

2

WATER AND WASTEWATER CAPITAL INFRASTRUCTURE STATUS UPDATE REPORT

The Environmental Services Committee recommends:

- 1. Receipt of the presentation by Daniel Kostopoulos, Director, Capital Planning and Delivery; and**
- 2. Adoption of the recommendation contained in the following report dated March 28, 2011, from the Commissioner of Environmental Services.**

1. RECOMMENDATION

It is recommended that:

1. The Regional Clerk circulate this report to the Clerks of the local municipalities.

2. PURPOSE

This report updates Regional Council on the status of key water and wastewater infrastructure projects required to meet system demands identified as triggers for release of additional capacity and approvals under the *Planning Act*.

3. BACKGROUND

Capacity assigned to local municipalities serviced by York Durham Sewage System totaling 1,078,328 people to facilitate growth to the end of 2013

In 2003, delays with key infrastructure projects were impacting the Region's ability to allocate sewage capacity to local municipalities. Between 2003 and 2005, staff completed extensive investigations to determine the allowable increase in allocation capacity in the York Durham Sewage System triggered by completion of planned infrastructure projects. Regional Council, at its meeting on June 23, 2005, granted the release of additional servicing capacity to accommodate up to 970,000 people within the York Durham Sewage System and Peel diversion service areas, subject to the completion of a number of trigger projects including Duffin Creek Water Pollution Control Plant Stage 3 Liquid Process Expansion and the Southeast Collector Trunk Sewer. This capacity assignment was intended to facilitate growth to the end of 2010.

In 2007, it was recognized that the completion date of Southeast Collector trunk Sewer will be at least two years later than the Duffin Creek Water Pollution Control Plant Stage 3 Liquid Process Expansion which was on schedule for completion in 2010. To bridge the capacity gap, three flow control gates were proposed in selected locations in the York Durham Sewage System to attenuate peak flows and provide the interim capacity needed to service growth between 2011 and 2012. Regional Council, at its meeting on November 15, 2007 and December 18, 2008, assigned a combined additional capacity of 72,000 people to local municipalities. The flow control gates were subsequently installed in 2010.

On February 18, 2010, Regional Council assigned an additional capacity assignment of 36,328 people. This assignment is intended to facilitate growth to the end of 2013, and together with previous assignments will permit a total serviced population up to 1,078,328 within the York Durham Sewage System and Peel diversion service areas.

The major constraint to permit growth beyond 2013 is conveyance capacity limitations in the existing Southeast Collector Trunk Sewer. With growth in the Region being slower than forecasted in 2009 and 2010, local municipalities will have an ability to maintain their forecast growth rates beyond 2013 into 2014 which is in line with the current targeted commissioning date for the new Southeast Collector Trunk Sewer.

The last update to Council on trigger projects was provided on January 27, 2011. The next update is scheduled for fall 2011.

4. ANALYSIS AND OPTIONS

ALLOCATION TRIGGERS

Capacity triggers allow the Region to ensure occupancy of new homes timed to coincide with available water and wastewater services

Monitoring the progress of trigger projects assists the Region in better controlling two key steps in the planning approvals process:

- Pre-sale of homes
- Final plan approvals

Capacity trigger control is required to avoid premature occupancy of new dwellings in advance of required availability of municipal water and wastewater services.

In general, pre-sales of homes are only permitted if the required infrastructure is expected to be in place within one year and final plan approvals are granted if the required infrastructure is expected to be in place within six months. At the discretion of the local municipality, high-density development may move to final approval within eighteen

months of completion of required infrastructure and complex high-rise developments within thirty six months of completion of required infrastructure.

Projects identified to service assigned capacity of 1,078,328 people

Most trigger projects required to service up to 1,078,328 people have been completed. Remaining projects include:

- King City Water Supply
- Queensville/Holland Landing/Sharon York Durham Sewage System connection
- Queensville Elevated Tank No. 1
- Richmond Hill Oak Ridges Elevated Tank No. 2
- Leslie Street Watermain

Major projects required to service growth beyond 1,078,328 people for the ten-year period between 2011 and 2021 include:

- Southeast Collector Trunk Sewer
- Duffin Creek Water Pollution Control Plant Stages 1 and 2 Upgrades
- Duffin Creek Water Pollution Control Plant outfall
- Upper York Sewage Solutions
- Toronto East Water Supply
- West Richmond Hill Pumping Station
- West Vaughan Sewage Servicing
- Primary Trunk Sewer

KEY PROJECT STATUS HIGHLIGHTS

Most Trigger projects associated with 1,078,328 people capacity assignment completed or near completion

Except for Queensville/Holland Landing/Sharon servicing projects, all remaining projects required to service up to 1,078,328 people are within six months of completion. Of the 1,078,328 people capacity assigned by Regional Council, capacity for 36,328 people was assigned in February 2010. The trigger conditions for final plan approval for assignments prior to February 2010 have been met except for Queensville/Holland Landing/Sharon. The Region advised local municipalities that final plan approval can proceed for all service areas except Queensville/Holland Landing/Sharon.

The February 2010 capacity assignment was conditional upon Ministry of the Environment approval of the Southeast Collector Trunk Sewer Individual Environmental Assessment and commitments of local municipalities to partner with the Region to implement local and regional inflow and infiltration reduction programs. All nine local municipalities have passed resolutions in support of the inflow and infiltration reduction program and water conservation and efficiency program. Therefore, both conditions have been met. Based on current forecast of the Southeast Collector Trunk Sewer completion

date and at the discretion of local municipalities, December 2011 is the projected date for permitting pre-sales for low-rise residential units. June 2011 is the projected date for permitting final approval for high-rise residential units.

The status of remaining projects required to service 1,078,328 people are summarized below and in *Attachment 1*. Project locations are illustrated in *Attachment 3*.

Duffin Creek Water Pollution Control Plant Stage 3 Expansion on track

The Duffin Creek Water Pollution Control Plant Stage 3 Liquid Process Expansion was commissioned. The Enhanced Phosphorous Removal contract is approximately 60% complete (last reported 40%) and the main construction contract for Stage 3 Solids Process Expansion awarded in November 2009 is approximately 65% complete (last reported 45%). The Solids Process Expansion is scheduled for completion in the second quarter of 2012 (last reported: second quarter of 2012).

King City Water Supply scheduled to be commissioned in summer 2011

The King City Water Supply project is comprised of a new elevated tank and watermain connection to the York Water System. Both the elevated tank and watermain are under construction. As a result of construction delays of two pressure sustaining valve chambers, the project is now expected to be commissioned in summer 2011 (last reported: first quarter of 2011). More details are provided in a separate report entitled “King City Water Supply Project Update and Partnership Approach to Implement Additional Local Works” to the April 13, 2011 Environmental Services Committee.

Richmond Hill Elevated Tank No. 2 scheduled for completion by end of April 2011

Completion of the new elevated tank in Oak Ridges is expected by the end of April 2011 (last reported: April 2011). Decommissioning of the existing water standpipe, included as part of the construction contract, will be completed by October 2011 (last reported: October 2011).

Leslie Street Watermain scheduled for completion in August 2011

The Leslie Street watermain is required to service the Aurora East pressure district which primarily includes lands east of Leslie Street in Aurora with a small portion in Newmarket immediately north of the Aurora/Newmarket municipal boundary. The work was awarded in July 2010 and the Notice of Construction was issued in September 2010. The project is expected to be completed in August 2011 (last reported: August 2011).

