



MEETING MINUTES

Reference No. 37936

PROJECT: MOFFAT CREEK TRUNK SANITARY SEWER
 CLIENT: City of Cambridge CLIENT REFERENCE NO.: P-2004-42
 RE: Technical Advisory Committee Meeting #5
 LOCATION: Cambridge City Hall DATE: November 20, 2008 TIME: 9:30 AM
 SECORD Room

Participants:

Samantha Lawson	GRCA	Giancarlo Radicioni	City of Cambridge
Andrea Doherty	DFO (Burlington)	Jim Kirchin	City of Cambridge
Ken Cornelisse	MNR (Guelph)	Alex Koch	City of Cambridge
Barb Slattery	MOE (Hamilton) - phone	Kevin Brousseau	Stantec Consulting
John Lee	Region of Waterloo	Kevin Fergin	Stantec Consulting
Don Pletch	Region of Waterloo	Chris Hunter	CRA
Janet Babcock	City of Cambridge	Dale Paynter	CRA

Distribution:

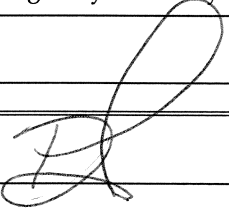
<input checked="" type="checkbox"/> File	<input checked="" type="checkbox"/> Participants		April Souwand	City of Cambridge	
		Mike Stone	MNR (Guelph)	Phil Antoniow	City of Cambridge
		Nancy Davy	GRCA	Chris Pidgeon	Green Scheels Pidgeon
		Albert Hovingh	Region of Waterloo	Ron Schwark	CRA
		Gary Price	City of Cambridge	Steven Perschbacher	Stantec Consulting

<i>Item</i>	<i>Description</i>	<i>Action By</i>
1.0	<p><u>Introduction</u></p> <ul style="list-style-type: none"> • The purpose of this meeting was to provide a forum for discussion of additional installation options for the Moffat Creek Sanitary Sewer. • As a follow-up to the September 23rd TAC meeting, CRA completed a preliminary review of supplementary alignments. This information was forwarded to all Committee members in a memorandum dated October 29, 2008. 	
2.0	<p><u>Property Issues</u></p> <ul style="list-style-type: none"> • Each of the alignment options under discussion would require land purchase or easements on three properties along the north side of the Creek Valley. • The City indicated that they are currently in negotiations with the property owners in question, and that feedback has been positive. 	



<i>Item</i>	<i>Description</i>	<i>Action By</i>
3.0	<p><u><i>Discussion on Alignment Options (October 29, 2008 memorandum)</i></u></p> <ul style="list-style-type: none"> • CRA led the discussion with additional details on the four options from the above memorandum, including advantages and disadvantages from environmental, social, construction, and cost issues. • Points were noted on the advantages of maximizing a single direct line installation, use of larger tunnelling equipment to address local ground conditions, reducing surficial impacts between Franklin and Dundas, slope stability issues between Azores and Dundas, and eliminating disruptions on adjacent residential streets. • Questions were raised on undertaking maintenance/repairs along a single run, and the advantages gained from installing larger pipe. • Outside discussions with bidders and prospective bidders has suggested that these factors would significantly reduce the uncertainty that was present in the 2008 bid. • The general consensus was that adjustments to reduce environmental effects and to eliminate disruption to the local community (during construction) would benefit the works. The agencies will provide initial comments on all four of the options presented. • It was agreed by all that implementation of Option C or D would resolve a great number of local concerns and will become the primary focus of subsequent design. • Additional questions were raised specifically related the possible option to undertake the crossing of Moffat Creek to the east of Dundas Street using an open cut installation (See previous minutes). • The agencies have requested supplementary information regarding benefits and environmental considerations of open cutting versus tunnelling this specific section of the works. CRA to provide. 	<p>DFO, MNR, GRCA</p> <p>CRA</p>
4.0	<p><u><i>Changes to the EA Addendum and/or the Environmental Assessment</i></u></p> <ul style="list-style-type: none"> • Concern was raised that modifications to the alignment or method(s) of installation as presented in the 2007 EA Addendum (and the 1999 Environmental Assessment) could require the filing of a secondary Addendum. • CRA will provide clarification that all the options under consideration remains within the intention of, and requirements outlined in the 1999 Environmental Assessment, the 2007 EA Addendum and the conditions of Approval issued by the Minister of the Environment in February of 2008. 	<p>CRA</p>
5.0	<p><u><i>Next Meeting</i></u></p> <ul style="list-style-type: none"> • The next meeting of the TAC was scheduled for Thursday, December 11th at 9:30AM at Cambridge City Hall. City Staff will confirm the room location. 	

