads and Transportation area is responsible for **Transportation Mobility Management** delivered through a customer focused lens.

The area is divided into 5 divisions, delivering infrastructure projects, maintaining assets and operating our infrastructure in a safe, efficient and sustainable manner.



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## TRANSPORTATION PLANNING & DESIGN 2014

**Lead Name: Doug MacRae, Division Manager – Transportation Planning & Design**  
Telephone: 519.661.2500 x4637 e-mail: dmacrae@london.ca

### Services Provided

- Implementation of capital projects identified in the Transportation Master Plan
- Delivery of the Rapid Transit initiative
- Renewal of transportation lifecycle assets
- Effective response to operational and safety concerns
- Engineering and Education for Traffic Safety Initiatives
- Implementation of Active Transportation (walking and cycling) facilities
- Transportation Asset Management



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## TRANSPORTATION PLANNING & DESIGN 2014

### Recent Accomplishments (2012 - 2014)

- Completion of the Transportation Master Plan and incorporation of projects into the approved Development Charges by-law
- Hyde Park Road Improvements (underway)
- King Street and Meadowlily Century Bridge Rehabilitations
- Hwy 401 / Wonderland Road New Interchange (underway)
- Wonderland Road / Sunningdale Road Roundabout
- Over 12 km of new sidewalks in priority areas
- Gore Road Bridge Replacement
- Southdale Road Improvements

### Challenges & Opportunities (2015 - 2018)

- Implementation of the Smart Moves Transportation Master Plan will improve mobility and support economic growth and quality of life for Londoners
- The Rapid Transit initiative will lay the groundwork for enhanced sustainable mobility options for all Londoners in the coming decades and will promote/catalyze infill and intensification opportunities consistent with the draft London Plan.
- A new Cycling Master Plan will identify future actions to promote mobility choices that improve the quality of life and health of Londoners.



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## ENVIRONMENT, FLEET & SOLID WASTE 2014

**Lead Name: Jay Stanford, Director – Environment, Fleet & Solid Waste**  
Telephone: 519.661.2500 x5411 e-mail: jstanfor@london.ca

### Who We Are

The area known as Environment, Fleet & Solid Waste contains a variety of internal and external services operating under two 'Calls to Action'. First we live under a philosophy of **Continuous Improvement** and, second, we operate under an operational banner called **At Your Service**. The area contains excellent and dedicated staff with a number having more than 25 years experience in their respective fields.

We are also fortunate to work with or alongside some of the best private sector companies and their employees that the business has to offer. The skills and business smarts exhibited by our contractors is an asset to the businesses and residents of London.

The area is divided into 4 divisions, with each division delivering numerous programs and projects. Our top 3 collective goals are:

1. Meeting or exceeding customer expectations
2. Delivering valued services in a cost effective and safe manner
3. Protecting and improving the environment through service delivery and community engagement



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## ENVIRONMENTAL PROGRAMS 2014

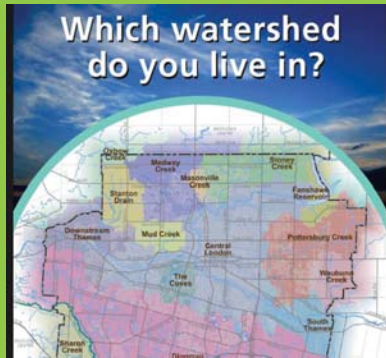
**Lead Names: Jamie Skimming; Pat Donnelly – Environmental Programs**  
 telephone: 519.661.2500 x5204; x0418 e-mail: jskimmin@london.ca; pdonnell@london.ca

### Services Provided

- Active Transportation, Cycling and Transportation Demand Management
- Air quality, climate change, energy conservation & community energy programs
- Corporate Energy Management
- Urban watershed programs
- Community outreach & engagement
- Support for corporate environmental actions