With the Leslie Street watermain expected to be completed within six months, the Region advised Town of Aurora and Town of Newmarket in February that final plan registration for units in the Aurora East service area can proceed.

Queensville/Holland Landing/Sharon servicing strategy under review

Both the Queensville/Holland Landing/Sharon York Durham Sewage System connection and Queensville water storage tank No. 1 contracts were tendered and closed in December 2010. The post-tender project cost for Queensville/Holland Landing/Sharon York Durham Sewage System connection is estimated at \$170 million. This servicing strategy is under review given that the tendered project cost is significantly higher than originally anticipated.

Key infrastructure projects identified for servicing beyond 1,078,328 people

Status of key projects required to service beyond 1,078,328 people is summarized below and in *Attachment 2*. Project locations are illustrated in *Attachment 3*.

Southeast Collector Trunk Sewer scheduled to be commissioned in 2014

The Southeast Collector Trunk Sewer Individual Environmental Assessment was approved by Ministry of the Environment on March 31, 2010, subject to a number of stringent conditions to be met within stipulated timelines. The Region has given top priority in achieving the Individual Environmental Assessment approval conditions. Substantive progress has been made on all of the Conditions of Approval and all required submissions to the Ministry of the Environment have been made on or ahead of schedule. Further, the Southeast Collector Advisory Committee was formed and meetings have been held to review the various issues to be addressed as per its mandate under the Conditions of Approval. The inflow and infiltration reduction and water conservation and efficiency strategies were submitted to the Ministry of the Environment in March 2011 in accordance with the conditions of Southeast Collector Trunk Sewer Individual Environmental Assessment approval. The Water and Wastewater Task Force Steering Committee, comprised of staff from both the Region and local municipalities, continues to meet regularly to implement the strategies.

The construction start date is scheduled for late spring 2011 (last reported: spring 2011) and the commissioning date for Southeast Collector Trunk Sewer is forecasted to occur in late 2014 (last reported: mid 2014).

Tenders for the tunnel contract were issued on January 18, 2011. Activities noted below are completed:

- Manufacturing of four tunnel boring machines
- Contract for rehabilitation, improvement and resurfacing of haul roads to move materials from the tunnel operation to a suitable site
- Phase 1 of Bob Hunter Memorial Park/Rouge Park enhancements
- Archaeological investigations for First Nation commitments

Manufacturing of the segmental liner materials for the tunnel construction and property acquisition of lands required for the project are near completion. Property acquisition is not expected to impact construction schedule.

Duffin Creek Stages 1 and 2 Upgrade in detailed design stage

Regional Council, at its meeting dated April 22, 2010, approved funding to proceed with the Duffin Creek Water Pollution Control Plant Stages 1 and 2 Upgrade. This work is required as a condition of the Ministry of the Environment Certificate of Approval (Air) for Duffin Creek Water Pollution Control Plant Stage 3 Expansion.

Duffin Creek Stages 1 and 2 Upgrade is currently in detailed design. Construction is scheduled to start in 2011 with substantial performance expected in 2016 (last reported: 2016).

To comply with the Ministry of the Environment Certificate of Approval (Air) Conditions, reports have been submitted to the Ministry of the Environment on the ambient odour monitoring program conducted through the summer of 2010 as well as the best in class technology review to guide the odour mitigation measures required for the Stages 1 and 2 Upgrade. Comments from the Ministry of the Environment and the Town of Ajax have been received and responses are being prepared. Emissions testing, ambient odour monitoring, odour dispersion modeling and preparation of an odour management plan are scheduled for completion in 2017.

Environmental assessment underway for Duffin Creek Plant effluent outfall

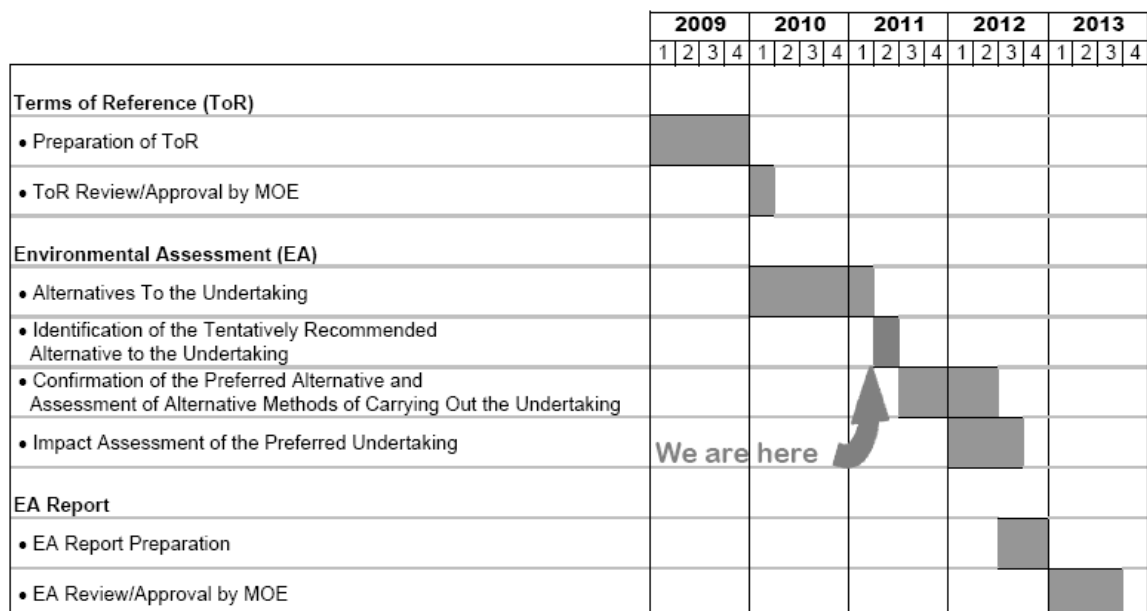
York Region and the Region of Durham have jointly initiated a Schedule C Class Environmental Assessment study to identify the preferred solution of addressing limitations of the existing outfall and diffuser system at the Duffin Creek Water Pollution Control Plant. The present flow capacity limit is 520 ML/day, capable of accommodating growth to 2017. The preferred solution will permit the Duffin Creek Water Pollution Control Plant to operate at a capacity of 630 ML/day to meet growth to around 2031. The Environmental Assessment will be undertaken to satisfy requirements of the Municipal Class Environmental Assessment and the Canadian Environmental Assessment process as one harmonized study.

Notice of commencement of this study was issued in late 2010. Work to collect offshore geotechnical information by using a barge and associated drilling equipment has been suspended through winter and will be resumed in spring 2011. A Stakeholder Advisory Committee was formed and the first public meeting under the Class Environmental Assessment process is planned for spring 2011. The Environmental Assessment study is expected to be completed in 2012 and construction of the outfall is expected to be completed in 2016 (last reported: 2016).

