

**ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
BOARD STAFF INTERROGATORY #11**

INTERROGATORY

Issue: A-2

Do the proposed facilities meet the Board's economic tests as outlined in the Filing Guidelines on the Economic Tests for Transmission Pipeline Applications, dated February 21, 2013 and E.B.O. 188 as applicable?

REF: EB-2012-0451, Exhibit A, Tab 3, Schedule 5, Page 21 of 26, Expected Gas Supply Benefits Update

Preamble

The evidence states that the TCPL tolls used in the gas supply benefits calculations are based on TCPL's Restructuring Proposal as filed by TCPL on June 29, 2012 in the NEB RH-003-2011 proceeding.

Questions

- a) To what extent would the gas supply benefits change if the NEB's March 27, 2013 Decision on Tolls in proceeding RH-003-2011 is used? Please provide a rerun gas supply benefits model, with a summary of the relevant results, using the NEB's Mainline tolls Decision. Please summarize the differences.

RESPONSE

Please note that on May 15, 2013, the Company filed an update to the expected gas supply benefits associated with the GTA Project. This update can be found at Exhibit A, Tab 3, Schedule 5. This update included the tolls associated with the TransCanada Review and Variance Application and updated contracting assumptions which now assume long haul firm transportation and peaking supplies are displaced by short haul firm transportation. The rationale for this change is provided in the update to Exhibit A, Tab 3, Schedule 5, pages 21 to 30.

The tolls contained in TransCanada's Compliance Filing with the National Energy Board are the tolls associated with the NEB Decision in RH-003-2011. The expected gas supply benefits are \$1,465 million from 2015 to 2025 when the tolls from TransCanada's

Witness: J. Denomy

Compliance Filing are used. As shown in Exhibit A, Tab 3, Schedule 5, page 30, the expected gas supply benefits are \$1,632 million from 2015 to 2025 when tolls from TransCanada's Review and Variance Application are used. The expected gas supply benefits are lower when using the tolls contained in TransCanada Compliance filing because the reduction in long haul tolls is greater than the reduction in short haul tolls.

The Union Parkway Belt to Bram West CDA toll and the Niagara Falls to Enbridge Parkway CDA toll are not provided in TransCanada's Compliance Filing or in TransCanada's Review and Variance Application. The tolls for these two paths were derived by TransCanada utilizing the system average unit costs from each of the aforementioned filings and the distance associated with each path.

The table below provides tolls from TransCanada's Compliance Filing and Review and Variance Application.

| Path | Review & Variance Application Tolls | Compliance Filing Tolls | Difference |
|------------------------------------|-------------------------------------|-------------------------|------------|
| Empress-EGD CDA | 1.677 | 1.566 | 0.112 |
| Union Dawn-EGD CDA | 0.252 | 0.236 | 0.016 |
| Union Parkway Belt-Bram West CDA | 0.093 | 0.088 | 0.005 |
| Niagara Falls-Enbridge Parkway CDA | 0.164 | 0.153 | 0.011 |

Witness: J. Denomy

**ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
BOARD STAFF INTERROGATORY #12**

INTERROGATORY

Issue: A-2

Do the proposed facilities meet the Board's economic tests as outlined in the Filing Guidelines on the Economic Tests for Transmission Pipeline Applications, dated February 21, 2013 and E.B.O. 188 as applicable?

REF: EB-2012-0451, Overall Proposal
EB-2012-0433, Overall Proposal
EB-2013-0074, Overall Proposal

Questions

- a) Does the GTA Project propose to move gas with a destination outside of the Enbridge franchise or are all volumes intended to serve only in-franchise customer requirements? Please explain.
- b) With respect to EBO 134, please provide a summary assessment of the impacts of the GTA and Union projects, on the existing transportation infrastructure in Ontario and the impacts on Ontario customers in terms of costs, rates, reliability, and access to supplies.

RESPONSE

- a) Please see response to Board Staff Interrogatory #15 found at Exhibit I.A3.EGD.STAFF.15, Paragraphs b and c.
- b) Please refer to Exhibit E, Tab 1, Schedule 1, paragraph 17 for a summary of the impacts under EBO 134.

Witnesses: C. Fernandes
M. Giridhar

**ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
CONSUMERS COUNCIL OF CANADA INTERROGATORY #5**

INTERROGATORY

- 2. Do the proposed facilities meet the Board's economic tests as outlined in the Filing Guidelines on the Economic Tests for Transmission Pipeline Applications, dated February 21, 2013 and E.B.O. 188 as applicable?**

Pre-amble: The Board's Filing Guidelines on the Economic Tests for Transmission Pipeline Applications encourage the use of DCF sensitivity analysis.

Issue: A.2-CCC-5

Reference A/T3/S5/Attachment

- a) Please confirm that the following is the complete list of changes that were made to the original projections in the May 15th filing:
- i) The revised assumption that Enbridge would contract for long haul FT capacity on the Mainline - rather than STFT – and that this long haul FT and peaking supplies are displaced with short haul FT capacity;
 - ii) The revised assumption that DP customers will take an additional assignment and/or contract for more long haul FT capacity on the Mainline;
 - iii) Updated Toll assumption;
 - iv) Updated Fuel Ratio assumption; and,
 - v) Updated Commodity Price assumption.

RESPONSE

- a) i) to v) Confirmed with the addition that the foreign exchange rates utilized to convert USD to CAD were updated as well.

Witness: J. Denomy

**ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
CONSUMERS COUNCIL OF CANADA INTERROGATORY #6**

INTERROGATORY

2. Do the proposed facilities meet the Board's economic tests as outlined in the Filing Guidelines on the Economic Tests for Transmission Pipeline Applications, dated February 21, 2013 and E.B.O. 188 as applicable?

Issue: A.2-CCC-6

Reference A/T3/S5/Attachment

- a) In the updated evidence (May 15th) Enbridge made a number of adjustments to the assumption of transportation savings. Using Table A1 please provide the specific reason for each change in Demand Tolls. Specifically, please explain why the Peaking Tolls have changed even though the footnotes (source) in the respective filings appear to have remained the same.

RESPONSE

- a) The reason for the change in demand tolls for all FT paths is the use of the tolls provided by TransCanada in its Review and Variance Application. The reason for the change in the demand charges related to peaking supplies is an update to the foreign exchange rate used to convert costs from US dollars to Canadian dollars.

Witness: J. Denomy

**ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
CONSUMERS COUNCIL OF CANADA INTERROGATORY #7**

INTERROGATORY

2. Do the proposed facilities meet the Board's economic tests as outlined in the Filing Guidelines on the Economic Tests for Transmission Pipeline Applications, dated February 21, 2013 and E.B.O. 188 as applicable?

Issue: A.2-CCC-7

Reference A/T3/S5/pg.3

- a) Please clarify whether apartment data includes or excludes condominiums or whether condominiums are included in the residential category
- b) Please provide a table which shows condominiums separate from either the residential or apartment categories.

RESPONSE

- a) Condominiums may be a part of residential or apartment category depending upon how the apartment building comprising of condominiums is served. For more details, please see definition of residential and apartment customers in the interrogatory response to GEC Interrogatory #16 at Exhibit I.A1.EGD.GEC.16 g) and i), respectively.
- b) Please see the interrogatory response to GEC Interrogatory #16 at Exhibit I.A1.EGD.GEC.16 g).

Witnesses: F. Ahmad
M. Suarez

**ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
CONSUMERS COUNCIL OF CANADA INTERROGATORY #8**

INTERROGATORY

2. Do the proposed facilities meet the Board's economic tests as outlined in the Filing Guidelines on the Economic Tests for Transmission Pipeline Applications, dated February 21, 2013 and E.B.O. 188 as applicable?

Issue: A.2-CCC-8

Reference: E/T1/S1/pg. 8 – Summary of Inputs

- a) Please confirm that the average annual volume per customer is held constant over the analysis time horizon (40 years).
- b) If in fact average customer use is constant over the DCF analysis please explain why no adjustment is made for potential efficiencies gains over time (e.g. improved housing stock, appliance improvements and industrial process efficiencies).

RESPONSE

- a) The Company confirms that the average annual volume per customer is held constant over the 40-year analysis time horizon in the Economic Feasibility.
- b) Please see response to Board Staff Interrogatory #16 found at Exhibit I.A3.Staff.16 Part (b).

Witness: S. Murray

**ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
CONSUMERS COUNCIL OF CANADA INTERROGATORY #9**

INTERROGATORY

2. Do the proposed facilities meet the Board's economic tests as outlined in the Filing Guidelines on the Economic Tests for Transmission Pipeline Applications, dated February 21, 2013 and E.B.O. 188 as applicable?

Issue: A.2-CCC-9

Reference: E/S1/T1

- a) Please provide the rate classes which are included in the classifications or Residential, Commercial, Apartment, Industrial in the Summary of Inputs
- b) Please provide Enbridge's 5 year average weather normalized residential (Rate 1) and commercial class (Rate Class 6) for the years 1997-2002 as compared to the average for 2007-2012.

RESPONSE

- a) Residential customers were classified as Rate 1. Commercial, Apartment and Industrial customers were classified as Rate 6.
- b) The following 6-year average annual use per Rate 1 and Rate 6 customer have been normalized to the 2013 Budget Degree Days.

| Average Annual Use per Customer | | |
|---------------------------------|--------------------|-------------------|
| | Rate 1-Residential | Rate 6-Commercial |
| 1997-2002 | 3,054 | 17,616 |
| 2007-2012 | 2,679 | 19,316 |

Witnesses: F. Ahmad
S. Murray
M. Suarez

**ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
CONSUMERS COUNCIL OF CANADA INTERROGATORY #10**

INTERROGATORY

2. Do the proposed facilities meet the Board's economic tests as outlined in the Filing Guidelines on the Economic Tests for Transmission Pipeline Applications, dated February 21, 2013 and E.B.O. 188 as applicable?

Commodity Price Assumptions

Issue: A.2-CCC-10

Reference: A/T3/S5/Attachment

- a) In the updated filing (May 15) Enbridge has changed the Fuel Ratio Assumptions, using the most recent 12 months. Similarly changes were made to the commodity price assumptions in the updated evidence. Please provide a sensitivity analysis using Table A4 and showing the updated Fuel Ratio and Commodity prices under the original STFP and DP transportation assumptions provided in the original filing.

RESPONSE

Please see the table below. This table is a revised version of Table A4 contained in the May 15, 2013 update. The table below shows what the expected gas supply benefits would be if the commodity, foreign exchange, and fuel ratio assumptions underpinning the expected gas supply benefits calculations in the April 15, 2013 update were utilized. The commodity price and foreign exchange assumptions reflect forward curves as at October 12, 2012. The fuel ratio assumptions are actual TransCanada fuel ratios from December 2011 to November 2012 and Union Gas fuel ratios are those per the M12 rate schedule effective October 1, 2012. All other assumptions contained in the table remain consistent with those filed in the May 15, 2013 update. Under this set of assumptions, the expected gas supply benefits for system gas customers are approximately \$979 million over the 2015 to 2025 timeframe. Expected gas supply savings for Direct Purchase customers are approximately \$644 million over the 2015 to

2025 timeframe. Overall, under the scenario presented in this response the expected gas supply savings over the 2015 to 2025 timeframe would be approximately \$1,624 million rather than \$1,632 million as filed in the May 15, 2013 update.

In responding to this interrogatory, the Company realized there was a typo in the May 15, 2013 update of Exhibit A, Tab 3, Schedule 5 at page 29, paragraph 63. The figure \$955 million in the first sentence of this paragraph should read \$995 million.

| | | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
|--|---|---------------------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Increased Firm Transportation Scenario | | | | | | | | | | | | |
| Service Path Contract Demand | TCPL FT - EGD Empress-EGD CDA 294,494 | Demand Charges 30.1 | 180.8 | 180.3 | 180.3 | 180.8 | 180.3 | 180.3 | 180.8 | 180.3 | 180.8 | 180.3 |
| | | Fuel Charges 2.1 | 9.3 | 9.9 | 10.0 | 10.2 | 10.3 | 10.4 | 10.5 | 10.7 | 10.8 | 10.9 |
| | | Commodity Cost 49.2 | 476.0 | 483.7 | 490.6 | 498.4 | 503.6 | 509.6 | 515.8 | 520.6 | 522.2 | 525.2 |
| | | Total Cost 105.6 | 699.3 | 666.2 | 674.0 | 681.0 | 689.5 | 694.3 | 700.5 | 706.8 | 713.9 | 716.4 |
| Service Path Contract Demand | Peaking Supplies - EGD Empress-EGD CDA 105,506 | Demand Charges 0.1 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 |
| | | Fuel Charges 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | Commodity Cost 5.9 | 6.1 | 6.0 | 6.1 | 6.1 | 6.2 | 6.3 | 6.3 | 6.4 | 6.4 | 6.4 |
| | | Total Cost 0.1 | 6.8 | 7.0 | 7.0 | 7.0 | 7.1 | 7.1 | 7.2 | 7.3 | 7.3 | 7.3 |
| Service Path Contract Demand | TCPL FT - Direct Purchase Empress-EGD CDA, Dawn-EGD CDA 200,000 | Demand Charges 16.8 | 100.8 | 100.5 | 100.5 | 100.8 | 100.5 | 100.5 | 100.5 | 100.5 | 100.8 | 100.5 |
| | | Fuel Charges 1.2 | 5.1 | 5.4 | 5.5 | 5.6 | 5.7 | 5.7 | 5.8 | 5.9 | 6.0 | 6.0 |
| | | Commodity Cost 51.1 | 311.6 | 328.8 | 336.3 | 340.3 | 346.1 | 349.5 | 353.7 | 357.8 | 361.7 | 363.7 |
| | | Total Cost 69.0 | 417.5 | 424.7 | 442.3 | 446.4 | 452.5 | 455.7 | 460.0 | 464.2 | 468.4 | 470.2 |
| | | A-Total Cost | 174.7 | 1,063.7 | 1,107.9 | 1,123.3 | 1,134.4 | 1,149.2 | 1,157.2 | 1,167.6 | 1,178.2 | 1,189.6 |
| Expected Contracting With STA Project Facilities Approved | | | | | | | | | | | | |
| Service Path Contract Demand | Union M12 - EGD Dawn-n-Parkway 200,000 | Demand Charges 1.1 | 6.7 | 6.6 | 6.6 | 6.6 | 6.7 | 6.6 | 6.6 | 6.6 | 6.7 | 6.6 |
| | | Fuel Charges 0.2 | 1.1 | 1.2 | 1.2 | 1.2 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 | 1.3 |
| | | Commodity Cost 26.4 | 163.9 | 170.2 | 178.2 | 178.9 | 182.5 | 184.0 | 186.1 | 188.1 | 189.1 | 190.0 |
| | | Total Cost 27.7 | 171.7 | 178.0 | 186.1 | 186.8 | 190.4 | 192.0 | 194.0 | 196.1 | 197.1 | 198.0 |
| Service Path Contract Demand | TCPL FT - EGD Niagara Falls-Enbridge Parkway CDA 200,000 | Demand Charges 2.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 |
| | | Fuel Charges 0.1 | 0.4 | 0.4 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| | | Commodity Cost 57.3 | 343.6 | 357.1 | 369.7 | 371.7 | 378.6 | 381.7 | 385.9 | 390.0 | 394.5 | 396.4 |
| | | Total Cost 59.4 | 356.1 | 369.5 | 382.2 | 384.2 | 391.1 | 394.2 | 398.4 | 402.5 | 407.0 | 408.9 |
| Service Path Contract Demand | Union M12 - Direct Purchase Dawn-n-Parkway 200,000 | Demand Charges 1.1 | 6.7 | 6.6 | 6.6 | 6.7 | 6.6 | 6.6 | 6.6 | 6.6 | 6.7 | 6.6 |
| | | Fuel Charges 0.5 | 2.3 | 2.4 | 2.5 | 2.5 | 2.5 | 2.5 | 2.6 | 2.6 | 2.6 | 2.6 |
| | | Commodity Cost 55.8 | 336.2 | 349.3 | 365.7 | 367.2 | 374.6 | 377.7 | 381.9 | 386.1 | 388.1 | 390.0 |
| | | Total Cost 57.4 | 345.1 | 358.3 | 374.8 | 376.3 | 383.8 | 386.9 | 391.1 | 395.3 | 397.3 | 399.2 |
| Service Path Contract Demand | TCPL FT - EGD & Direct Purchase Parkway to Bram/Met CDA 800,000 | Demand Charges 4.5 | 27.2 | 27.2 | 27.2 | 27.2 | 27.2 | 27.2 | 27.2 | 27.2 | 27.2 | 27.2 |
| | | Fuel Charges 0.1 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 |
| | | Commodity Cost 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| | | Total Cost 4.6 | 27.5 | 27.4 | 27.5 | 27.5 | 27.5 | 27.5 | 27.5 | 27.5 | 27.6 | 27.5 |
| | | B-Total Cost | 149.1 | 900.4 | 933.3 | 970.6 | 974.7 | 992.9 | 1,000.4 | 1,011.0 | 1,021.3 | 1,028.9 |
| | | Savings (A-B) | 25.7 | 163.3 | 174.7 | 152.7 | 159.7 | 156.3 | 156.7 | 156.9 | 160.7 | 160.3 |

**ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
CONSUMERS COUNCIL OF CANADA INTERROGATORY #11**

INTERROGATORY

2. Do the proposed facilities meet the Board's economic tests as outlined in the Filing Guidelines on the Economic Tests for Transmission Pipeline Applications, dated February 21, 2013 and E.B.O. 188 as applicable?

Sensitivity Analysis

Issue: A.2-CCC-11

Reference: E/T1/S1

- a) Please explain the rationale for a 40 year project life.
- b) Please re-run the cost benefit analysis using a 25 year project life.

RESPONSE

- a) In accordance with EBO 188, the Company has employed a customer revenue horizon of 40 years from the in-service date of the initial mains.
- b) The Net Present Value and Profitability Index under a 25 year project life are \$532.4 million and 1.65, respectively.

Witness: S. Murray

**ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
CONSUMERS COUNCIL OF CANADA INTERROGATORY #12**

INTERROGATORY

2. Do the proposed facilities meet the Board's economic tests as outlined in the Filing Guidelines on the Economic Tests for Transmission Pipeline Applications, dated February 21, 2013 and E.B.O. 188 as applicable?

Issue: A.2-CCC-12

Reference: E/T1/S1/pg.2

- a) Please provide the following sensitivity analysis in the form of the DCF result summary shown on pages 2-5 and using the following assumptions:
 - i) 10% increase capital and maintenance costs (E/T1/S1/pg.9);
 - ii) 10% reduction in Commodity Prices Assumptions (Table A3);
 - iii) 10% reduction in forecast Transportation Savings;
 - iv) A reduction of 0.5% in average annual customer (all classes) consumption in each year for the first 25 years of the project;
 - v) Removal of the Transportation Service Charge revenue after year 15 (i.e. to match the initial TCPL contract period);
 - vi) April 15 filing (original) transportation assumptions with respect to DP and STFP.
- b) Please provide another analysis using assumption changes in i) through iv), but removing adjustment (v) and using the transportation assumptions in the updated (May 15) filing.

RESPONSE

As discussed in the response to interrogatory Board Staff #48 in Exhibit I.D5.EGD.STAFF.48, the 36" shared use option with TransCanada is the base case assumption for the GTA Project and hence is used for the sensitivities requested herein.

As requested, DCF schedules have been provided as attachments for the above sensitivities. In addition, included below is a table with a summary of the results.

Witnesses: J. Denomy
S. Murray

Please note the following:

- 1) Item a (ii) would only marginal impact Transportation Savings and thus this scenario has not been included in the response;
- 2) Item a (iv) has been included as requested. However, the economic feasibility assumes all costs and distribution revenue rates are held constant in current year terms. This is consistent with past LTC applications.
- 3) Item a (v) has been included as requested. However, as per Exhibit E, Tab 1, Schedule 2, paragraph 6, the cost to terminate the TSA after the initial term or any subsequent term will be TransCanada's proportionate share of the Shared Pipeline's net book value as of the termination date. This value has not been included here but would afford an offsetting impact.

Witnesses: J. Denomy
S. Murray

| SUMMARY OF INPUTS | | Attachment 1 | Attachment 2 | Attachment 3 | Attachment 4 | Attachment 5 | Attachment 6 |
|--|--|-----------------|------------------|--------------------|-------------------|---|---|
| | | Base Case | A.2-CCC-12(a)(i) | A.2-CCC-12(a)(iii) | A.2-CCC-12(a)(iv) | A.2-CCC-12(a)(v) Remove Transp. Servic Charge after Yr. 15 | A.2-CCC-12(b) Combination of (i), (iii), and (iv) |
| <u>Capital Investment</u> | | | | | | | |
| Mains Stations | | | | | | | |
| Land/Land Rights | | | | | | | |
| Total | | \$554,575,341 | \$610,032,875 | \$554,575,341 | \$554,575,341 | \$554,575,341 | \$610,032,875 |
| <u>Future Reinforcement Projects</u> | | | | | | | |
| 2017 | | \$21,000,000 | \$23,100,000 | \$21,000,000 | \$21,000,000 | \$21,000,000 | \$23,100,000 |
| 2018 | | \$16,400,000 | \$18,040,000 | \$16,400,000 | \$16,400,000 | \$16,400,000 | \$18,040,000 |
| 2019 | | \$13,000,000 | \$14,300,000 | \$13,000,000 | \$13,000,000 | \$13,000,000 | \$14,300,000 |
| 2020 | | \$250,000 | \$275,000 | \$250,000 | \$250,000 | \$250,000 | \$275,000 |
| <u>Capital Maintenance Costs</u> ¹ | | \$5,218,238 | \$5,740,062 | \$5,218,238 | \$5,218,238 | \$5,218,238 | \$5,740,062 |
| <u>Services</u> ² | | \$379,533,696 | \$417,487,066 | \$379,533,696 | \$379,533,696 | \$379,533,696 | \$417,487,066 |
| <u>Total Capital</u> | | \$989,977,275 | \$1,088,975,003 | \$989,977,275 | \$989,977,275 | \$989,977,275 | \$1,088,975,003 |
| <u>Total Transportation Savings</u> ¹ | | \$1,632,014,615 | \$1,632,014,615 | \$1,468,813,153 | \$1,632,014,615 | \$392,136,859 | \$1,468,813,153 |
| <u>Total Transportation Services Charge</u> ¹ | | \$277,595,905 | \$304,607,380 | \$277,595,905 | \$277,595,905 | \$152,102,980 | \$277,595,905 |
| <u>Total Customer Additions (2015 - 2024)</u> | | 146,337 | 146,337 | 146,337 | 146,337 | 146,337 | 146,337 |
| <u>Total Volumes (10³ m³)¹</u> | | 24,709,032 | 24,709,032 | 24,709,032 | 22,537,605 | 24,709,032 | 22,537,605 |
| <u>SUMMARY OF RESULTS</u> | | | | | | | |
| Net Present Value (40 years) | | \$633,574,507 | \$568,512,325 | \$553,041,440 | \$592,612,955 | \$609,619,381 | \$22,547,856 |
| Profitability Index (40 years) | | 1.77 | 1.63 | 1.67 | 1.72 | 1.74 | 1.03 |
| | | | | | | | 1.49 |

¹Total for the 40 year horizon of analysis.

²Services include the costs for distribution mains, services and meters based on the 2013 capital budget.

Witnesses: J. Denomy
 S. Murray

GTA Project
Economic Feasibility - 40 year Horizon
DCF Analysis

| Line No. | Description | Col. 1 | Col. 2 | Col. 3 | Col. 4 | Col. 5 | Col. 6 | Col. 7 | Col. 8 | Col. 9 | Col. 10 | Col. 11 | Col. 12 | Col. 13 | Col. 14 |
|---|--|-------------|-------------|-------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| | | 10/10/09/13 | 09/13-12/13 | 01/14-12/14 | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 | Year 8 | Year 9 | Year 10 | |
| 1. | Discount factors to project outset | 1.000 | 0.991 | 0.985 | 0.982 | 0.985 | 0.9805 | 0.9780 | 0.9718 | 0.9678 | 0.9640 | 0.9605 | 0.9571 | 0.9540 | |
| INCREMENTAL CAPITAL INVESTMENT | | | | | | | | | | | | | | | |
| 1. | Investment in Mans | | | | | | | | | | | | | | |
| 2. | Investment in Services | | | | | | | | | | | | | | |
| 3. | Investment in Stations | | | | | | | | | | | | | | |
| 4. | Investment in Land | | | | | | | | | | | | | | |
| 5. | Investment in Land Rights | | | | | | | | | | | | | | |
| 6. | Annual Capital Maintenance Costs | | | | | | | | | | | | | | |
| 7. | Contribution in Aid Of Construction | | | | | | | | | | | | | | |
| 8. | Net Investment Capital | | | | | | | | | | | | | | |
| 9. | Working Capital | | | | | | | | | | | | | | |
| 10. | Total Investment | | | | | | | | | | | | | | |
| 11. | PV Of Total Investment At Project Outset | | | | | | | | | | | | | | |
| 12. | ACCUMULATED PV OF TOTAL INVESTMENT | | | | | | | | | | | | | | |
| 13. | CCATAX SHIELD | | | | | | | | | | | | | | |
| 14. | CCA Tax Shield At Project Outset | | | | | | | | | | | | | | |
| 15. | ACCUMULATED PV OF CCATAX SHIELD | | | | | | | | | | | | | | |
| INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES) | | | | | | | | | | | | | | | |
| 16. | Gas Distribution Revenue | | | | | | | | | | | | | | |
| 17. | Transportation Services Charge | | | | | | | | | | | | | | |
| 18. | Transportation Savings | | | | | | | | | | | | | | |
| 19. | Capital Expenses | | | | | | | | | | | | | | |
| 20. | O&M Expenses | | | | | | | | | | | | | | |
| 21. | Net Operating Cash (Before Taxes) | | | | | | | | | | | | | | |
| 22. | PV of Net Operating Cash (Before Taxes) At Project Outset | | | | | | | | | | | | | | |
| 23. | ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES) | | | | | | | | | | | | | | |
| TAXES | | | | | | | | | | | | | | | |
| 24. | Income Tax (Before Interest Tax Shield) | | | | | | | | | | | | | | |
| 25. | Municipal Tax | | | | | | | | | | | | | | |
| 26. | Capital Tax | | | | | | | | | | | | | | |
| 27. | Total Taxes | | | | | | | | | | | | | | |
| 28. | PV of Total Taxes At Project Outset | | | | | | | | | | | | | | |
| 29. | ACCUMULATED PV OF TOTAL TAXES | | | | | | | | | | | | | | |
| 30. | ACCUMULATED NPV AND PI | | | | | | | | | | | | | | |
| 31. | Net Present Value | | | | | | | | | | | | | | |
| | Profitability Index | | | | | | | | | | | | | | |
| | Notes: | | | | | | | | | | | | | | |