### Key Performance Indicators

- Engaged 40 stakeholder groups
- Engaged 10 neighbourhoods and communities
- Participation in 25 community events
- Supported 7 corporate actions, including Rethink London and the Climate Change Adaptation Strategies Project



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## ENVIRONMENTAL PROGRAMS 2014

### Challenges & Opportunities (2015 – 2018)

- Senior government energy policies and programs will have significant influence on how London's *Community Energy Action Program (CEAP)* is implemented.
- The London Plan will have significant influence on the implementation of several program areas including watersheds, the CEAP as well as the longer-term Comprehensive AT and TDM Actions.
- Greater emphasis will be placed on working with key stakeholders and community champions who can influence a large number of Londoners.
- New programs related to implementation of Source Water Protection will expand education activities for water conservation and protection.
- New information technologies and new/social media provides challenges and opportunities for reaching out to Londoners



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**DRAFT**

### Don't IDLE your trucks!

The City of London reminds all drivers not to idle more than 2 minutes while at construction work sites.

**It's the LAW!**

- Turn the key off to avoid a ticket. If parked and waiting, there is a 2 minute limit for idling, unless the weather is above 27°C or lower than 5°C.
- It is illegal to leave an idling vehicle unattended at anytime!

**What happens if you idle 4 hours/day for the whole year?**

<p><b>Wear &amp; Tear</b> It's like an extra 8,000 km of mileage on your engine each year!</p>	<p><b>Wastes Fuel</b> Over 3,000 litres = \$3,300 wasted every year!</p>	<p><b>Impact on Environment</b> Produces 8 tonnes of CO<sub>2</sub> per year, and noise and air pollution too!</p>
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**Thanks for doing your part!**  
 Please contact: Paul Choma, Construction Administration, 519-661-2500 Ext. 2675

**DRAFT**

## FLEET & OPERATIONAL SERVICES 2014

**Lead Name: Mike Bushby, Division Manager – Fleet & Operational Services**  
 Telephone: 519.661.2500 x4961 e-mail: mbushby@london.ca



- ### Services Provided
- Fleet Administration and Asset Management
  - Fleet Planning – Capital Acquisitions and Disposal
  - Fleet Maintenance – Fleet Repairs and Service
  - Fuel Management – Supply Storage and Dispensing Facilities
  - 24/7 Operational Dispatch Centre
  - 2-Way Radio System – Programming and Radio Asset Management
  - Scheduling external equipment resources

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## FLEET & OPERATIONAL SERVICES 2014

### Recent Accomplishments (2012 - 2014)

- Introduced B5 (Biodiesel) significantly reducing our emissions and environmental impact
- Expanded shared services model, EMS and Fire actively using public works refuelling infrastructure saving money and effectively utilizing public infrastructure
- Completed PwC internal audit process
- Fleet Challenge E3 (Energy, Environment, Excellence) review process underway
- Met operating and capital budget reductions annually over the last three years
- Introduced the first completely electric vehicle with "0" emissions into the fleet

### Challenges & Opportunities (2015 – 2018)

- Actions plans initiated to evaluate and maximize employee engagement
- Targets identified for promoting "At Your Service" philosophy
- Continued spending and cost reductions while maximizing sustainable, affordable, safe, and "right fit" fleet solutions for our customers



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## SOLID WASTE COLLECTION 2014

**Lead Name: Kevin Springer, Manager – Solid Waste Collection**  
 telephone: 519.661.2500 x5578 e-mail: kspringe@london.ca  
 Environmental & Engineering Services Call Center: 519.661.4570

### Services Provided

- Curbside Pickup
- Multi-residential Pickup
- Leaf & Yard Waste Pickup
- Downtown & Litter Bin/Container Pickup
- Special Pickups

### General Statistics

- 28 rear packers; 3 side loaders; 5 top loaders
- 120,000 households collected curbside
- 51,000 multi-units collected
- 92,000 tonnes of garbage collected per year
- 10,000 tonnes of leaf and yard waste collected per year