Tentatively Recommended Alternative for Upper York Sewage Solutions Identified

The Terms of Reference for the Upper York Sewage Solutions was approved by the Minister of the Environment on March 11, 2010 with the amendment of “Innovative Wastewater Treatment Technologies” as a fourth Alternative to the Undertaking. The project team met with Ministry staff to resolve issues around the Minister mandated alternative that were necessary to confirm the viability and approvability of the alternative for the Environmental Assessment. The Upper York Sewage Solutions Team identified the “Water Reclamation Centre with associated collection and conveyance infrastructure systems located in York Region” as a sustainable and environmentally sound alternative for the Upper York Sewage Solutions Environmental Assessment. This Water Reclamation Centre alternative involves discharge of treated water of a quality that will help to restore the Lake Simcoe watershed and provide reclaimed water for non-potable services. This tentatively recommended alternative will be presented to the public and other key stakeholders for input and comment in spring 2011 at Public Information Sessions. Subject to adequately addressing concerns raised by stakeholders and the public and resolving other risk issues associated with this alternative, the next step is to finalize the preferred alternative and complete the alternative methods of carrying out the undertaking. Approval of the Individual Environmental Assessment by the Minister of the Environment is currently projected to occur in late 2013. The Individual Environmental Assessment key process steps and schedule are provided in Figure 1. Completion of the overall project is currently scheduled for late 2018 (last reported: late 2018). The completion date will be reviewed and updated once the environmental assessment is approved.

Figure 1
Upper York Sewage Solutions – Individual Environmental Assessment
Key Process Steps and Schedule



Toronto East Water Supply expected to be completed by December 2012

The Toronto East Water Supply project is required to provide additional water from Toronto to Markham pressure district six to meet long-term growth demands. A 1500 mm diameter watermain is proposed to be constructed along Kennedy Road from the Milliken Pumping Station on 14th Avenue to Major Mackenzie Drive. The work will be completed under two contracts. The first contract is for open cut construction from north of Highway 7 to Major Mackenzie Drive and the second contract is for tunnel construction from Milliken Pumping Station to north of Highway 7. The open cut section construction contract was awarded in January 2011. Due to unanticipated need for the relocation of overhead hydro utilities to accommodate a revised tunnel launching shaft location, tendering of the tunnel section was further delayed. As a result, the entire watermain from Milliken Pumping Station to Major Mackenzie Drive is now expected to be commissioned by December 2012 (last reported: June 2012).

West Richmond Hill Pumping Station – Environmental Assessment study underway

West Richmond Hill Pumping Station is a new pumping facility identified in the 2009 Water and Wastewater Master Plan Update to pump water from pressure district six to pressure districts seven and eight. The new pumping station will alleviate existing capacity constraints at the Pugsley pumping station. The Environmental Assessment study is currently underway and Notice of Study Commencement was issued in November 2010. The project is expected to be completed in the fourth quarter of 2014 (last reported: fourth quarter of 2014).

West Vaughan Sewage Servicing – Environmental Assessment study underway

West Vaughan Sewage Servicing is a new project identified in the 2009 Water and Wastewater Master Plan Update to provide sanitary sewage capacity to service growth in the West Vaughan area (the area west of Highway 27 including Kleinburg-Nashville) up to the year 2051. Notice of study commencement was issued in March 2011.

With more detailed scoping of the project following its commencement in November 2010, the completion date including construction is now scheduled for 2016 (last reported: 2015).

Staff continue to monitor status of Peel and Toronto cost shared projects

Provision of water and wastewater services through partnerships with Toronto and Peel Region is a key component of the Region's long-term servicing strategy. A number of projects in the City of Toronto and Peel Region are currently underway to provide capacity to service growth in the Region. Regional staff conduct regular meetings with

Toronto and Peel staff to discuss issues regarding supply commitments including cost-shared project delivery schedules. Based on progress of Peel and Toronto's projects, it is expected that both will meet their long term water agreement supply commitments to the Region.

A breakdown of the water supply sources servicing York Region for the years 2011 and 2031 is provided in Table 1.

Table 1
Water Supply Capacity to York Region

Water Supply Sources	2011		2031	
	Capacity (ML/D)	% of Supply	Capacity (ML/D)	% of Supply
York Water System				
City of Toronto	501	65%	530	50%
Peel Region	134	17%	388	37%
Yonge Street Aquifer Wells	62	8%	62	6%
Stouffville Wells	12	2%	12	1%
Georgina	30	4%	45	4%
Stand-alone Groundwater Systems (e.g. Schomberg, Nobleton, Kleinburg, Ballantrae, Mount Albert, Ansnorveldt and King City)	27	4%	20	2%
Total	766	100%	1,057	100%

5. FINANCIAL IMPLICATIONS

A summary of the costs of priority infrastructure projects is provided in Table 2. The total cost of infrastructure projects included in this update is \$2.2 billion.

Table 2
Cost Estimates for Key Infrastructure Projects

Project	Project Cost Estimates (\$)	Related Financial and Servicing Implications
Queensville Elevated Tank No. 1	9,600,000	Of the \$9.6 million, \$1.9 million is not currently in the DC Bylaw
Queensville/Holland Landing/Sharon York Durham Sewage System Connection	170,000,000	Based on tender prices, the project cost is revised to \$170 million. Of the \$170 million, \$99.9 million is not currently in the DC Bylaw.
King City Water Supply	25,300,000	
Duffin Creek Water Pollution Control Plant	402,300,000	Durham share of \$91 million and Federal/Provincial funding of \$93.4 million not included.
Leslie St. Watermain (Wellington St. to Davis Dr.)	15,000,000	
Richmond Hill 2nd pressure district nine Elevated Tank	10,500,000	
Toronto East Water Supply	74,700,000	
Southeast Collector	546,100,000	Southeast Collector is designated as a critical project. Delay on this project will be monitored to ensure acceptable level of service and environmental protection.
Upper York Sewage Solutions	502,000,000	
West Richmond Hill Pumping Station	33,800,000	
Duffin Creek Water Pollution Control Plant Outfall	68,000,000	Durham share estimated at \$17 million not included (amount subject to ongoing cost share negotiation with Durham Region)
Duffin Creek Water Pollution Control Plant Stages 1 and 2 Upgrades	161,100,000	Durham share estimated at \$40 million not included
West Vaughan Sewage Servicing	159,200,000	
Total	\$2,177,600,000	

Cost estimates shown in Table 2 only include capital funding requirements. As part of the budget process, funding and resource requirements for operation and asset management are assessed and included in the annual budget.

6. LOCAL MUNICIPAL IMPACT

Staff continue to work closely with municipalities affected by the infrastructure program to minimize impacts on planned community growth

Priority projects reviewed in this report are crucial to providing timely servicing capacity to municipalities serviced by the York Durham Sewage System and the York Water System. The capacity is necessary to meet growth expectations while maintaining a desirable level of environmental and public health protection.

Release of additional capacity as well as granting of approvals in each phase of the plan approval process is contingent on all of these projects being completed as planned. Projects are continually monitored to ensure risk of delay is minimized and capacity will be available as planned. Staff continue to work closely with the local municipalities affected by the infrastructure program to ensure impacts to planned community growth are minimized to the extent possible considering constraints created by these projects. Coordinated efforts with local municipalities continue on implementing the inflow and infiltration reduction program and water conservation and efficiency program to reduce flows to the York Durham Sewage System and thereby increase system capacity.

7. CONCLUSION

This report provides Regional Council with a status of priority projects and their relationship to the timing of plan approvals. Projects identified in this report are essential to provide capacity needed to service projected growth in the Region. Continuing to monitor these projects will ensure capacity allocation and granting of planning approvals are synchronized with project schedules.

For more information on this report, please contact Daniel Kostopoulos, Director, Capital Planning and Delivery, Environmental Services at (905) 830-4444 Ext. 5070.