- (1) September 12/2013 is project outset as time 0.
- (2) Oct 1/2010 to Sep 12/2013 - Project planning and engineering.
- (3) Sep 12/2013 to Dec 3/2013 - mid-term discounting. Discount period equals 3.6/12*0.5 = 0.15
- (4) Jan 1 to Dec 31 2014, mid-term discounting. Discount period equals 12/12*0.5+3.6/12 = 0.80
- (5) Year 1 - capital spending Jan 1 to Dec 31 2015, mid-term discounting. Discount period equals 12/12*0.5+3.6/12 = 1.80
- (6) 50% effectively considered for the first year of customer additions/revenue
- (7) First year of customer additions/revenues Jan 1 to Dec 31 2015. Discount period equals 12/12*0.5+3.6/12 = 1.80
- (8) Transportation savings and Transportation Services merge start Oct 15, 2015, mid-term discounting. Discount period equals 2.5/12*0.5+3.6/12 = 2.196

GTA Project
Economic Feasibility - 40 year Horizon
DCF Analysis

| Line No. | Description | Col. 1 | Col. 15 | Col. 16 | Col. 17 | Col. 18 | Col. 19 | Col. 20 | Col. 21 | Col. 22 | Col. 23 | Col. 24 | Col. 25 | Col. 26 |
|---------------------------------------|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | Year 11 | Year 12 | Year 13 | Year 14 | Year 15 | Year 16 | Year 17 | Year 18 | Year 19 | Year 20 | Year 21 | Year 22 | |
| | Discount factors to project outset | | 0.510 | 0.481 | 0.455 | 0.429 | 0.406 | 0.383 | 0.362 | 0.342 | 0.323 | 0.305 | 0.288 | 0.272 |
| INCREMENTAL CAPITAL INVESTMENT | | | | | | | | | | | | | | |
| 1. | Investment in Mains | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2. | Investment in Services | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3. | Investment in Stations | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4. | Investment in Land | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5. | Investment in Land Rights | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6. | Annual Capital Maintenance Costs | (3,065) | (3,065) | (3,065) | (1,127,045) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) |
| 7. | Contribution in Aid Of Construction | (3,065) | (3,065) | (3,065) | (1,127,045) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) |
| 8. | Net Investment Capital | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 9. | Working Capital | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10. | Total Investment | (3,065) | (3,065) | (3,065) | (1,127,045) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) |
| 11. | PV Of Total Investment At Project Outset | (903,465,217) | (903,465,217) | (903,465,217) | (903,465,217) | (903,465,217) | (903,465,217) | (903,465,217) | (903,465,217) | (903,465,217) | (903,465,217) | (903,465,217) | (903,465,217) | (903,465,217) |
| 12. | ACCUMULATED PV OF TOTAL INVESTMENT | | | | | | | | | | | | | |
| 13. | CCA TAX SHIELD | | | | | | | | | | | | | |
| 14. | CCA Tax Shield At Project Outset | 10,569,339 | 9,947,762 | 9,345,119 | 8,787,978 | 8,284,644 | 7,764,128 | 7,293,970 | 6,852,327 | 6,437,467 | 6,047,782 | 5,690,020 | 5,355,135 | |
| 15. | PV OF ACCUMULATED PV OF CCA TAX SHIELD | 5,396,893 | 4,788,430 | 4,248,598 | 3,773,482 | 3,351,740 | 2,973,936 | 2,638,735 | 2,341,330 | 1,843,337 | 1,486,016 | 1,638,183 | 1,466,016 | 106,815,705 |
| 16. | INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES) | | | | | | | | | | | | | |
| 17. | Gas Distribution Revenue | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 |
| 18. | Transportation Services Charge | 11,029,094 | 10,995,577 | 11,200,983 | 10,344,904 | 10,097,332 | 9,847,778 | 9,582,590 | 9,334,403 | 9,072,839 | 8,857,931 | 8,573,866 | | |
| 19. | Transportation Savings | 161,694,879 | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) |
| 20. | O&M Expenses | (12,935,578) | (12,935,578) | (12,935,578) | (12,935,578) | (12,935,578) | (12,935,578) | (12,935,578) | (12,935,578) | (12,935,578) | (12,935,578) | (12,935,578) | (12,935,578) | (12,935,578) |
| 21. | Net Operating Cash (Before Taxes) | 233,765,870 | 72,443,700 | 72,211,183 | 70,577,989 | 71,785,210 | 71,518,538 | 71,013,186 | 71,267,784 | 70,493,445 | 68,832,937 | 69,984,472 | | |
| 22. | PV of Net Operating Cashs (Before Taxes) At Project Outset | 119,139,582 | 34,871,320 | 32,829,557 | 30,305,582 | 29,104,497 | 27,394,133 | 25,782,497 | 24,284,066 | 22,833,606 | 21,486,162 | 19,815,234 | 19,030,905 | |
| 23. | ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES) | 1,399,311,765 | 1,434,183,085 | 1,467,012,642 | 1,497,318,223 | 1,526,422,721 | 1,563,816,854 | 1,579,599,352 | 1,603,863,418 | 1,626,897,024 | 1,648,183,186 | 1,667,998,420 | 1,687,029,325 | |
| 24. | TAXES | | | | | | | | | | | | | |
| 25. | Income Tax (Before Interest Tax Shield) | (61,085,865) | (18,335,488) | (18,273,868) | (17,840,176) | (18,154,787) | (18,089,417) | (18,022,964) | (17,955,496) | (17,887,074) | (17,817,757) | (17,746,631) | | |
| 26. | Municipal Tax | (3,253,171) | (3,253,180) | (3,253,189) | (3,256,570) | (3,256,578) | (3,256,589) | (3,256,598) | (3,256,607) | (3,256,607) | (3,256,607) | (3,256,606) | (3,256,606) | |
| 27. | Capital Tax | - | - | - | - | - | - | - | - | - | - | - | | |
| 28. | Total Taxes | (64,339,036) | (21,588,688) | (21,527,057) | (21,096,746) | (21,411,366) | (21,346,005) | (21,279,362) | (21,143,860) | (21,121,103) | (20,944,647) | (20,944,647) | | |
| 29. | ACCUMULATED PV OF TOTAL TAXES | (34,425,393) | (39,817,280) | (404,604,162) | (413,662,924) | (422,346,338) | (430,522,614) | (438,220,907) | (445,488,741) | (458,715,498) | (464,556,312) | (470,350,984) | | |
| 30. | ACCUMULATED NPV AND PI | 187,105,618 | 216,373,500 | 243,664,751 | 268,685,053 | 282,457,876 | 314,649,669 | 335,372,608 | 354,730,170 | 372,817,878 | 389,723,977 | 405,236,580 | 420,028,829 | |
| 31. | Net Present Value | 1,207 | 1,239 | 1,270 | 1,297 | 1,324 | 1,348 | 1,377 | 1,393 | 1,413 | 1,431 | 1,449 | 1,465 | |
| | Profitability Index | | | | | | | | | | | | | |
| | Notes: | | | | | | | | | | | | | |

(1) September 12,2013 is project outset as time 0.
 (2) Oct 1 2010 to Sep 12 2013 - Project planning and engineering.

(3) Sep 12 2013 to Dec 31 2013 - mid-term discounting. Discount period equals 3.6/12*0.5 = 0.15

(4) Jan 1 to Dec 31 2014, mid-term discounting. Discount period equals 12/12*0.5+3.6/12 = 0.80

(5) Year 1 - capital spending Jan 1 to Dec 31 2015, mid-term discounting. Discount period equals 12/12*0.5+3.6/12 = 0.80

(6) 50% effectively considered for the first year of customer additions revenue.

(7) First year of customer additions revenues Jan 1 to Dec 31 2015. Discount period equals 12/12*0.5+3.6/12 = 0.80

(8) Transportation savings and Transportation Services Charge start Oct 15, 2015, mid-term discounting. Discount period equals 2.5/12*0.5+3.6/12 = 0.80

GTA Project
Economic Feasibility - 40 year Horizon
DCF Analysis

| Line No. | Description | Col. 1 | Col. 27 | Col. 28 | Col. 29 | Col. 30 | Col. 31 | Col. 32 | Col. 33 | Col. 34 | Col. 35 | Col. 36 | Col. 37 | Col. 38 | |
|----------|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|
| | | Year 23 | Year 24 | Year 25 | Year 26 | Year 27 | Year 28 | Year 29 | Year 30 | Year 31 | Year 32 | Year 33 | Year 34 | | |
| | Discount factors to project outset | | 0.257 | 0.243 | 0.229 | 0.216 | 0.204 | 0.193 | 0.182 | 0.172 | 0.163 | 0.154 | 0.145 | 0.137 | |
| | INCREMENTAL CAPITAL INVESTMENT | | | | | | | | | | | | | | |
| 1. | Investment in Mains | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 2. | Investment in Services | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 3. | Investment in Stations | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 4. | Investment in Land | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 5. | Investment in Land Rights | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (1,127,045) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | |
| 6. | Annual Capital Maintenance Costs | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (1,127,045) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | |
| 7. | Contribution in Aid Of Construction | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 8. | Net Investment Capital | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 9. | Working Capital | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 10. | Total Investment | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (1,127,045) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | |
| 11. | PV Of Total Investment At Project Outset | (903,465,217) | (903,465,217) | (903,465,217) | (903,465,217) | (903,465,217) | (903,465,217) | (903,465,217) | (903,465,217) | (903,465,217) | (903,465,217) | (903,465,217) | (903,465,217) | (903,465,217) | |
| 12. | ACCUMULATED PV OF TOTAL INVESTMENT | | | | | | | | | | | | | | |
| | CCA TAX SHIELD | | | | | | | | | | | | | | |
| 13. | CCA Tax Shield | 5,031,056 | 4,726,619 | 4,440,631 | 4,171,974 | 3,919,955 | 3,691,442 | 3,477,115 | 3,266,840 | 3,069,301 | 2,883,774 | 2,709,984 | 2,545,601 | 2,387,738 | |
| 14. | PV Of CCA Tax Shield At Project Outset | 1,281,956 | 1,146,389 | 1,017,229 | 902,627 | 800,942 | 712,440 | 633,188 | 562,427 | 499,080 | 442,871 | 392,985 | 348,738 | 315,218,479 | |
| 15. | ACCUMULATED PV OF CCA TAX SHIELD | 108,254,049 | 110,271,279 | 111,173,906 | 111,974,848 | 112,687,288 | 113,321,106 | 113,883,532 | 114,382,612 | 114,825,483 | 115,218,479 | 115,567,217 | | | |
| | INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES) | | | | | | | | | | | | | | |
| 16. | Gas Distribution Revenue | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | |
| 17. | Transportation Services Charge | 8,303,043 | 8,029,569 | 7,753,807 | 7,475,309 | 7,194,817 | 7,560,094 | 6,664,945 | 5,078,556 | 1,276,101 | 1,276,101 | 1,276,101 | 1,276,101 | 1,276,101 | |
| 18. | Transportation Savings | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | |
| 19. | O&M Expenses | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | |
| 20. | Net Operating Cash (Before Taxes) | 69,174,213 | 68,450,175 | 68,174,213 | 68,174,213 | 68,174,213 | 68,174,213 | 68,174,213 | 68,174,213 | 68,174,213 | 68,174,213 | 68,174,213 | 68,174,213 | 68,174,213 | |
| 21. | PV of Net Operating Cashs (Before Taxes) At Project Outset | 17,904,764 | 16,844,365 | 15,845,851 | 14,905,974 | 14,021,078 | 12,918,716 | 12,410,740 | 11,448,649 | 10,192,769 | 9,627,909 | 9,094,130 | 8,589,749 | 8,140,834,118 | |
| 22. | ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES) | 1,704,934,089 | 1,721,778,454 | 1,737,624,405 | 1,752,530,379 | 1,766,551,457 | 1,779,470,173 | 1,791,880,913 | 1,803,329,561 | 1,813,522,331 | 1,823,150,240 | 1,832,244,370 | 1,840,834,118 | | |
| | TAXES | | | | | | | | | | | | | | |
| 24. | Income Tax (Before Interest Tax Shield) | (17,612,860) | (17,540,387) | (17,467,255) | (17,393,504) | (17,319,171) | (16,873,519) | (17,177,750) | (16,874,413) | (15,746,618) | (15,749,803) | (15,750,814) | | | |
| 25. | Municipal Tax | (3,280,025) | (3,260,034) | (3,260,043) | (3,260,052) | (3,260,062) | (3,263,443) | (3,263,452) | (3,263,461) | (3,263,470) | (3,263,480) | (3,263,486) | | | |
| 26. | Capital Tax | - | - | - | - | - | - | - | - | - | - | - | | | |
| 27. | Total Taxes | (20,872,885) | (20,800,421) | (20,727,298) | (20,653,586) | (20,579,232) | (20,136,982) | (20,441,202) | (20,020,922) | (19,010,089) | (19,011,892) | (19,014,312) | | | |
| 28. | PV of Total Taxes At Project Outset | (5,380,076) | (5,044,910) | (4,748,066) | (4,468,489) | (4,205,321) | (3,886,380) | (3,726,076) | (3,446,848) | (3,091,114) | (2,919,772) | (2,604,883) | (2,604,883) | | |
| 29. | ACCUMULATED PV OF TOTAL TAXES | (475,711,061) | (480,955,971) | (485,504,037) | (488,972,537) | (494,177,758) | (498,084,148) | (501,790,224) | (505,237,072) | (508,328,186) | (511,247,958) | (514,005,528) | (516,610,720) | | |
| | ACCUMULATED NPV AND PI | | | | | | | | | | | | | | |
| 30. | Net Present Value | 433,865,472 | 446,811,316 | 458,926,429 | 470,266,531 | 480,883,330 | 490,628,086 | 499,946,577 | 508,510,805 | 516,111,541 | 523,262,548 | 529,991,804 | 536,325,398 | | |
| 31. | Profitability Index | 1,480 | 1,495 | 1,508 | 1,521 | 1,532 | 1,543 | 1,553 | 1,563 | 1,571 | 1,579 | 1,587 | | | |
| | Notes: | | | | | | | | | | | | | | |