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## SOLID WASTE COLLECTION 2014

### Challenges & Opportunities (2015 – 2018)

- The physical nature of garbage pickup from a health and safety perspective will be further examined by City staff. This will include examining how garbage is placed at the curb, type of containers and type of collection vehicles.
- Meeting customer needs and expectations remains our number one priority and having the right balance of services, cost and expectations is key.
- Fuel costs continue to rise, prompting the need to examine the future potential role of compressed natural gas (CNG).
- Reducing/containing costs continues to be a challenge as the city grows in the north end increasing the hauling distance to the W12A Landfill site in the south end.
- Health and safety, training and more stringent Provincial Government regulations and policies with respect to garbage collection remain a high priority and are being addressed through programs and technology.



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## SOLID WASTE MANAGEMENT 2014

**Lead Name: Wesley Abbott, Division Manager – Solid Waste Management**  
telephone: 519.661.2500 x1812 e-mail: wabbott@london.ca  
Environmental & Engineering Services Call Center: 519.661.4570

### Services Provided

- Recycling
- Composting
- EnviroDepots & Household Special Waste Depot
- Community Outreach and Engagement
- Waste Disposal
- Management of Closed Landfills
- Contract Management
- Long Term Solid Waste Management Planning

### Key Performance Indicators

- Waste Diversion Rate of 44% (69,000 tonnes annually)
- Captured and destroyed 113,000 tonnes of Greenhouse Gases equal to removing 30,000 cars from the road
- Total gross cost of \$79 per household per year
- Net operating cost of \$33 per household per year



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## SOLID WASTE MANAGEMENT 2014

### Challenges & Opportunities (2015 – 2018)

- The City needs to continue planning for long term disposal capacity (next 40 years) as the W12A Landfill only has 9 to 12 years of capacity remaining. The Environmental Assessment process will begin in late 2015 and take 3 to 5 years.
- The area around the W12A Landfill allows for various resource recovery facilities to be located. The first resource recovery facility to be sited on these lands was the City's new Regional MRF (recycling centre). The opportunity exists to establish more resource recovery facilities.
- Waste diversion initiatives/programs in *Road Map 2.0 - The Road to Increased Resource Recovery and Zero Waste* and the *Interim Waste Diversion Plan 2014-2015* will be implemented subject to available budget.
- There are several factors beyond the control of the City that may have a dramatic impact on the funding, timing and requirements (e.g., expected introduction of new Provincial waste diversion legislation, increased environmental protection).



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# Questions?





## Introduction to the Wastewater and Drainage Engineering (WADE) Division

September 2, 2015



## Who We Are

- Professional Engineers and Certified Technologists
- Based on the 9<sup>th</sup> floor of City Hall, field work performed throughout London
- Committed to providing safe, cost-effective, dependable and environmentally conscious sewerage and drainage services for its customers



## Services Provided

- Lifecycle Replacement  
Management of Capital Programs
- System Improvements  
Reducing basement flooding, overflows and bypasses
- Growth  
Development Planning and Approvals
- Customer Liaison



Installed Backflow Valve



## Lifecycle Renewal Program

### Lifecycle Renewal Program

- Older infrastructure requires replacing
- Economically advantageous to replace it before it fails



## System Improvements



- To determine best means to reduce overflows and bypasses and to prevent basement flooding
- Pollution Prevention Control Plan (PPCP)
- Basement flooding grant program

Interactive basement flooding image

For more info please visit [www.london.ca/ppcp](http://www.london.ca/ppcp) and [www.london.ca/sumppumpgrant](http://www.london.ca/sumppumpgrant)



## Infrastructure Growth

- Expansion of the City's sanitary sewerage system to support future residential, institutional, commercial and industrial lands







## Future Outlook

- Reduce basement flooding and sewer overflows
- Renew aging infrastructure (Infrastructure Renewal Program)
- Undertake capital projects to support growth and intensification (Growth Management Implementation Strategy [GMIS])