The Senior Management Group has reviewed this report.

(The three attachments referred to in this clause are attached to this report.)



Capital Infrastructure Status Update

Daniel Kostopoulos
April 13, 2011

#2906145

Overview

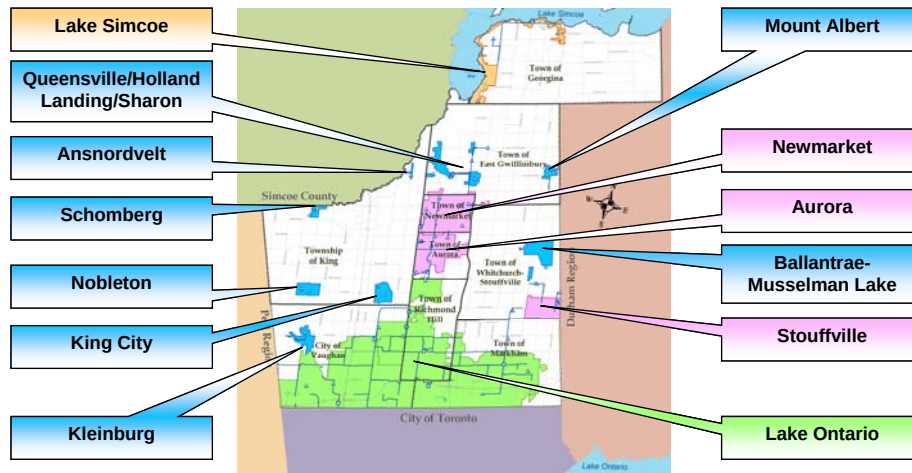
- ❑ Program overview
- ❑ What have we achieved in the last 6 months
- ❑ What will we achieve in the next 6 months
- ❑ Key Projects



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Slide 2

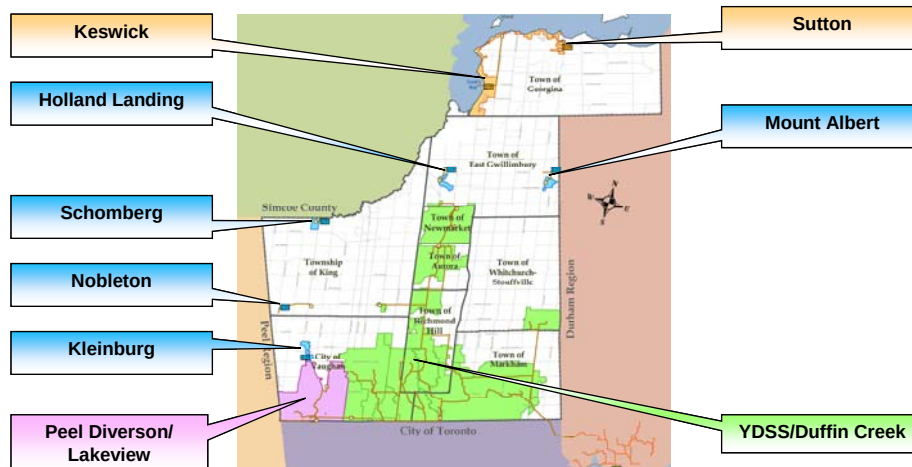
Drinking Water Supply Where does it come from...



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Slide 3

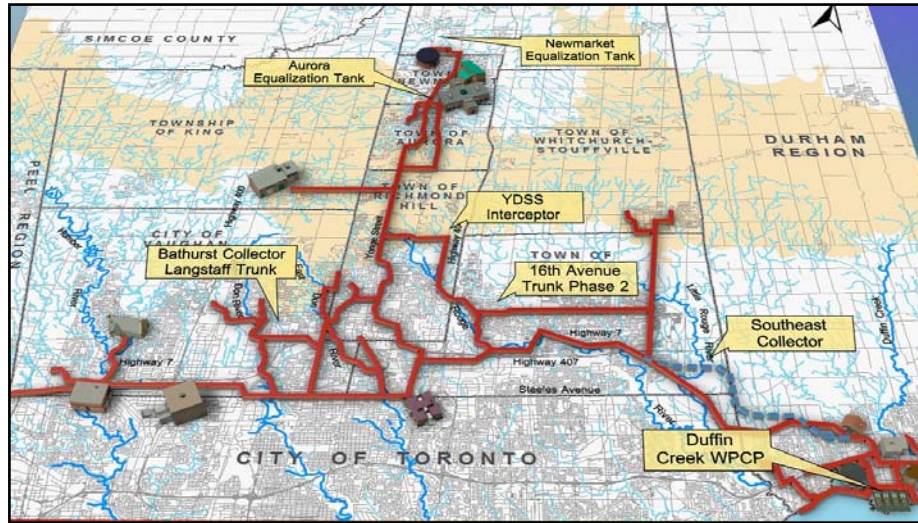
Sanitary Sewage Servicing Where does it all go...



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Slide 4

York Durham Sanitary Sewer Overview



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Slide 5

What have we achieved in the last 6 months...

Achieved key milestones on water projects:

- ✓ Commenced Class Environmental Assessment for West Richmond Hill Pumping Station, Glenway Reservoir and Aurora East Storage Facility
- ✓ Tendered Queensville Water Storage Tank No.1
- ✓ Awarded Kleinburg Water Supply Works, Kennedy Road watermain (Contract 1) and Keswick Elevated Tank
- ✓ Started construction of Leslie Street watermain in Aurora/Newmarket, Nobleton Elevated Tank and King City Water Supply Works

Advanced wastewater projects:

- ✓ Commenced Class Environmental Assessment for West Vaughan Sewage Servicing, Duffin Creek Plant Outfall and Design for Stage 1 & 2 Upgrades
- ✓ Identified tentatively recommended Alternative for UYSS
- ✓ Tendered Southeast Collector and Queensville/Holland Landing/Sharon YDSS connection
- ✓ Commissioned Duffin Creek WPCP Stage 3 Expansion (Liquid process)

Continuing to expand waste managed infrastructure:

- ✓ Started construction of Elgin Mills CEC and Garfield Wright MRF Upgrades

Progress in all program areas in delivering aggressive capital plan



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Slide 6

What we will achieve in the next 6 months...

Water

- ❑ Tender Nobleton Well No.4 and watermain, Bloomington Road watermain and Ballantrae New Production Well
- ❑ Completion of Leslie Street and Bathurst Street watermain
- ❑ Completion of King City Elevated Tank and Richmond Hill PD9 Elevated tank No.2
- ❑ Completion of Georgina Water Treatment Plant Upgrade
- ❑ Completion of Woodbine Avenue Watermain Project in Keswick
- ❑ Completion of Maple PD7 pumping station upgrade
- ❑ Completion of Mount Albert Well No. 3

Wastewater

- ❑ Start construction of Southeast Collector
- ❑ Completion of Kleinburg WPCP Expansion, Joe Dales Pumping Station Upgrades and forcemain in Keswick