Filed: 2013-06-07
EB-2012-0451/EB-2012-0433/EB-2013-0074
Exhibit I.A2.EGD.CCC.12
Attachment 1
Page 3 of 4

- (1) September 12,2013 is project outset as time 0.
- (2) Oct 1,2010 to Sep 12,2013 - Project planning and engineering.
- (3) Sep 12,2013 to Dec 31,2013 - mid-term discounting. Discount period equals 3.6/12*0.5 = 0.15
- (4) Jan 1 to Dec 31,2014, mid-term discounting. Discount period equals 12/12*0.5+3.6/12 = 0.80
- (5) Year 1 - capital spending Jan 1 to Dec 31,2015, mid-term discounting. Discount period equals 12/12*0.5+3.6/12 = 0.80
- (6) 50% effectively considered for the first year of customer additions/revenue.
- (7) First year of customer additions/revenue Jan 1 to Dec 31,2015. Discount period equals 12/12*0.5+3.6/12 = 0.80
- (8) Transportation savings and Transportation Services Charge start Oct 15, 2015, mid-term discounting. Discount period equals 2.5/12*0.5+3.6/12 = 0.80

GTA Project
Economic Feasibility - 40 year Horizon
DCF Analysis

GTA Project
Economic Feasibility - 40 year Horizon
DCF Analysis

| Line No. | Description | Col. 1 | Col. 2 | Col. 3 | Col. 4 | Col. 5 | Col. 6 | Col. 7 | Col. 8 | Col. 9 | Col. 10 | Col. 11 | Col. 12 | Col. 13 | Col. 14 |
|---------------------------------------|--|-------------|-------------|-------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| | | 10/10/09/13 | 09/13-12/13 | 01/14-12/14 | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 | Year 8 | Year 9 | Year 10 | |
| 12. | Discount factors to project outset | | 1.000 | 0.991 | 0.985 | 0.982 | 0.985 | 0.9805 | 0.9780 | 0.9718 | 0.9678 | 0.9640 | 0.9605 | 0.9571 | 0.9540 |
| INCREMENTAL CAPITAL INVESTMENT | | | | | | | | | | | | | | | |
| 1. | Investment in Mans | | | | | | | | | | | | | | |
| 2. | Investment in Services | | | | | | | | | | | | | | |
| 3. | Investment in Stations | | | | | | | | | | | | | | |
| 4. | Investment in Land | | | | | | | | | | | | | | |
| 5. | Investment in Land Rights | | | | | | | | | | | | | | |
| 6. | Annual Capital Maintenance Costs | | | | | | | | | | | | | | |
| 7. | Contribution in Aid Of Construction | | | | | | | | | | | | | | |
| 8. | Net Investment Capital | | | | | | | | | | | | | | |
| 9. | Working Capital | | | | | | | | | | | | | | |
| 10. | Total Investment | | | | | | | | | | | | | | |
| 11. | PV Of Total Investment At Project Outset | | | | | | | | | | | | | | |
| 12. | ACCUMULATED PV OF TOTAL INVESTMENT | | | | | | | | | | | | | | |
| 13. | CCA TAX SHIELD | | | | | | | | | | | | | | |
| 14. | CCA Tax Shield At Project Outset | | | | | | | | | | | | | | |
| 15. | ACCUMULATED PV OF CCA TAX SHIELD | | | | | | | | | | | | | | |
| 16. | INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES) | | | | | | | | | | | | | | |
| 17. | Gas Distribution Revenue | | | | | | | | | | | | | | |
| 18. | Transportation Services Charge | | | | | | | | | | | | | | |
| 19. | Transportation Savings | | | | | | | | | | | | | | |
| 20. | O&M Expenses | | | | | | | | | | | | | | |
| 21. | Net Operating Cash (Before Taxes) | | | | | | | | | | | | | | |
| 22. | PV of Net Operating Cash (Before Taxes) At Project Outset | | | | | | | | | | | | | | |
| 23. | ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES) | | | | | | | | | | | | | | |
| 24. | TAXES | | | | | | | | | | | | | | |
| 25. | Income Tax (Before Interest Tax Shield) | | | | | | | | | | | | | | |
| 26. | Municipal Tax | | | | | | | | | | | | | | |
| 27. | Capital Tax | | | | | | | | | | | | | | |
| 28. | Total Taxes | | | | | | | | | | | | | | |
| 29. | ACCUMULATED PV OF TOTAL TAXES | | | | | | | | | | | | | | |
| 30. | ACCUMULATED NPV AND PI | | | | | | | | | | | | | | |
| 31. | Net Present Value | | | | | | | | | | | | | | |
| | Profitability Index | | | | | | | | | | | | | | |
| | Notes: | | | | | | | | | | | | | | |

- (1) September 12/2013 is project outset as time 0.
- (2) Oct 1/2010 to Sep 12/2013 - Project planning and engineering.
- (3) Sep 12/2013 to Dec 3/2013 - mid-term discounting. Discount period equals 3.6/12*0.5 = 0.15
- (4) Jan 1 to Dec 31 2014, mid-term discounting. Discount period equals 12/12*0.5+3.6/12 = 0.80
- (5) Year 1 - capital spending Jan 1 to Dec 31 2015, mid-term discounting. Discount period equals 12/12*0.5+3.6/12 = 1.80
- (6) 50% effectively considered for the first year of customer additions revenue
- (7) First year of customer additions revenues Jan 1 to Dec 31 2015. Discount period equals 12/12*0.5+3.6/12 = 1.80
- (8) Transportation savings and Transportation Services merge start Oct 15, 2015, mid-term discounting. Discount period equals 2.5/12*0.5+3.6/12 = 2.196

GTA Project
Economic Feasibility - 40 year Horizon
DCF Analysis

| Line No. | Description | Col. 1 | Col. 15 | Col. 16 | Col. 17 | Col. 18 | Col. 19 | Col. 20 | Col. 21 | Col. 22 | Col. 23 | Col. 24 | Col. 25 | Col. 26 | |
|----------|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|
| | | Year 11 | Year 12 | Year 13 | Year 14 | Year 15 | Year 16 | Year 17 | Year 18 | Year 19 | Year 20 | Year 21 | Year 22 | | |
| | Discount factors to project outset | | 0.510 | 0.481 | 0.455 | 0.429 | 0.406 | 0.383 | 0.362 | 0.342 | 0.323 | 0.305 | 0.288 | 0.272 | |
| | INCREMENTAL CAPITAL INVESTMENT | | | | | | | | | | | | | | |
| 1. | Investment in Mains | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 2. | Investment in Services | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 3. | Investment in Stations | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 4. | Investment in Land | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 5. | Investment in Land Rights | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 6. | Annual Capital Maintenance Costs | (2,786) | (2,786) | (2,786) | (1,024,586) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | |
| 7. | Contribution in Aid Of Construction | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 8. | Net Investment Capital | (2,786) | (2,786) | (2,786) | (1,024,586) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | |
| 9. | Working Capital | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 10. | Total Investment | (2,786) | (2,786) | (2,786) | (1,024,586) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | |
| 11. | PV Of Total Investment At Project Outset | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | |
| 12. | ACCUMULATED PV OF TOTAL INVESTMENT | | | | | | | | | | | | | | |
| | CCA TAX SHIELD | | | | | | | | | | | | | | |
| 13. | CCA Tax Shield | 9,626,672 | 9,043,420 | 8,495,563 | 7,989,070 | 7,513,313 | 7,058,296 | 6,630,982 | 6,229,388 | 5,852,243 | 5,497,985 | 5,173,291 | 4,888,305 | | |
| 14. | PV Of CCA Tax Shield At Project Outset | 4,906,266 | 4,563,118 | 3,862,360 | 3,430,438 | 3,047,036 | 2,703,578 | 2,398,450 | 2,128,482 | 1,888,598 | 1,675,761 | 1,489,558 | 1,323,651 | | |
| 15. | ACCUMULATED PV OF CCA TAX SHIELD | 73,157,175 | 77,019,535 | 80,449,973 | 83,497,093 | 86,200,587 | 88,599,437 | 90,727,919 | 92,616,517 | 94,292,278 | 95,781,536 | 97,105,187 | | | |
| | INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES) | | | | | | | | | | | | | | |
| 16. | Gas Distribution Revenue | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | | |
| 17. | Transportation Services Charge | 10,237,680 | 10,031,051 | 9,819,951 | 10,249,931 | 9,414,241 | 9,189,951 | 8,962,036 | 8,750,582 | 8,495,877 | 8,258,092 | 8,063,321 | 7,804,920 | | |
| 18. | Transportation Savings | 14,985,391 | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | | |
| 19. | O&M Expenses | (55,727,578) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | | |
| 20. | Net Operating Cash (Before Taxes) | (12,935,757) | (12,451,657) | (71,240,278) | 70,834,847 | 70,610,601 | 70,382,642 | 70,151,188 | 69,916,483 | 68,640,527 | 67,395,757 | (14,978,688) | 69,225,086 | | |
| 21. | PV of Net Operating Cash (Before Taxes) At Project Outset | 110,413,197 | 34,933,793 | 32,388,151 | 28,897,209 | 28,727,187 | 27,046,361 | 25,462,280 | 23,969,536 | 22,563,003 | 21,237,830 | 19,587,120 | 18,821,715 | | |
| 22. | PV of Net Operating Cash (Before Taxes) At Project Outset | 1,292,256,531 | 1,316,650,323 | 1,349,038,475 | 1,378,935,683 | 1,407,862,871 | 1,434,709,232 | 1,460,171,512 | 1,484,141,048 | 1,506,704,050 | 1,527,941,880 | 1,547,529,000 | 1,566,350,715 | | |
| 23. | ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES) | | | | | | | | | | | | | | |
| | TAXES | | | | | | | | | | | | | | |
| 24. | Income Tax (Before Interest Tax Shield) | (56,626,856) | (18,150,969) | (18,094,951) | (17,666,601) | (17,986,695) | (17,927,267) | (17,866,556) | (17,743,320) | (17,680,304) | (17,245,374) | (17,559,280) | | | |
| 25. | Municipal Tax | (2,957,428) | (2,957,436) | (2,957,445) | (2,957,445) | (2,960,518) | (2,960,527) | (2,960,543) | (2,960,560) | (2,960,560) | (2,963,642) | (2,963,651) | | | |
| 26. | Capital Tax | - | - | - | - | - | - | - | - | - | - | - | | | |
| 27. | Total Taxes | (59,584,284) | (21,108,405) | (21,052,985) | (20,627,119) | (20,347,222) | (20,887,802) | (20,827,398) | (20,703,860) | (20,640,873) | (20,209,917) | (20,522,931) | | | |
| 28. | PV of Total Taxes At Project Outset | (30,367,336) | (10,160,689) | (9,571,105) | (8,857,108) | (8,495,180) | (8,000,768) | (7,681,424) | (7,085,433) | (6,291,268) | (6,291,268) | (5,817,957) | (5,580,017) | | |
| 29. | ACCUMULATED PV OF TOTAL TAXES | (32,168,497) | (362,329,196) | (371,900,291) | (380,757,399) | (389,252,579) | (397,253,347) | (404,788,061) | (411,883,494) | (418,564,918) | (424,856,186) | (430,673,843) | (436,253,854) | | |
| 30. | ACCUMULATED NPV AND PI | 177,561,928 | 206,148,149 | 232,877,556 | 257,298,095 | 280,577,138 | 302,326,309 | 322,652,725 | 341,655,310 | 359,425,486 | 376,047,810 | 391,306,530 | 405,871,885 | | |
| 31. | Net Present Value | 1,216 | 1,251 | 1,283 | 1,313 | 1,342 | 1,368 | 1,393 | 1,416 | 1,458 | 1,476 | | | | |

Notes:

(1) September 12,2013 is project outset as time 0.
 (2) Oct 1 2010 to Sep 12 2013 - Project planning and engineering.

(3) Sep 12 2013 to Dec 31 2013 - mid-term discounting. Discount period equals 3.6/12=0.5 = 0.15

(4) Jan 1 to Dec 31 2014, mid-term discounting. Discount period equals 12/12=1=1.00

(5) Year 1 - capital spending Jan 1 to Dec 31 2015, mid-term discounting. Discount period equals 12/12=0.5+1=3.6/12 = 1.80

(6) 50% effectively considered for the first year of customer additions/revenue.

(7) First year of customer additions/revenues Jan 1 to Dec 31 2015.