Attachments: _____

Prepared By: Dale Paynter 

Date Issued: November 20, 2008

This confirms and records CRA's interpretation of the discussions which occurred and our understanding reached during this meeting. Unless notified in writing within 7 days of the date issued, we will assume that this recorded interpretation or description is complete and accurate.

**REVIEW OF SUPPLEMENTARY OPTIONS
MOFFAT CREEK TRUNK SANITARY SEWER - CITY OF CAMBRIDGE**

	OPTION A Trenchless Installation Across Pond Only	OPTION B Trenchless Installation Across Pond plus Azores to Dundas	OPTION C Trenchless Installation Across Pond through to East Side of Dundas	OPTION D Trenchless Installation Across Pond through Dundas and East Wetland
Franklin to Moffat Creek	Open Cut Installation (170 metres)	Open Cut Installation (170 metres)	Open Cut Installation (170 metres)	Open Cut Installation (170 metres)
Moffat Creek to Azores	Trenchless installation (210 metres) - Easement required	Trenchless installation (210 metres) - Easement required	Trenchless installation (210 metres) - Easement required	Trenchless installation (210 metres) - Easement required
Azores to Dundas	Open Cut installation (210 metres)	Trenchless installation (210 metres)	Trenchless installation (465 metres);	Trenchless installation (total length 550 metres)
Dundas to Moffat Creek	Open Cut Installation - including Dundas (120 metres)	Open Cut Installation - including Dundas (120 metres);	Open Cut installation (85 metres).	
Crossing Moffat Creek	Open Cut Installation (80 metres)	Open Cut Installation (80 metres)	Open Cut Installation (80 metres)	Open Cut Installation (80 metres)
Greengate Subdivision	Open Cut Installation (260 metres)	Open Cut Installation (260 metres)	Open Cut Installation (260 metres)	Open Cut Installation (260 metres)
Common Advantages	Staging/Sending Area B East of Franklin to now be NORTH of Moffat Creek Eliminates two of seven original Manholes - 1A and 3A Eliminates Staging Only Area at Franklin Eliminates two of three Staging/Sending Areas Eliminates three of four Receiving Areas - one remaining at Azores No Construction Grade Bridge over Creek required near Franklin Boulevard No Activity required South of Moffat Creek between Franklin and Azores			
Additional Advantages	One directional installation (six in original tender – three set-ups, two directions)	Two directional installations (six in original tender – three set-ups, two directions)	One directional installation (six in original tender – three set-ups, two directions)	One directional installation (six in original tender – three set-ups, two directions)
	Reduced overall length of trenchless installation to 25% of tendered quantity	Reduced overall length of trenchless installation to 55% of tendered quantity	Eliminates four manholes from original tender	Eliminates four manholes from original tender
	No construction or maintenance access required from Azores	No surface activity or access along Moffat Creek between Azores and Dundas	No surface activity or access required between Azores and Dundas	No surface activity or access required between Azores and Dundas
			No construction or maintenance access required from Azores	No surface activity crossing Wetland immediately east of Dundas
Common Constraints	Alignment near to Off-Line Pond Area Acquisition of Property Easements(s) Open Cut requirements for Dundas Street to install MH in right-of-way - Reduced lanes versus full closure Deferring completion of Trails as per City Official Plan			
Additional Constraints	Full Maintenance Access required along Creek – Azores to Dundas	Staging/Sending Area still required on West Side of Dundas	Length/Accuracy of Single Directional Drill	Longest Trenchless Installation /Accuracy of Single Directional Drill
	Retaining Walls along Maintenance Access – Azores to Dundas	Construction and Maintenance access will need to remain at Azores (as per Tender)	Maintenance requirements and efforts for single run of trunk sewer	Maintenance requirements and efforts for single run of trunk sewer
	Additional efforts for Restoration (Tree and other vegetative cover) - Azores to Dundas			
	Moving operation for dewatering controls - Azores to Dundas			
	Very Narrow working limits for Open Cut - Azores to Dundas			
	Steep and high slopes along alignment / Need for shoring – Azores to Dundas			