Waste Management

- ❑ Completion of Richmond Hill CEC and Garfield Wright MRF Upgrades

Over 50 construction contracts will be underway in 2011



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Slide 7

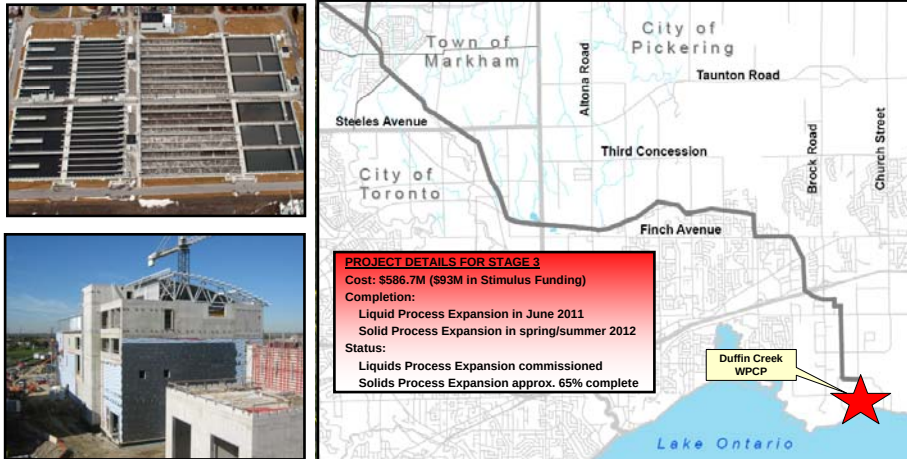
Key Water & Wastewater Capital Projects



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Slide 8

Duffin Creek WPCP Stage 3 Expansion



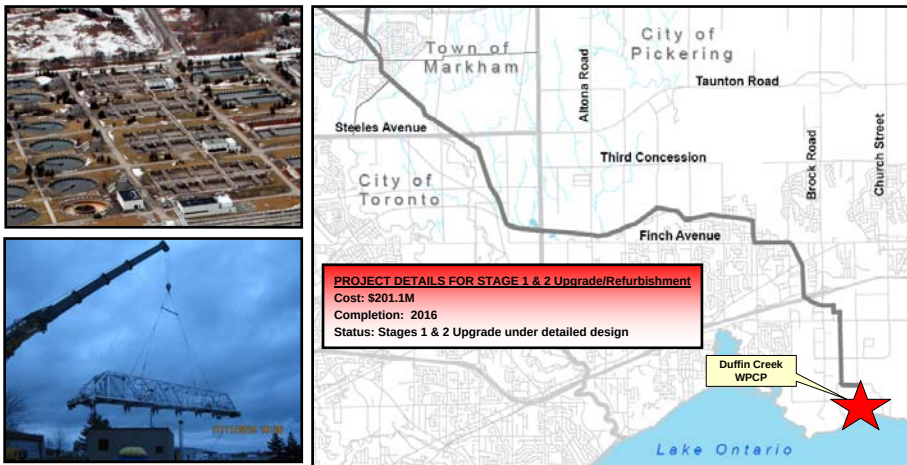
Stage 3 liquid process expansion completed



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Slide 9

Duffin Creek WPCP Stage 1 & 2 Upgrades/Refurbishment



Existing stage 1 and 2 upgrades/refurbishment required for Stage 3 MOE Approvals



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Slide 10

Duffin Creek WPCP Outfall



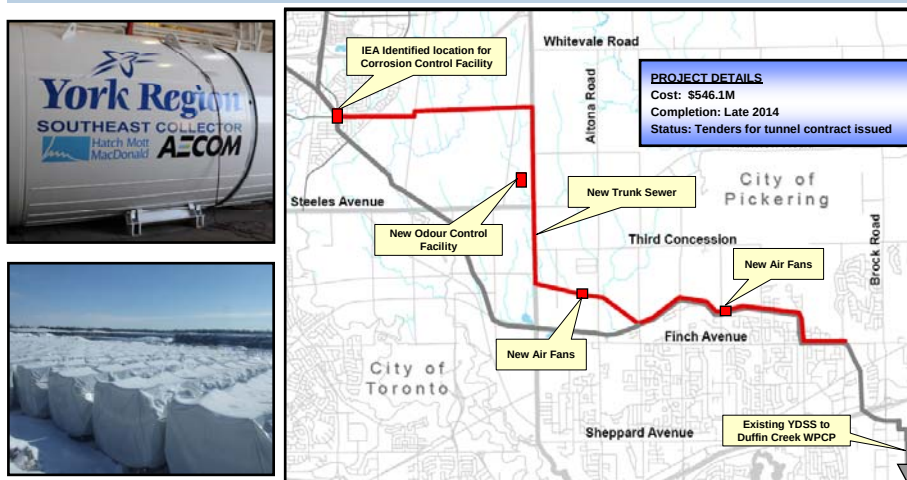
Duffin Creek WPCP Outfall is required to meet target growths beyond 2017



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Slide 11

Southeast Collector Trunk Sewer



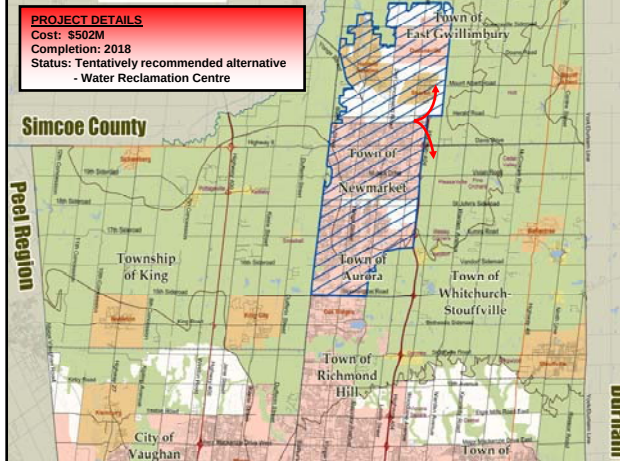
Tenders for tunnel contract issued



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Slide 12

Upper York Sewage Solutions



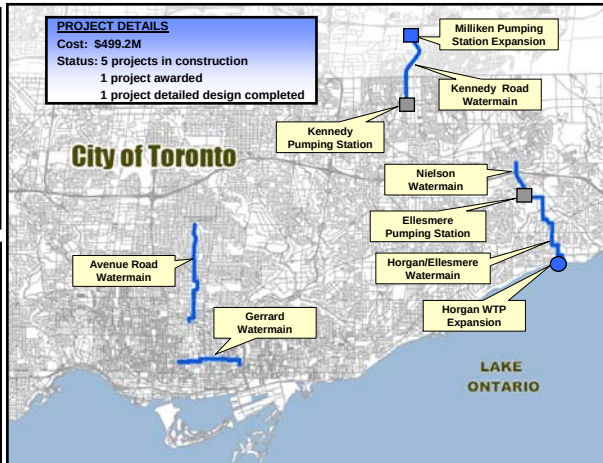
Tentatively Recommended Alternative for UYSS – Water Reclamation Centre



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Slide 13

Toronto Cost Shared Works



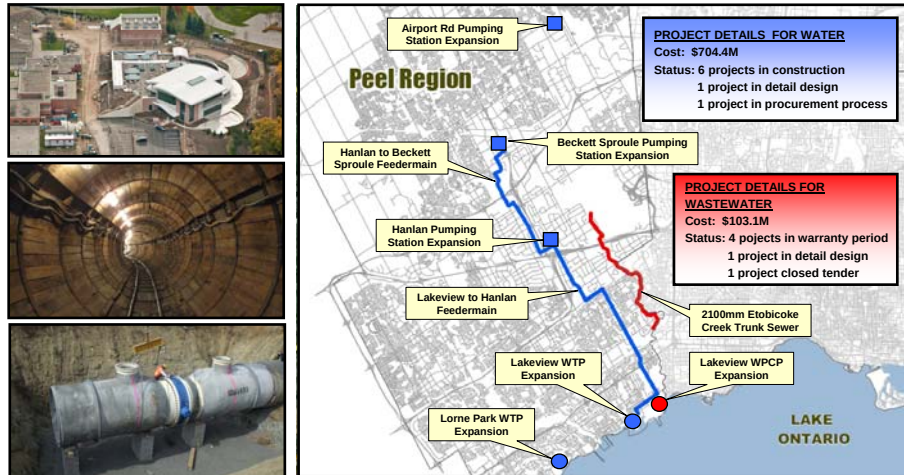
7 active projects – delivery on track to meet required water servicing capacity