(8) Transportation savings and Transportation Services merge start Oct 15, 2015, mid-term discounting. Discount period equals 2.5/12=0.5+9.5/12=1+3.6/12 = 2.196

GTA Project
Economic Feasibility - 40 year Horizon
DCF Analysis

| Line No. | Description | Col. 1 | Col. 27 | Col. 28 | Col. 29 | Col. 30 | Col. 31 | Col. 32 | Col. 33 | Col. 34 | Col. 35 | Col. 36 | Col. 37 | Col. 38 |
|----------|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | Year 23 | Year 24 | Year 25 | Year 26 | Year 27 | Year 28 | Year 29 | Year 30 | Year 31 | Year 32 | Year 33 | Year 34 | |
| | Discount factors to project outset | | 0.257 | 0.243 | 0.229 | 0.216 | 0.204 | 0.193 | 0.182 | 0.172 | 0.163 | 0.154 | 0.145 | 0.137 |
| | INCREMENTAL CAPITAL INVESTMENT | | | | | | | | | | | | | |
| 1. | Investment in Mains | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2. | Investment in Services | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3. | Investment in Stations | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4. | Investment in Land | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5. | Investment in Land Rights | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6. | Annual Capital Maintenance Costs | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (1,024,586) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) |
| 7. | Contribution in Aid Of Construction | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8. | Net Investment Capital | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (1,024,586) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) |
| 9. | Working Capital | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10. | Total Investment | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 11. | PV On Total Investment At Project Outset | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) |
| 12. | ACCUMULATED PV OF TOTAL INVESTMENT | | | | | | | | | | | | | |
| | CCA TAX SHIELD | | | | | | | | | | | | | |
| 13. | CCA Tax Shield | 4,573,687 | 4,296,926 | 4,036,938 | 3,792,704 | 3,563,268 | 3,355,886 | 3,161,014 | 2,969,885 | 2,790,273 | 2,621,567 | 2,463,077 | 2,314,183 | |
| 14. | PV On CCA Tax Shield At Project Outset | 1,174,505 | 1,042,171 | 924,754 | 820,570 | 728,129 | 647,673 | 576,198 | 453,709 | 402,610 | 357,268 | 305,071 | 271,055 | |
| 15. | ACCUMULATED PV OF CCA TAX SHIELD | 98,279,692 | 99,321,863 | 100,246,617 | 101,067,187 | 101,795,316 | 102,442,989 | 103,019,187 | 103,530,484 | 103,984,193 | 104,386,803 | 104,744,071 | 105,081,106 | |
| | INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES) | | | | | | | | | | | | | |
| 16. | Gas Distribution Revenue | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 |
| 17. | Transportation Services Charge | 7,558,277 | 7,399,665 | 7,058,790 | 6,805,792 | 6,550,792 | 6,308,792 | 6,068,793 | 5,840,792 | 5,619,792 | 5,398,792 | 5,177,792 | 4,957,792 | 4,737,792 |
| 18. | Transportation Savings | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) |
| 19. | O&M Expenses | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) |
| 20. | Net Operating Cash (Before Taxes) | 68,978,883 | 68,479,396 | 68,226,388 | 67,971,405 | 67,489,358 | 66,317,038 | 66,047,531 | 62,579,813 | 62,580,754 | 62,580,754 | 62,580,754 | 62,580,754 | 62,580,754 |
| 21. | PV of Net Operating Cashs (Before Taxes) At Project Outset | 17,713,511 | 16,689,760 | 15,686,787 | 14,761,120 | 13,889,478 | 12,799,046 | 12,302,133 | 11,370,885 | 10,175,719 | 9,611,710 | 9,078,762 | 8,575,186 | 8,178,984,822 |
| 22. | ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES) | 1,584,064,226 | 1,600,733,986 | 1,616,420,773 | 1,631,181,893 | 1,645,071,371 | 1,657,870,417 | 1,670,172,556 | 1,681,543,445 | 1,691,719,164 | 1,701,330,874 | 1,710,409,636 | 1,718,984,822 | |
| | TAXES | | | | | | | | | | | | | |
| 24. | Income Tax (Before Interest Tax Shield) | (17,494,034) | (17,428,150) | (17,361,666) | (17,294,619) | (17,227,044) | (16,787,822) | (16,787,822) | (16,787,822) | (16,787,822) | (16,787,822) | (15,799,082) | (15,801,346) | |
| 25. | Municipal Tax | (2,963,059) | (2,963,667) | (2,963,676) | (2,963,684) | (2,963,692) | (2,966,774) | (2,966,774) | (2,966,774) | (2,966,774) | (2,966,774) | (2,966,774) | (2,966,816) | |
| 26. | Capital Tax | - | - | - | - | - | - | - | - | - | - | - | - | |
| 27. | Total Taxes | (20,457,693) | (20,391,817) | (20,325,342) | (20,258,303) | (20,190,736) | (19,754,588) | (19,754,588) | (19,754,588) | (19,754,588) | (19,754,588) | (19,754,588) | (18,767,154) | |
| 28. | PV of Total Taxes At Project Outset | (5,253,457) | (4,945,808) | (4,655,989) | (4,328,985) | (4,125,935) | (3,812,583) | (3,657,547) | (3,657,547) | (3,657,547) | (3,657,547) | (3,657,547) | (3,657,547) | |
| 29. | ACCUMULATED PV OF TOTAL TAXES | (441,507,311) | (446,453,118) | (491,109,107) | (455,492,082) | (459,617,327) | (463,430,520) | (467,088,067) | (470,476,768) | (473,527,906) | (476,409,897) | (479,132,065) | | |
| | ACCUMULATED NPV AND PI | | | | | | | | | | | | | |
| 30. | Net Present Value | 419,506,444 | 432,272,568 | 444,228,120 | 455,426,826 | 465,918,598 | 475,552,724 | 484,773,508 | 493,266,988 | 500,845,288 | 507,977,617 | 514,691,480 | 521,012,540 | |
| 31. | Profitability Index | 1.51 | 1.526 | 1.541 | 1.554 | 1.567 | 1.579 | 1.590 | 1.601 | 1.610 | 1.618 | 1.627 | | |
| | Notes: | | | | | | | | | | | | | |

(1) September 12,2013 is project outset as time 0.

(2) Oct 1 2010 to Sep 12 2013 - Project planning and engineering.

(3) Sep 12 2013 to Dec 31 2013 - mid-term discounting. Discount period equals 3.6/12=0.5 = 0.15

(4) Jan 1 to Dec 31 2014, mid-term discounting. Discount period equals 12/12=1 = 1.00

(5) Year 1 - capital spending Jan 1 to Dec 31 2015, mid-term discounting. Discount period equals 12/12=0.5+1=3.6/12 = 0.80

(6) 50% effectively considered for the first year of customer additions/revenue.

(7) First year of customer additions/revenues Jan 1 to Dec 31 2015. Discount period equals 12/12=0.5+1=3.6/12 = 1.80

(8) Transportation savings and Transportation Services Charge start Oct 15, 2015, mid-term discounting. Discount period equals 2.5/12=0.5+9.5/12+1=3.6/12 = 2.196

GTA Project
Economic Feasibility - 40 year Horizon
DCF Analysis

| Line No. | Description | Col. 1 | Col. 38 | Col. 40 | Col. 41 | Col. 42 | Col. 43 | Col. 44 |
|---|--|---------------|---------------|---------------|---------------|---------------|----------------------|---------------|
| | | Year 35 | Year 36 | Year 37 | Year 38 | Year 39 | Year 40 | |
| Discount factors to project outset | | | | | | | | |
| 1. | Investment in Mains | - | - | - | - | - | - | - |
| 2. | Investment in Services | - | - | - | - | - | - | - |
| 3. | Investment in Stations | - | - | - | - | - | - | - |
| 4. | Investment in Land | - | - | - | - | - | - | - |
| 5. | Investment in Land Rights | - | - | - | - | - | - | - |
| 6. | Annual Capital Maintenance Costs | (1,024,386) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) |
| 7. | Contribution in Aid Of Construction | - | - | - | - | - | - | - |
| 8. | Net Investment Capital | (1,024,386) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) |
| 9. | Working Capital | - | - | - | - | - | - | - |
| 10. | Total Investment | (1,024,386) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) |
| 11. | PV Of Total Investment At Project Outset | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) |
| 12. | ACCUMULATED PV OF TOTAL INVESTMENT | | | | | | | |
| INCREMENTAL CAPITAL INVESTMENT | | | | | | | | |
| 13. | CCA TAX SHIELD | 2,182,426 | 2,058,650 | 1,934,247 | 1,817,374 | 1,707,573 | 14,253,178 | |
| 14. | CCA Tax Shield At Project Outset | 282,385 | 251,581 | 223,254 | 198,118 | 175,814 | 1,386,046 | |
| 15. | ACCUMULATED PV OF CCA TAX SHIELD | 105,343,491 | 105,595,072 | 105,818,326 | 106,016,444 | 106,192,258 | 107,578,304 | |
| INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES) | | | | | | | | |
| 16. | Gas Distribution Revenue | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | |
| 17. | Transportation Services Charge | 1,821,379 | 1,201,871 | 1,196,125 | 1,195,596 | 1,193,988 | 1,191,556 | |
| 18. | Transportation Savings | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | |
| 19. | O&M Costs | (14,979,357) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | |
| 20. | Net Expenses | 61,198,885 | 62,622,423 | 62,616,731 | 62,616,142 | 62,614,894 | 62,612,131 | |
| 21. | Net Operating Cash (Before Taxes) | 7,918,561 | 7,652,876 | 7,227,332 | 6,826,007 | 6,446,368 | 6,088,699 | |
| 22. | PV of Net Operating Cash (Before Taxes) At Project Outset | 1,726,903,382 | 1,734,556,259 | 1,741,783,590 | 1,748,609,597 | 1,755,056,465 | 1,761,145,164 | |
| 23. | ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES) | | | | | | | |
| TAXES | | | | | | | | |
| 24. | Income Tax (Before Interest Tax Shield) | (15,430,710) | (15,807,919) | (15,806,408) | (15,806,250) | (15,805,838) | (15,805,183) | |
| 25. | Municipal Tax | (2,969,890) | (2,969,890) | (2,969,907) | (2,969,915) | (2,969,923) | (2,969,932) | |
| 26. | Capital Tax | - | - | - | - | - | - | |
| 27. | Total Taxes | (18,400,600) | (18,777,817) | (18,776,315) | (18,776,165) | (18,775,761) | (18,775,115) | |
| 28. | PV of Total Taxes At Project Outset | (484,084,861) | (486,378,880) | (488,546,055) | (490,592,911) | (492,526,084) | (494,351,864) | |
| 29. | ACCUMULATED PV OF TOTAL TAXES | | | | | | | |
| 30. | ACCUMULATED NPV AND PI | | | | | | | |
| 31. | Net Present Value | 526,832,625 | 532,442,308 | 537,725,699 | 542,702,968 | 547,392,476 | 553,041,440 | |
| | Profitability Index | 1.641 | 1.648 | 1.655 | 1.661 | 1.666 | 1.673 | |

Notes:

(1) September 12/2013 is project outset as time 0.
(2) Oct 1 2010 to Sep 12/2013 - Project planning and engineering.

(3) Sep 12/2013 to Dec 31/2013 - mid-term discounting. Discount period equals 3.6/12*0.5 = 0.15
(4) Jan 1 to Dec 31 2014, mid-term discounting. Discount period equals 12/12*0.5+3.6/12 = 0.80
(5) Year 1 - capital spending Jan 1 to Dec 31 2015, mid-term discounting. Discount period equals 12/12*0.5+3.6/12 = 1.80
(6) 50% effectively considered for the first year of customer additions/revenue
(7) First year of customer additions/revenues Jan 1 to Dec 31 2015. Discount period equals 12/12*0.5+3.6/12 = 1.80
(8) Transportation savings and Transportation Services merge start Oct 15, 2015, mid-term discounting. Discount period equals 2.5/12*0.5+3.6/12 = 2.196

GTA Project
Economic Feasibility - 40 year Horizon
DCF Analysis

| Line No. | Description | Col. 1 | Col. 2 | Col. 3 | Col. 4 | Col. 5 | Col. 6 | Col. 7 | Col. 8 | Col. 9 | Col. 10 | Col. 11 | Col. 12 | Col. 13 | Col. 14 |
|---------------------------------------|--|-------------|-------------|-------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| | | 10/10/09/13 | 09/13-12/13 | 01/14-12/14 | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 | Year 8 | Year 9 | Year 10 | |
| 1. | Discount factors to project outset | 1.000 | 0.991 | 0.985 | 0.982 | 0.985 | 0.9805 | 0.9780 | 0.9718 | 0.9678 | 0.9640 | 0.9605 | 0.9571 | 0.9540 | |
| INCREMENTAL CAPITAL INVESTMENT | | | | | | | | | | | | | | | |
| 1. | Investment in Mans | | | | | | | | | | | | | | |
| 2. | Investment in Services | | | | | | | | | | | | | | |
| 3. | Investment in Stations | | | | | | | | | | | | | | |
| 4. | Investment in Land | | | | | | | | | | | | | | |
| 5. | Investment in Land Rights | | | | | | | | | | | | | | |
| 6. | Annual Capital Maintenance Costs | | | | | | | | | | | | | | |
| 7. | Contribution in Aid Of Construction | | | | | | | | | | | | | | |
| 8. | Net Investment Capital | | | | | | | | | | | | | | |
| 9. | Working Capital | | | | | | | | | | | | | | |
| 10. | Total Investment | | | | | | | | | | | | | | |
| 11. | PV Of Total Investment At Project Outset | | | | | | | | | | | | | | |
| 12. | ACCUMULATED PV OF TOTAL INVESTMENT | | | | | | | | | | | | | | |
| 13. | CCA TAX SHIELD | | | | | | | | | | | | | | |
| 14. | CCA Tax Shield At Project Outset | | | | | | | | | | | | | | |
| 15. | ACCUMULATED PV OF CCA TAX SHIELD | | | | | | | | | | | | | | |
| 16. | INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES) | | | | | | | | | | | | | | |
| 17. | Gas Distribution Revenue | | | | | | | | | | | | | | |
| 18. | Transportation Services Charge | | | | | | | | | | | | | | |
| 19. | Transportation Savings | | | | | | | | | | | | | | |
| 20. | O&M Expenses | | | | | | | | | | | | | | |
| 21. | Net Operating Cash (Before Taxes) | | | | | | | | | | | | | | |
| 22. | PV of Net Operating Cashs (Before Taxes) At Project Outset | | | | | | | | | | | | | | |
| 23. | ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES) | | | | | | | | | | | | | | |
| 24. | TAXES | | | | | | | | | | | | | | |
| 25. | Income Tax (Before Interest Tax Shield) | | | | | | | | | | | | | | |
| 26. | Municipal Tax | | | | | | | | | | | | | | |
| 27. | Capital Tax | | | | | | | | | | | | | | |
| 28. | Total Taxes | | | | | | | | | | | | | | |
| 29. | ACCUMULATED PV OF TOTAL TAXES | | | | | | | | | | | | | | |
| 30. | ACCUMULATED NPV AND PI | | | | | | | | | | | | | | |
| 31. | Net Present Value | | | | | | | | | | | | | | |
| | Profitability Index | | | | | | | | | | | | | | |
| | Notes: | | | | | | | | | | | | | | |

- (1) September 12/2013 is project outset as time 0.
(2) Oct 1 2010 to Sep 12/2013 - Project planning and engineering.
(3) Sep 12/2013 to Dec 31/2013 - mid-term discounting. Discount period equals 3.6/12*0.5 = 0.15
(4) Jan 1 to Dec 31 2014, mid -term discounting. Discount period equals 12/12*0.5+3.6/12 = 0.80
(5) Year 1 - capital spending Jan 1 to Dec 31 2015, mid -term discounting. Discount period equals 12/12*0.5+3.6/12 = 1.80
(6) 50% effectively considered for the first year of customer additions revenue
(7) First year of customer additions revenues Jan 1 to Dec 31 2015. Discount period equals 12/12*0.5+3.6/12 = 1.80
(8) Transportation savings and Transportation Services Charge start Oct 15, 2015, mid-term discounting. Discount period equals 2.5/12*0.5+3.6/12+1+3.6/12 = 2.196

GTA Project
Economic Feasibility - 40 year Horizon
DCF Analysis

| Line No. | Description | Col. 1 | Col. 15 | Col. 16 | Col. 17 | Col. 18 | Col. 19 | Col. 20 | Col. 21 | Col. 22 | Col. 23 | Col. 24 | Col. 25 | Col. 26 |
|---------------------------------------|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | Year 11 | Year 12 | Year 13 | Year 14 | Year 15 | Year 16 | Year 17 | Year 18 | Year 19 | Year 20 | Year 21 | Year 22 | |
| | Discount factors to project outset | | 0.510 | 0.481 | 0.455 | 0.429 | 0.406 | 0.383 | 0.362 | 0.342 | 0.323 | 0.305 | 0.288 | 0.272 |
| INCREMENTAL CAPITAL INVESTMENT | | | | | | | | | | | | | | |
| 1. | Investment in Mains | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2. | Investment in Services | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3. | Investment in Stations | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4. | Investment in Land | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5. | Investment in Land Rights | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6. | Annual Capital Maintenance Costs | (2,786) | (2,786) | (2,786) | (1,024,586) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) |
| 7. | Contribution in Aid Of Construction | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8. | Net Investment Capital | (2,786) | (2,786) | (2,786) | (1,024,586) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) |
| 9. | Working Capital | 2,700 | 2,686 | 2,673 | 2,660 | 2,646 | 2,633 | 2,620 | 2,594 | 2,581 | (205) | (205) | (205) | (205) |
| 10. | Total Investment | (86) | (100) | (113) | (1,021,926) | (140) | (153) | (166) | (179) | (192) | (192) | (192) | (192) | (192) |
| 11. | PV Of Total Investment At Project Outset | (821,300,524) | (821,300,524) | (821,300,524) | (821,300,524) | (821,300,524) | (821,300,524) | (821,300,524) | (821,300,524) | (821,300,524) | (821,300,524) | (821,300,524) | (821,300,524) | (821,300,524) |
| 12. | ACCUMULATED PV OF TOTAL INVESTMENT | | | | | | | | | | | | | |
| 13. | CCA TAX SHIELD | | | | | | | | | | | | | |
| 14. | CCA Tax Shield At Project Outset | 9,626,672 | 9,043,420 | 8,495,563 | 7,989,070 | 7,513,313 | 7,058,296 | 6,630,882 | 6,229,388 | 5,852,243 | 5,497,985 | 5,173,291 | 4,886,305 | 4,689,587 |
| 15. | PV OF CCA TAX SHIELD | 4,906,266 | 4,353,118 | 3,862,360 | 3,430,438 | 3,047,036 | 2,703,578 | 2,389,450 | 2,128,482 | 1,888,598 | 1,675,761 | 1,489,558 | 1,323,651 | 1,170,187 |
| 16. | INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES) | | | | | | | | | | | | | |
| 17. | Gas Distribution Revenue | 123,724,155 | 123,105,534 | 122,490,006 | 121,877,556 | 121,268,169 | 120,661,828 | 119,458,226 | 118,860,935 | 117,675,297 | 117,086,921 | 116,500,630 | 116,000,321 | 115,500,000 |
| 18. | Transportation Services Charge | 10,237,680 | 10,031,051 | 9,819,972 | 10,249,931 | 9,414,241 | 9,189,955 | 8,962,336 | 8,750,582 | 8,495,877 | 8,258,092 | 8,063,321 | 7,804,480 | 7,544,240 |
| 19. | Transportation Savings | 161,064,879 | (52,738,049) | (52,474,359) | (52,211,967) | (51,950,327) | (51,691,173) | (51,432,717) | (51,175,583) | (50,919,675) | (50,665,077) | (50,411,752) | (50,159,693) | (50,000,000) |
| 20. | O&M Expenses | (33,003,064) | (12,935,757) | (12,935,757) | (14,979,357) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) |
| 21. | Net Operating Cash (Before Taxes) | 229,111,891 | 67,462,779 | 66,899,662 | 64,936,143 | 65,795,725 | 64,652,080 | 64,077,508 | 63,501,380 | 62,923,888 | 60,947,709 | 61,795,757 | 61,795,757 | 61,795,757 |
| 22. | PV of Net Operating Cash (Before Taxes) At Project Outset | 116,770,724 | 32,473,716 | 30,414,721 | 27,883,022 | 26,883,363 | 24,983,444 | 23,389,139 | 21,884,253 | 20,492,761 | 19,178,987 | 17,545,280 | 16,801,796 | 16,801,796 |
| 23. | ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES) | | | | | | | | | | | | | |
| 24. | TAXES | | | | | | | | | | | | | |
| 25. | Income Tax (Before Interest Tax Shield) | (59,932,523) | (17,093,916) | (16,944,661) | (16,423,541) | (16,651,328) | (16,500,065) | (16,348,257) | (16,195,983) | (16,043,317) | (15,365,778) | (15,590,559) | (15,365,778) | (15,365,778) |
| 26. | Municipal Tax | (2,957,428) | (2,957,426) | (2,957,445) | (2,957,445) | (2,960,518) | (2,960,527) | (2,960,543) | (2,960,562) | (2,960,562) | (2,960,562) | (2,960,562) | (2,960,562) | (2,960,562) |
| 27. | Capital Tax | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 28. | Total Taxes | (62,889,951) | (20,051,382) | (19,902,106) | (19,611,854) | (19,460,590) | (19,003,877) | (19,156,545) | (19,003,877) | (18,850,848) | (18,329,240) | (18,554,210) | (18,554,210) | (18,554,210) |
| 29. | ACCUMULATED PV OF TOTAL TAXES | | | | | | | | | | | | | |
| 30. | ACCUMULATED NPV AND PI | | | | | | | | | | | | | |
| 31. | Net Present Value | 251,783,080 | 278,958,045 | 304,186,980 | 327,177,092 | 348,954,072 | 369,186,989 | 387,989,656 | 405,466,908 | 421,715,457 | 436,824,531 | 450,582,499 | 463,663,213 | 463,663,213 |
| | Profitability Index | 1.307 | 1.340 | 1.370 | 1.398 | 1.425 | 1.450 | 1.472 | 1.494 | 1.513 | 1.532 | 1.549 | 1.565 | 1.565 |
| | Notes: | | | | | | | | | | | | | |

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EB-2012-0451/EB-2012-0433/EB-2013-0074

Exhibit I.A2.EGD.CCC.12

Attachment 3

Page 2 of 4

- (1) September 12,2013 is project outset as time 0.
- (2) Oct 1 2010 to Sep 12 2013 - Project planning and engineering.
- (3) Sep 12 2013 to Dec 31 2013 - mid-term discounting. Discount period equals 3.6/12*0.5 = 0.15
- (4) Jan 1 to Dec 31 2014, mid-term discounting. Discount period equals 12/12*0.5+3.6/12 = 0.80
- (5) Year 1 - capital spending Jan 1 to Dec 31 2015, mid-term discounting. Discount period equals 12/12*0.5+3.6/12 = 0.80
- (6) 50% effectively considered for the first year of customer additions revenue.
- (7) First year of customer additions revenues Jan 1 to Dec 31 2015. Discount period equals 12/12*0.5+3.6/12 = 0.80
- (8) Transportation savings and Transportation Services Charge start Oct 15, 2015, mid-term discounting. Discount period equals 2.5/12*0.5+3.6/12 = 0.80

GTA Project
Economic Feasibility - 40 year Horizon
DCF Analysis

| Line No. | Description | Col. 1 | Col. 27 | Col. 28 | Col. 29 | Col. 30 | Col. 31 | Col. 32 | Col. 33 | Col. 34 | Col. 35 | Col. 36 | Col. 37 | Col. 38 |
|----------|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | Year 23 | Year 24 | Year 25 | Year 26 | Year 27 | Year 28 | Year 29 | Year 30 | Year 31 | Year 32 | Year 33 | Year 34 | |
| | Discount factors to project outset | | 0.257 | 0.243 | 0.229 | 0.216 | 0.204 | 0.193 | 0.182 | 0.172 | 0.163 | 0.154 | 0.145 | 0.137 |
| | INCREMENTAL CAPITAL INVESTMENT | | | | | | | | | | | | | |
| 1. | Investment in Mains | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2. | Investment in Services | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3. | Investment in Stations | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4. | Investment in Land | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5. | Investment in Land Rights | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6. | Annual Capital Maintenance Costs | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) |
| 7. | Contribution in Aid Of Construction | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8. | Net Investment Capital | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) |
| 9. | Working Capital | 2,542 | 2,530 | 2,517 | 2,509 | 2,496 | 2,484 | 2,472 | 2,460 | 2,448 | 2,436 | 2,424 | 2,412 | 2,400 |
| 10. | Total Investment | (244) | (236) | (229) | (221) | (214) | (207) | (200) | (193) | (186) | (179) | (172) | (165) | (158) |
| 11. | PV Of Total Investment At Project Outset | (821,300,524) | (821,300,524) | (821,300,524) | (821,300,524) | (821,300,524) | (821,300,524) | (821,300,524) | (821,300,524) | (821,300,524) | (821,300,524) | (821,300,524) | (821,300,524) | (821,300,524) |
| 12. | ACCUMULATED PV OF TOTAL INVESTMENT | | | | | | | | | | | | | |
| | CCATAX SHIELD | | | | | | | | | | | | | |
| 13. | CCA Tax Shield | 4,573,687 | 4,296,926 | 4,036,938 | 3,792,704 | 3,563,268 | 3,355,886 | 3,161,014 | 2,969,885 | 2,790,273 | 2,621,567 | 2,463,077 | 2,314,183 | |
| 14. | PV Of CCA Tax Shield At Project Outset | 1,174,505 | 1,042,171 | 924,754 | 820,570 | 728,129 | 647,673 | 576,198 | 453,709 | 402,610 | 357,268 | 307,035 | | |
| 15. | ACCUMULATED PV OF CCATAX SHIELD | 98,279,692 | 99,321,863 | 100,246,617 | 101,067,187 | 101,798,316 | 102,442,989 | 103,019,187 | 103,530,484 | 103,984,193 | 104,386,803 | 104,744,071 | 105,081,106 | |
| | INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES) | | | | | | | | | | | | | |
| 16. | Gas Distribution Revenue | 116,501,486 | 115,918,979 | 115,339,384 | 115,339,384 | 115,339,384 | 115,339,384 | 115,339,384 | 115,339,384 | 115,339,384 | 115,339,384 | 115,339,384 | 115,339,384 | 115,339,384 |
| 17. | Gas Distribution Services Charge | 7,558,277 | 7,399,665 | 7,058,790 | 6,805,792 | 6,550,792 | 6,308,792 | 6,068,792 | 5,836,792 | 5,606,792 | 5,374,792 | 5,145,792 | 4,914,792 | 4,682,792 |
| 18. | Transportation Savings | (49,908,894) | (49,659,350) | (49,411,053) | (49,411,053) | (49,411,053) | (49,411,053) | (49,411,053) | (49,411,053) | (49,411,053) | (49,411,053) | (49,411,053) | (49,411,053) | (49,411,053) |
| 19. | Transportation Costs | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) |
| 20. | O&M Expenses | 61,215,111 | 60,633,536 | 60,051,363 | 59,543,373 | 59,798,365 | 59,543,373 | 59,061,307 | 57,619,498 | 54,151,780 | 54,151,780 | 54,151,780 | 54,166,199 | 54,166,199 |
| 21. | Net Operating Cash (Before Taxes) | 15,719,804 | 14,705,987 | 13,756,152 | 12,937,673 | 12,167,369 | 11,172,453 | 10,765,950 | 9,919,905 | 8,805,288 | 8,317,366 | 7,856,279 | 7,420,575 | 7,084,279 |
| 22. | PV of Net Operating Cash (Before Taxes) At Project Outset | 1,680,657,852 | 1,675,363,839 | 1,689,119,991 | 1,702,057,665 | 1,714,224,933 | 1,725,397,387 | 1,736,163,236 | 1,746,083,142 | 1,754,888,430 | 1,763,205,796 | 1,771,062,075 | 1,778,482,650 | |
| 23. | ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES) | | | | | | | | | | | | | |
| | TAXES | | | | | | | | | | | | | |
| 24. | Income Tax (Before Interest Tax Shield) | (15,436,635) | (15,282,515) | (15,128,237) | (15,061,190) | (14,983,615) | (14,983,615) | (14,983,615) | (14,983,615) | (14,982,970) | (13,565,653) | (13,567,836) | | |
| 25. | Municipal Tax | (2,963,659) | (2,963,667) | (2,963,676) | (2,963,684) | (2,963,692) | (2,963,692) | (2,963,692) | (2,963,692) | (2,966,781) | (2,966,781) | (2,966,781) | | |
| 26. | Capital Tax | - | - | - | - | - | - | - | - | - | - | - | | |
| 27. | Total Taxes | (18,400,284) | (18,246,182) | (18,091,913) | (18,024,874) | (17,957,308) | (17,887,308) | (17,812,325) | (17,749,752) | (16,532,453) | (16,532,453) | (16,532,453) | | |
| 28. | PV of Total Taxes At Project Outset | (4,725,124) | (4,425,408) | (4,144,370) | (3,899,771) | (3,669,449) | (3,669,449) | (3,381,156) | (3,250,432) | (2,887,974) | (2,538,980) | (2,538,980) | | |
| 29. | ACCUMULATED PV OF TOTAL TAXES | (491,804,622) | (468,230,030) | (470,374,400) | (474,274,171) | (477,943,821) | (481,325,167) | (484,325,167) | (487,579,788) | (492,806,752) | (495,204,961) | (497,470,149) | | |
| | ACCUMULATED NPV AND PI | | | | | | | | | | | | | |
| 30. | Net Present Value | 475,832,398 | 487,155,149 | 497,691,684 | 507,550,156 | 516,776,104 | 525,214,685 | 533,306,300 | 540,733,313 | 547,304,337 | 553,485,323 | 559,300,661 | 564,773,083 | |
| 31. | Profitability Index | 1,579 | 1,593 | 1,596 | 1,618 | 1,629 | 1,639 | 1,649 | 1,658 | 1,666 | 1,674 | 1,681 | 1,688 | |