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Slide 14

Peel Cost Shared Works



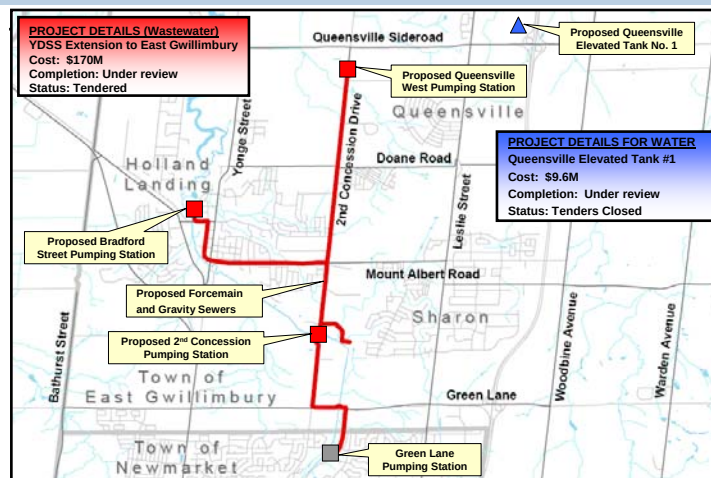
Fourteen active projects – delivery on track to meet required servicing capacity



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Slide 15

Queensville/Holland Landing/Sharon Servicing



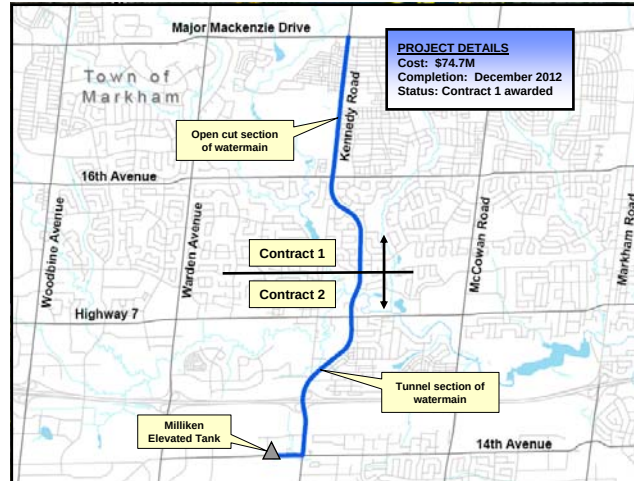
Construction Tenders Closed



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Slide 16

Toronto East Water Supply (Kennedy Road Watermain – Markham)



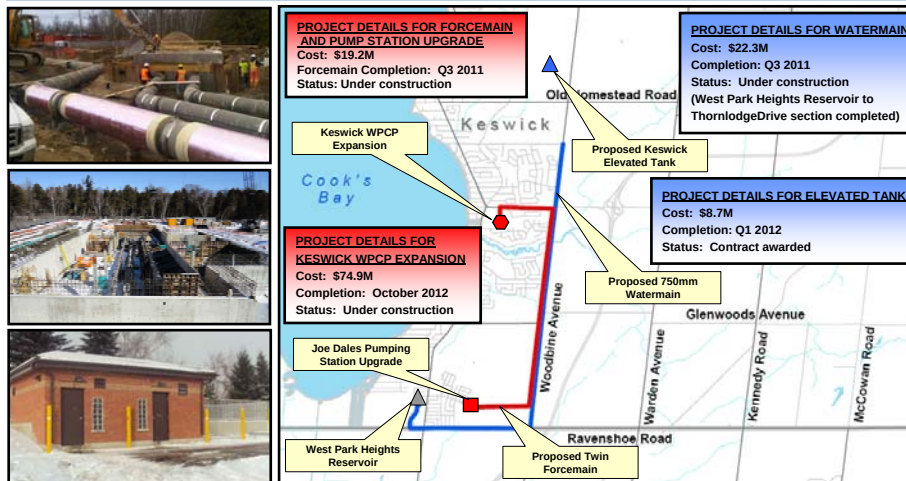
Construction underway



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Slide 17

Keswick Servicing



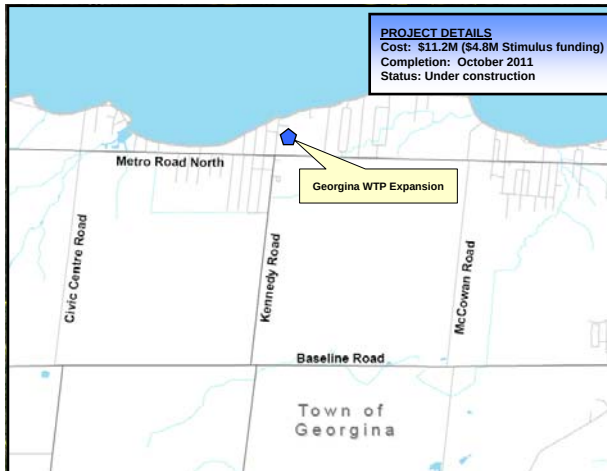
Moving forward with four projects in construction totalling \$125.1M



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Slide 18

Georgina WTP Expansion



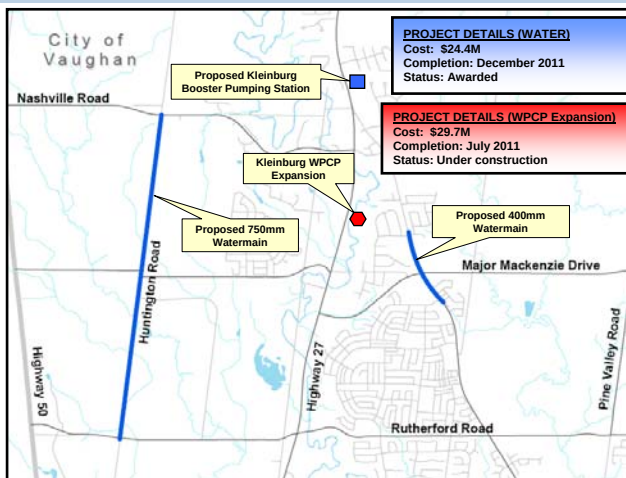
Georgina WTP Expansion expected to be completed by October 2011



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Slide 19

Kleinburg Water and Wastewater Servicing



Watermain and booster pumping station awarded



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Slide 20

King City Water Supply



King City Water Supply scheduled for completion in summer 2011



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Slide 21

Nobleton Water Servicing



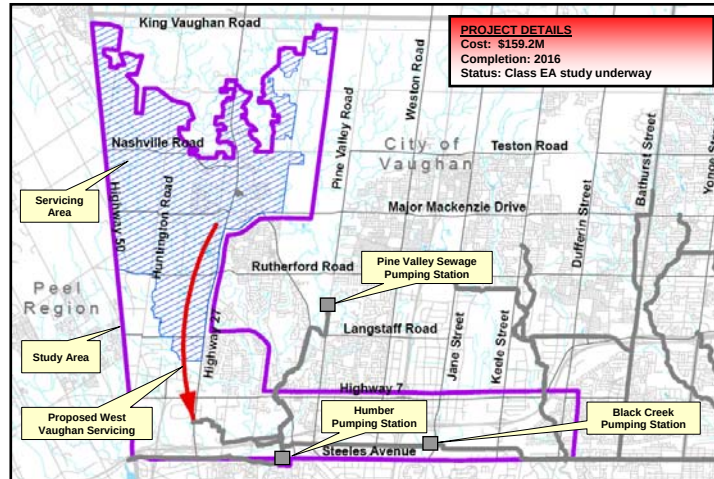
Elevated tank under construction



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Slide 22

West Vaughan Sewage Servicing



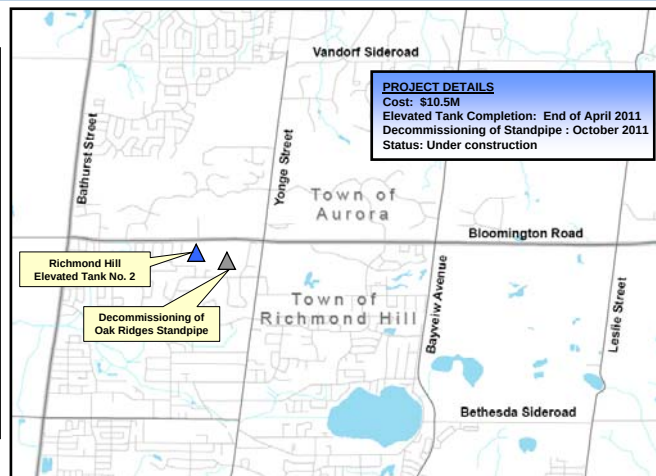
Class Environmental Assessment study underway



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Slide 23

Richmond Hill Elevated Tank No.2



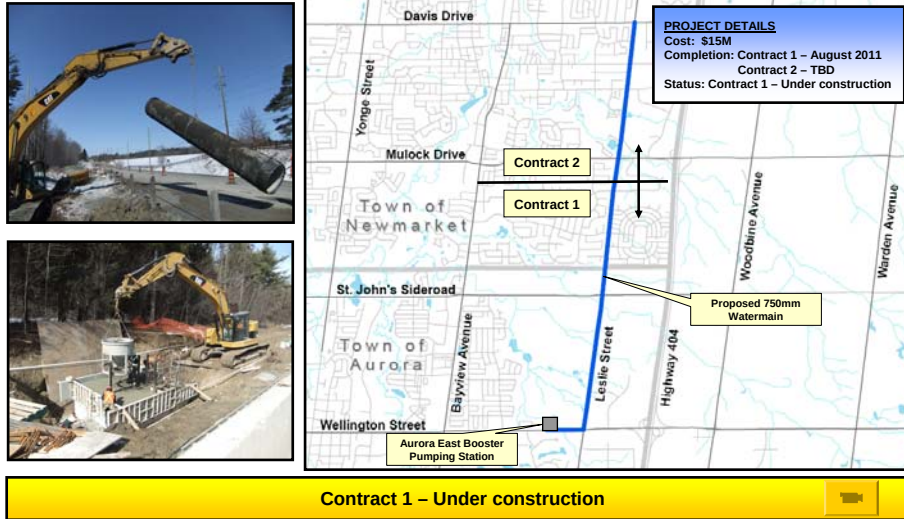
Elevated tank on schedule for completion by end of April 2011



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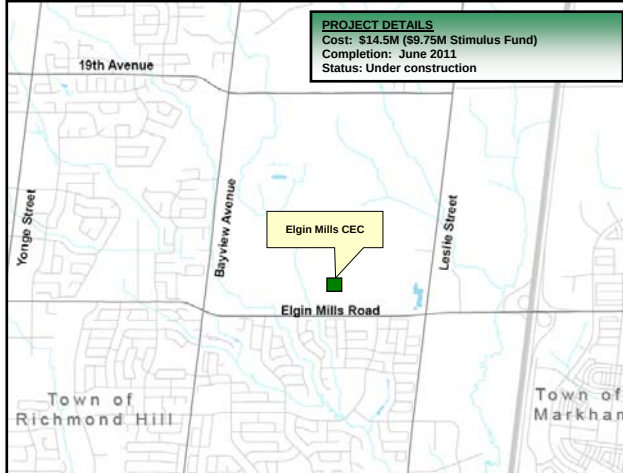
Slide 24

Leslie Street Watermain (Aurora/Newmarket)



Waste Management Projects

Elgin Mills Community Environmental Centre (CEC)



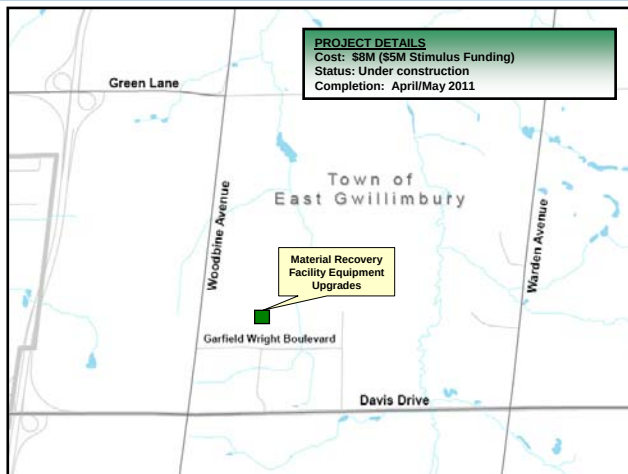
Community Environmental Centre Completion Summer 2011



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Slide 27

Material Recovery Facility (MRF) Equipment Upgrades



Material Recovery Facility Equipment Upgrade nearing completion



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Slide 28

Bringing Certainty to Capital Delivery in 2011

- ❑ On track to deliver over \$500M capital infrastructure in 2011
- ❑ Key elements include moving forward with Duffin Creek Stage 3 Solids expansion and starting construction on Southeast Collector
- ❑ 120 active projects with over 50 in construction
- ❑ Addressing construction challenges given transformation from suburban/rural communities to large urban centres across Region
- ❑ Efficiently building Peel and Toronto Cost Shared Works
- ❑ Upper York Sewage Solutions Individual Environmental Assessment



Prudently growing the Region's asset base to support approved growth



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Slide 29

Questions



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Slide 30

Status of Infrastructure Trigger Projects & Conditions

Required To Service 1,078,328 people in the YDSS and Peel diversion service areas as of March 2011