Notes:

(1) September 12,2013 is project outset as time 0.
 (2) Oct 1,2010 to Sep 12,2013 - Project planning and engineering.

(3) Sep 12,2013 to Dec 31,2013 - mid-term discounting. Discount period equals 3.6/12=0.5 = 0.15

(4) Jan 1 to Dec 31 2014, mid-term discounting. Discount period equals 12/12=1 = 1.00

(5) Year 1 - capital spending Jan 1 to Dec 31 2015, mid-term discounting. Discount period equals 12/12=0.5+1=3.6/12 = 1.80

(6) 50% effectively considered for the first year of customer additions/revenue.

(7) First year of customer additions/revenues Jan 1 to Dec 31 2015. Discount period equals 12/12=0.5+1=3.6/12 = 1.80

(8) Transportation savings and Transportation Services Charge start Oct 15, 2015, mid-term discounting. Discount period equals 2.5/12=0.5+9.5/12+1=3.6/12 = 2.196

GTA Project
Economic Feasibility - 40 year Horizon
DCF Analysis

| Line No. | Description | Col. 1 | Col. 38 | Col. 40 | Col. 41 | Col. 42 | Col. 43 | Col. 44 |
|---|--|---------------|---------------|---------------|---------------|---------------|----------------------|---------------|
| | | Year 35 | Year 36 | Year 37 | Year 38 | Year 39 | Year 40 | |
| Discount factors to project outset | | | | | | | | |
| INCREMENTAL CAPITAL INVESTMENT | | | | | | | | |
| 1. | Investment in Mains | - | - | - | - | - | - | - |
| 2. | Investment in Services | - | - | - | - | - | - | - |
| 3. | Investment in Stations | - | - | - | - | - | - | - |
| 4. | Investment in Land | - | - | - | - | - | - | - |
| 5. | Investment in Land Rights | - | - | - | - | - | - | - |
| 6. | Annual Capital Maintenance Costs | (1,024,586) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) |
| 7. | Contribution in Aid Of Construction | - | - | - | - | - | - | - |
| 8. | Net Investment Capital | (1,024,586) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) |
| 9. | Working Capital | - | - | - | - | - | - | - |
| 10. | Total Investment | (1,024,586) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) |
| 11. | PV Of Total Investment At Project Outset | (821,300,524) | (821,300,524) | (821,300,524) | (821,300,524) | (821,300,524) | (821,300,524) | (821,300,524) |
| 12. | ACCUMULATED PV OF TOTAL INVESTMENT | | | | | | | |
| CCA TAX SHIELD | | | | | | | | |
| 13. | CCA Tax Shield At Project Outset | 2,182,426 | 2,058,650 | 1,934,247 | 1,817,374 | 1,707,573 | 14,253,178 | |
| 14. | PV Of CCA Tax Shield At Project Outset | 282,385 | 251,581 | 223,254 | 198,118 | 175,814 | 1,386,046 | |
| 15. | ACCUMULATED PV OF CCA TAX SHIELD | 105,343,491 | 105,595,072 | 105,818,326 | 106,016,444 | 106,192,258 | 107,578,304 | |
| INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES) | | | | | | | | |
| 16. | Gas Distribution Revenue | 115,339,384 | 115,339,384 | 115,339,384 | 115,339,384 | 115,339,384 | 115,339,384 | |
| 17. | Transportation Services Charge | 1,182,1379 | 1,120,187 | 1,196,125 | 1,195,586 | 1,193,988 | 1,191,556 | |
| 18. | Transportation Savings | (49,441,053) | (49,441,053) | (49,441,053) | (49,441,053) | (49,441,053) | (49,441,053) | |
| 19. | Gas Costs | (14,979,357) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | |
| 20. | O&M Expenses | 52,770,852 | 54,194,390 | 54,188,698 | 54,188,698 | 54,188,698 | 54,184,088 | |
| 21. | Net Operating Cash (Before Taxes) | 6,828,054 | 6,622,915 | 6,254,554 | 5,907,237 | 5,579,108 | 5,289,117 | |
| 22. | PV of Net Operating Cash (Before Taxes) At Project Outset | 1,795,310,705 | 1,791,933,619 | 1,798,188,173 | 1,804,095,410 | 1,809,674,518 | 1,814,943,635 | |
| 23. | ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES) | | | | | | | |
| TAXES | | | | | | | | |
| 24. | Income Tax (Before Interest Tax Shield) | (13,197,281) | (13,574,490) | (13,572,822) | (13,572,409) | (13,572,409) | (13,571,754) | |
| 25. | Municipal Tax | (2,969,890) | (2,969,890) | (2,969,907) | (2,969,915) | (2,969,923) | (2,969,932) | |
| 26. | Capital Tax | - | - | - | - | - | - | |
| 27. | Total Taxes | (16,167,171) | (16,544,389) | (16,542,886) | (16,542,737) | (16,542,532) | (16,541,686) | |
| 28. | PV of Total Taxes At Project Outset | (2,091,877) | (2,021,834) | (1,909,409) | (1,803,382) | (1,703,217) | (1,608,591) | |
| 29. | ACCUMULATED PV OF TOTAL TAXES | (499,562,026) | (501,583,880) | (503,493,269) | (505,296,631) | (506,999,368) | (508,608,459) | |
| 30. | ACCUMULATED NPV AND PI | | | | | | | |
| 31. | Net Present Value | 569,791,645 | 574,644,306 | 579,212,706 | 583,514,679 | 587,566,384 | 592,612,965 | |
| | Profitability Index | 1.694 | 1.700 | 1.705 | 1.710 | 1.715 | 1.7216 | |

Notes:

(1) September 12/2013 is project outset as time 0.
(2) Oct 1 2010 to Sep 12/2013 - Project planning and engineering.

(3) Sep 12/2013 to Dec 3/2013, mid-term discounting. Discount period equals 3.6/12*0.5 = 0.15
(4) Jan 1 to Dec 31 2014, mid-term discounting. Discount period equals 12/12*0.5+3.6/12 = 0.80
(5) Year 1 - capital spending Jan 1 to Dec 31 2015, mid-term discounting. Discount period equals 12/12*0.5+3.6/12 = 1.80

(6) 50% effectively considered for the first year of customer additions/revenue.

(7) First year of customer additions/revenues Jan 1 to Dec 31 2015.

(8) Transportation savings and Transportation Services merge start Oct 15, 2015, mid-term discounting. Discount period equals 2.5/12*0.5+3.6/12 = 2.196

GTA Project
Economic Feasibility - 40 year Horizon
DCF Analysis

| Line No. | Description | Col. 1 | Col. 2 | Col. 3 | Col. 4 | Col. 5 | Col. 6 | Col. 7 | Col. 8 | Col. 9 | Col. 10 | Col. 11 | Col. 12 | Col. 13 | Col. 14 |
|--|------------------------------------|-------------|-------------|-------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| | | 10/10/09/13 | 09/13-12/13 | 01/14-12/14 | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 | Year 8 | Year 9 | Year 10 | |
| | Discount factors to project outset | | 1.000 | 0.991 | 0.985 | 0.982 | 0.985 | 0.9805 | 0.9780 | 0.9718 | 0.9678 | 0.9640 | 0.9605 | 0.9571 | 0.9540 |
| INCREMENTAL CAPITAL INVESTMENT | | | | | | | | | | | | | | | |
| 1. Investment in Mans | | | | | | | | | | | | | | | |
| 2. Investment in Services | | | | | | | | | | | | | | | |
| 3. Investment in Stations | | | | | | | | | | | | | | | |
| 4. Investment in Land | | | | | | | | | | | | | | | |
| 5. Investment in Land Rights | | | | | | | | | | | | | | | |
| 6. Annual Capital Maintenance Costs | | | | | | | | | | | | | | | |
| 7. Contribution in Aid Of Construction | | | | | | | | | | | | | | | |
| 8. Net Investment Capital | | | | | | | | | | | | | | | |
| 9. Working Capital | | | | | | | | | | | | | | | |
| 10. Total Investment | | | | | | | | | | | | | | | |
| 11. PV Of Total Investment At Project Outset | | | | | | | | | | | | | | | |
| 12. ACCUMULATED PV OF TOTAL INVESTMENT | | | | | | | | | | | | | | | |
| CCATX SHIELD | | | | | | | | | | | | | | | |
| 13. CCA Tax Shield | | | | | | | | | | | | | | | |
| 14. PV Of CCA Tax Shield At Project Outset | | | | | | | | | | | | | | | |
| 15. ACCUMULATED PV OF CCATX SHIELD | | | | | | | | | | | | | | | |
| INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES) | | | | | | | | | | | | | | | |
| 16. Gas Distribution Revenue | | | | | | | | | | | | | | | |
| 17. Transportation Services Charge | | | | | | | | | | | | | | | |
| 18. Transportation Savings | | | | | | | | | | | | | | | |
| 19. O&M Expenses | | | | | | | | | | | | | | | |
| 20. Net Expenses | | | | | | | | | | | | | | | |
| 21. Net Operating Cash (Before Taxes) | | | | | | | | | | | | | | | |
| 22. PV of Net Operating Cash (Before Taxes) At Project Outset | | | | | | | | | | | | | | | |
| 23. ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES) | | | | | | | | | | | | | | | |
| TAXES | | | | | | | | | | | | | | | |
| 24. Income Tax (Before Interest Tax Shield) | | | | | | | | | | | | | | | |
| 25. Municipal Tax | | | | | | | | | | | | | | | |
| 26. Capital Tax | | | | | | | | | | | | | | | |
| 27. Total Taxes | | | | | | | | | | | | | | | |
| 28. PV of Total Taxes At Project Outset | | | | | | | | | | | | | | | |
| 29. ACCUMULATED PV OF TOTAL TAXES | | | | | | | | | | | | | | | |
| ACCUMULATED NPV AND PI | | | | | | | | | | | | | | | |
| 30. Net Present Value | | | | | | | | | | | | | | | |
| 31. Profitability Index | | | | | | | | | | | | | | | |

Notes:

- (1) September 12/2013 is project outset as time 0.
- (2) Oct 1 2010 to Sep 12/2013 - Project planning and engineering.
- (3) Sep 12/2013 to Dec 31/2013 - mid-term discounting. Discount period equals 3.6/12*0.5 = 0.15
- (4) Jan 1 to Dec 31 2014, mid-term discounting. Discount period equals 12/12*0.5+3.6/12 = 0.80
- (5) Year 1 - capital spending Jan 1 to Dec 31 2015, mid-term discounting. Discount period equals 12/12*0.5+3.6/12 = 1.80
- (6) 50% effectively considered for the first year of customer additions/revenue.
- (7) First year of customer additions/revenues Jan 1 to Dec 31 2015. Discount period equals 12/12*0.5+3.6/12 = 1.80
- (8) Transportation savings and Transportation Services Charge start Oct 15, 2015, mid-term discounting. Discount period equals 2.5/12*0.5+3.6/12 = 2.196