Municipality	Project Name / Trigger Conditions	Description	Current Status	Expected Completion Date	Anticipated Presales Timing	Anticipated Registration Timing
Aurora East Gwillimbury Markham Newmarket Richmond Hill King Vaughan Whitchurch/Stouffville	Duffin Creek WPCP (Liquid Process Expansion)	Expansion to increase plant capacity to 630 ML/day subject to completion of future outfall works	Complete	December 2010 (Liquid Process Expansion) (last reported: December 2010)	Permission for presales granted in December 2009 and June 2010 (Except EG where other infrastructure triggers are required, see below)	Permission for final plan registration granted in June and September 2010 (Except EG where other infrastructure triggers are required, see below)
Township of King	King City Water Supply	King City connection to York Water System	Construction	Summer 2011 (last reported: Q1 2011)	Permission for presales granted in June 2010	Permission for final plan registration granted in September 2010
	King City Elevated Tank	Construction of a 2.74 ML elevated tank	Construction	Summer 2011 (last reported: Q1 2011)		
Aurora, Newmarket (Aurora East pressure district only)	Leslie/Wellington Street Watermain	Watermain from Aurora East pumping station on Wellington St. to Leslie St., just north of Mulock Drive	Construction	August 2011 (last reported: August 2011)	Permission for presales granted in December 2009	Permission for final plan registration granted in February 2011
Richmond Hill (PD9 only)	PD9 Elevated Tank No. 2	Elevated Tank in the Richmond Hill Pressure District 9 service area	Construction	April 2011 (last reported: April 2011)	Permission for presales granted in June 2010	Permission for final plan registration granted in October 2010
East Gwillimbury	Queensville/Holland Landing/Sharon YDSS connection	Provision of sanitary servicing through extension of the YDSS	Tender	Subject to review (last reported: December 2012)	Subject to review Q4 - 2011	Subject to review Q2 - 2012
	Queensville Elevated Tank No. 1	Construction of a 7.5 ML elevated tank	Tender	Subject to review (last reported: May 2012)		
Aurora East Gwillimbury Markham Newmarket Richmond Hill King Vaughan Whitchurch/Stouffville	Regional conditions on 2013 allocation	MOE approval of the Southeast Collector Trunk Sewer IEA Commitments of local municipalities to partner with the Region on the I-I reduction program	Conditions met		December 2011 (last reported: December 2011)	June 2012 (last reported: June 2012)

1) This data will be updated and submitted to Regional Council quarterly

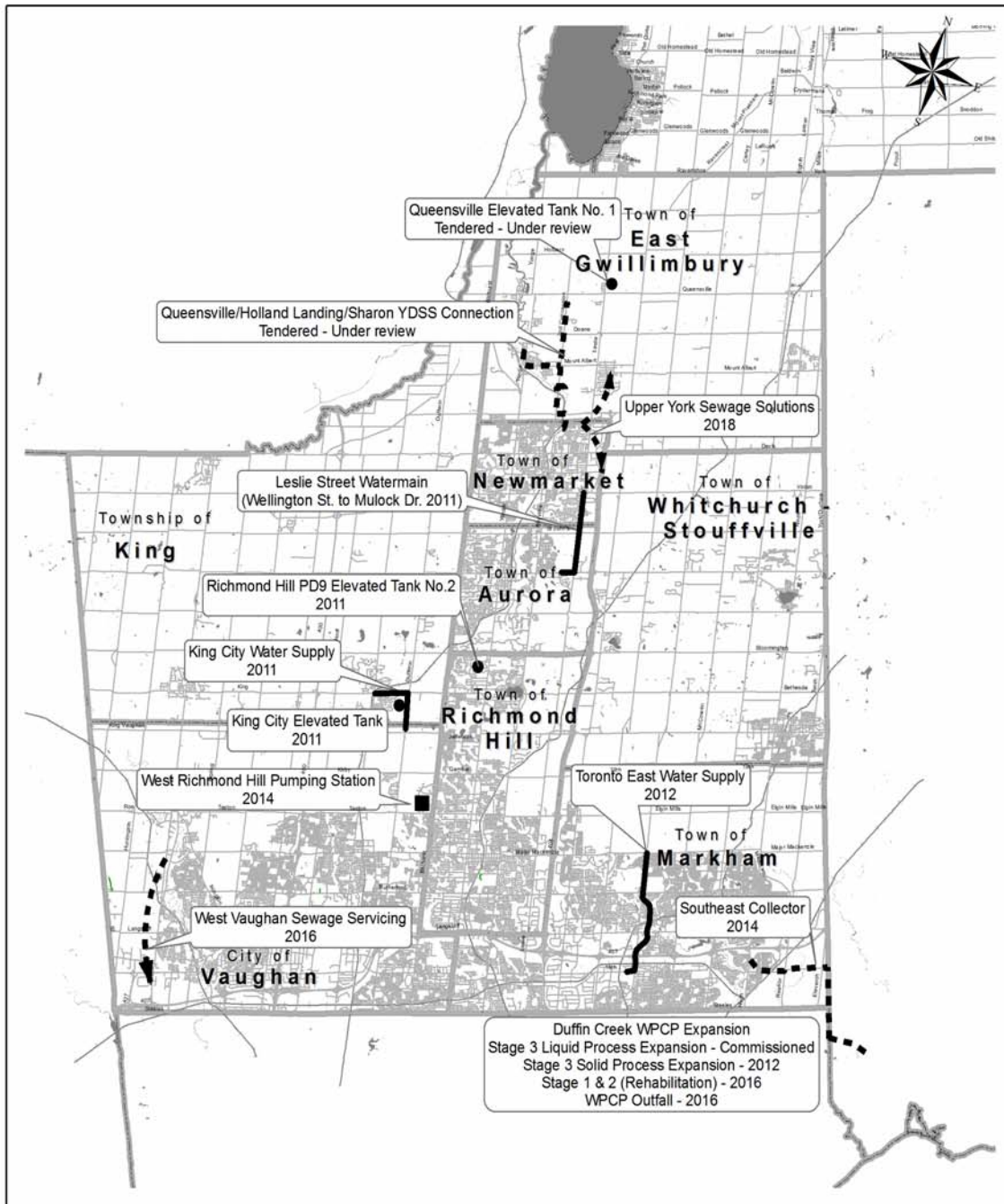
2) Projects completed and removed from the table since last report: none

Status of Key Infrastructure Projects

Required within the next 10 years to service beyond 1,078,328 people
as of March 2011

Project Name	Description	Current Status	Expected Project Completion Date
Southeast Collector Sewer	Twinning of existing trunk sewer to provide additional conveyance capacity	Tender	Mid 2014 (last reported: Mid 2014)
Duffin Creek Stages 1 and 2 Upgrades	Upgrade and refurbish existing Stages 1 and 2	Detailed Design	2016 (last reported: 2016)
Duffin Creek Water Pollution Control Plant Outfall	New outfall to address diffusion requirements and increase plant capacity to 630MLD	EA	2016 (last reported: 2016)
Upper York Sewage Solutions	Sanitary servicing solution to accommodate growth in Holland Landing, Queensville, Sharon and parts of Aurora and Newmarket	Individual Environmental Assessment	2018 (last reported: 2018)
Toronto East Water Supply	Watermain along Kennedy Road from Milliken Pumping Station to Major Mackenzie Drive	Open cut section - Construction Tunnel section - Tender	Q4 - 2012 (last reported: Q2 2012)
West Richmond Hill Pumping Station	New pumping station near Bathurst Street and Elgin Mills Road to pump water from Pressure District (PD) 6 to PD7 and PD8	EA	Q4 - 2014 (last reported: Q4 - 2014)
West Vaughan Sewage Servicing	Sanitary servicing solution to accommodate growth in West Vaughan area	EA	2016 (last reported: 2015)

1) Projects added to the table since last report: none



LOCATION PLAN

Key Infrastructure Projects