GTA Project
Economic Feasibility - 40 year Horizon
DCF Analysis

| Line No. | Description | Col. 1 | Col. 15 | Col. 16 | Col. 17 | Col. 18 | Col. 19 | Col. 20 | Col. 21 | Col. 22 | Col. 23 | Col. 24 | Col. 25 | Col. 26 |
|--|------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | Year 11 | Year 12 | Year 13 | Year 14 | Year 15 | Year 16 | Year 17 | Year 18 | Year 19 | Year 20 | Year 21 | Year 22 | |
| | Discount factors to project outset | | 0.510 | 0.481 | 0.455 | 0.429 | 0.406 | 0.383 | 0.362 | 0.342 | 0.323 | 0.305 | 0.288 | 0.272 |
| INCREMENTAL CAPITAL INVESTMENT | | | | | | | | | | | | | | |
| 1. Investment in Mains | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2. Investment in Services | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3. Investment in Stations | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4. Investment in Land | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5. Investment in Land Rights | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6. Annual Capital Maintenance Costs | (2,786) | (2,786) | (2,786) | (2,786) | (1,024,586) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) |
| 7. Contribution in Aid Of Construction | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8. Net Investment Capital | (2,786) | (2,786) | (2,786) | (2,786) | (1,024,586) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) |
| 9. Working Capital | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10. Total Investment | (2,786) | (2,786) | (2,786) | (2,786) | (1,024,586) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) |
| 11. PV Of Total Investment At Project Outset | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) |
| ACCUMULATED PV OF TOTAL INVESTMENT | | | | | | | | | | | | | | |
| CCA TAX SHIELD | | | | | | | | | | | | | | |
| 13. CCA Tax Shield | 9,626,672 | 9,043,420 | 8,495,563 | 7,989,070 | 7,513,313 | 7,058,296 | 6,630,982 | 6,229,388 | 5,852,243 | 5,497,985 | 5,173,291 | 4,888,305 | | |
| 14. PV Of CCA Tax Shield At Project Outset | 4,906,266 | 4,353,118 | 3,862,360 | 3,430,438 | 3,047,036 | 2,703,578 | 2,398,450 | 2,128,482 | 1,888,598 | 1,675,761 | 1,489,558 | 1,323,651 | | |
| 15. ACCUMULATED PV OF CCA TAX SHIELD | 73,157,175 | 77,019,535 | 80,449,973 | 83,497,093 | 86,200,587 | 88,599,437 | 90,727,919 | 92,616,517 | 94,292,278 | 95,781,536 | 97,105,187 | | | |
| INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES) | | | | | | | | | | | | | | |
| 16. Gas Distribution Revenue | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | |
| 17. Transportation Services Charge | 10,237,680 | 10,031,051 | 9,834,9672 | 10,249,931 | 9,414,241 | - | - | - | - | - | - | - | - | - |
| 18. Transportation Savings | 161,094,879 | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) |
| 19. O&M Expenses | (85,727,578) | (12,935,577) | (12,935,577) | (12,935,577) | (12,935,577) | (12,935,577) | (12,935,577) | (12,935,577) | (12,935,577) | (12,935,577) | (12,935,577) | (12,935,577) | (12,935,577) | (12,935,577) |
| 20. Net Expenses | (232,753,164 | 71,451,657 | 71,240,278 | 69,626,937 | 70,834,847 | 61,420,606 | 61,420,606 | 61,420,606 | 61,420,606 | 61,420,606 | 59,377,006 | 61,420,606 | 61,420,606 | 61,420,606 |
| 21. Net Operating Cash (Before Taxes) | 34,393,793 | 32,388,151 | 28,897,209 | 28,727,187 | 23,526,288 | 22,220,091 | 20,986,433 | 19,821,267 | 18,720,792 | 17,693,115 | 16,699,743 | 16,699,743 | 16,699,743 | 16,699,743 |
| 22. PV of Net Operating Cashs (Before Taxes) At Project Outset | 1,391,825,329 | 1,426,219,122 | 1,458,607,273 | 1,488,504,482 | 1,517,231,669 | 1,540,757,937 | 1,562,978,028 | 1,583,984,460 | 1,603,785,727 | 1,622,506,519 | 1,639,598,634 | 1,656,299,377 | | |
| ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES) | | | | | | | | | | | | | | |
| TAXES | | | | | | | | | | | | | | |
| 24. Income Tax (Before Interest Tax Shield) | (60,895,870) | (18,150,969) | (18,094,951) | (17,666,601) | (17,386,695) | (15,491,919) | (15,491,919) | (15,491,919) | (15,491,919) | (15,491,919) | (15,491,919) | (15,491,919) | (15,491,919) | (15,491,919) |
| 25. Municipal Tax | (2,957,428) | (2,957,428) | (2,957,428) | (2,957,428) | (2,957,428) | (2,960,518) | (2,960,518) | (2,960,518) | (2,960,518) | (2,960,518) | (2,960,518) | (2,960,518) | (2,960,518) | (2,960,518) |
| 26. Capital Tax | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 27. Total Taxes | (63,853,298) | (21,108,405) | (21,052,985) | (20,627,119) | (20,347,222) | (18,452,484) | (18,452,484) | (18,452,484) | (18,452,484) | (18,452,484) | (17,913,184) | (18,454,744) | | |
| 28. PV of Total Taxes At Project Outset | (32,543,054) | (10,160,689) | (9,571,105) | (8,857,108) | (8,495,180) | (7,067,943) | (6,675,534) | (6,304,911) | (5,954,864) | (5,624,253) | (449,915,815) | (450,072,561) | | |
| 29. ACCUMULATED PV OF TOTAL TAXES | (381,204,228) | (391,364,918) | (400,936,023) | (408,793,131) | (418,288,310) | (425,356,254) | (425,356,254) | (425,356,254) | (425,356,254) | (425,356,254) | (438,336,688) | (449,915,815) | (450,072,561) | (460,080,249) |
| ACCUMULATED NPV AND PI | | | | | | | | | | | | | | |
| 30. Net Present Value | 258,084,995 | 286,681,216 | 313,360,622 | 337,831,161 | 361,110,205 | 380,272,108 | 398,215,514 | 415,025,518 | 430,780,519 | 445,552,819 | 458,978,446 | 471,984,151 | | |
| 31. Profitability Index | 1.314 | 1.349 | 1.382 | 1.411 | 1.440 | 1.463 | 1.485 | 1.505 | 1.524 | 1.542 | 1.559 | | | |

Notes:

(1) September 12,2013 is project outset as time 0.

(2) Oct 1 2010 to Sep 12 2013 - Project planning and engineering.

(3) Sep 12 2013 to Dec 31 2013 - mid-term discounting. Discount period equals 3.6/12*0.5 = 0.15

(4) Jan 1 to Dec 31 2014, mid-term discounting. Discount period equals 12/12*0.5+3.6/12 = 0.80

(5) Year 1 - capital spending Jan 1 to Dec 31 2015, mid-term discounting. Discount period equals 12/12*0.5+3.6/12 = 0.80

(6) 50% effectively considered for the first year of customer additions revenue.

(7) First year of customer additions revenues Jan 1 to Dec 31 2015. Discount period equals 12/12*0.5+3.6/12 = 0.80

(8) Transportation savings and Transportation Services merge start Oct 15, 2015, mid-term discounting. Discount period equals 2.5/12*0.5+3.6/12 = 0.80

GTA Project
Economic Feasibility - 40 year Horizon
DCF Analysis

| Line No. | Description | Col. 1 | Col. 27 | Col. 28 | Col. 29 | Col. 30 | Col. 31 | Col. 32 | Col. 33 | Col. 34 | Col. 35 | Col. 36 | Col. 37 | Col. 38 | |
|---|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-----------------|-----------------|
| | | Year 23 | Year 24 | Year 25 | Year 26 | Year 27 | Year 28 | Year 29 | Year 30 | Year 31 | Year 32 | Year 33 | Year 34 | | |
| Discount factors to project outset | | | | | | | | | | | | | | | |
| 1. | INCREMENTAL CAPITAL INVESTMENT | | 0.257 | 0.243 | 0.229 | 0.216 | 0.204 | 0.193 | 0.182 | 0.172 | 0.163 | 0.154 | 0.145 | 0.137 | |
| 2. | Investment in Mains | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 3. | Investment in Services | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 4. | Investment in Land | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 5. | Investment in Land Rights | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 6. | Annual Capital Maintenance Costs | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (1,024,586) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | |
| 7. | Contribution in Aid Of Construction | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (1,024,586) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | |
| 8. | Net Investment Capital | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 9. | Working Capital | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 10. | Total Investment | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (1,024,586) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | |
| 11. | PV On Total Investment At Project Outset | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | |
| 12. | ACCUMULATED PV OF TOTAL INVESTMENT | | | | | | | | | | | | | | |
| 13. | CCA TAX SHIELD | | | | | | | | | | | | | | |
| 14. | CCA Tax Shield At Project Outset | 4,296,926 | 4,036,938 | 3,792,704 | 3,563,268 | 3,355,866 | 3,161,014 | 2,969,855 | 2,790,273 | 2,621,567 | 2,463,077 | 2,314,183 | | | |
| 15. | PV OF CCA TAX SHIELD | 1,174,505 | 924,754 | 820,570 | 728,129 | 647,673 | 576,198 | 453,709 | 402,610 | 357,268 | 307,035 | 267,035 | | | |
| 16. | INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES) | | | | | | | | | | | | | | |
| 17. | Transportation Revenue | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | | |
| 18. | Transportation Services Charge | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 19. | Gas Transportation Savings | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | | |
| 20. | O&M Expenses | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | | |
| 21. | Net Operating Cash (Before Taxes) | 61,420,606 | 61,420,606 | 61,420,606 | 61,420,606 | 61,420,606 | 61,420,606 | 61,420,606 | 61,420,606 | 61,420,606 | 61,420,606 | 61,420,606 | 61,420,606 | | |
| 22. | PV of Net Operating Cashs (Before Taxes) At Project Outset | 15,772,575 | 14,896,882 | 14,069,808 | 13,288,653 | 12,550,968 | 11,459,634 | 11,195,909 | 10,574,313 | 9,987,228 | 9,432,737 | 8,909,032 | 8,414,403 | | |
| 23. | ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES) | 1,672,071,952 | 1,686,968,834 | 1,701,038,642 | 1,714,327,296 | 1,726,878,164 | 1,738,337,988 | 1,749,533,707 | 1,760,108,020 | 1,770,985,247 | 1,779,527,984 | 1,788,437,017 | 1,796,851,420 | | |
| 24. | TAXES | | | | | | | | | | | | | | |
| 25. | Income Tax (Before Interest Tax Shield) | (15,491,091) | (15,491,089) | (15,491,087) | (15,491,084) | (15,491,082) | (15,491,080) | (15,491,078) | (15,491,076) | (15,491,074) | (15,491,072) | (15,491,070) | (15,491,068) | (15,491,066) | |
| 26. | Municipal Tax | (2,963,659) | (2,963,667) | (2,963,676) | (2,963,684) | (2,963,692) | (2,963,694) | (2,963,696) | (2,963,704) | (2,963,712) | (2,963,720) | (2,963,728) | (2,963,736) | (2,963,744) | |
| 27. | Capital Tax | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 28. | Total Taxes | (18,454,750) | (18,454,756) | (18,454,762) | (18,454,768) | (18,454,774) | (18,454,780) | (18,454,786) | (17,915,480) | (18,457,046) | (18,457,052) | (18,457,064) | (18,457,071) | (18,457,078) | |
| 29. | ACCUMULATED PV OF TOTAL TAXES | (4,739,109) | (4,475,985) | (4,227,489) | (3,992,781) | (3,771,103) | (3,457,649) | (3,364,398) | (3,177,607) | (3,001,188) | (2,834,563) | (2,677,189) | (2,528,553) | (2,499,809,221) | (2,471,132,192) |
| 30. | ACCUMULATED NPV AND PI | 484,192,123 | 495,655,181 | 506,422,254 | 516,538,697 | 526,046,590 | 534,696,249 | 543,103,958 | 551,011,960 | 558,451,709 | 572,041,605 | 578,244,490 | | | |
| 31. | Net Present Value | 1,590 | 1,603 | 1,617 | 1,629 | 1,640 | 1,651 | 1,661 | 1,671 | 1,681 | 1,688 | 1,696 | | | |
| | Profitability Index | | | | | | | | | | | | | | |
| | Notes: | | | | | | | | | | | | | | |

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Exhibit I.A2.EGD.CCC.12

Attachment 4

Page 3 of 4

- (1) September 12,2013 is project outset as time 0.
- (2) Oct 1 2010 to Sep 12 2013 - Project planning and engineering.
- (3) Sep 12 2013 to Dec 3 2013 - mid-term discounting. Discount period equals 3.6/12*0.5 = 0.15
- (4) Jan 1 to Dec 31 2014, mid-term discounting. Discount period equals 12/12*0.5+3.6/12 = 0.80
- (5) Year 1 - capital spending Jan 1 to Dec 31 2015, mid-term discounting. Discount period equals 12/12*0.5+3.6/12 = 1.80
- (6) 50% effectively considered for the first year of customer additions revenue.
- (7) First year of customer additions revenues Jan 1 to Dec 31 2015. Discount period equals 12/12*0.5+3.6/12 = 1.80
- (8) Transportation savings and Transportation Services merge start Oct 15, 2015, mid-term discounting. Discount period equals 2.5/12*0.5+3.6/12 = 2.196

GTA Project
Economic Feasibility - 40 year Horizon
DCF Analysis

| Line No. | Description | Col. 1 | Col. 38 | Col. 40 | Col. 41 | Col. 42 | Col. 43 | Col. 44 |
|---|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | Year 35 | Year 36 | Year 37 | Year 38 | Year 39 | Year 40 | |
| 1. | Discount factors to project outset | | 0.129 | 0.122 | 0.115 | 0.109 | 0.103 | 0.097 |
| INCREMENTAL CAPITAL INVESTMENT | | | | | | | | |
| 1. | Investment in Mains | - | - | - | - | - | - | - |
| 2. | Investment in Services | - | - | - | - | - | - | - |
| 3. | Investment in Stations | - | - | - | - | - | - | - |
| 4. | Investment in Land | - | - | - | - | - | - | - |
| 5. | Investment in Land Rights | - | - | - | - | - | - | - |
| 6. | Annual Capital Maintenance Costs | (1,024,386) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) |
| 7. | Contribution in Aid Of Construction | - | - | - | - | - | - | - |
| 8. | Net Investment Capital | (1,024,386) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) |
| 9. | Working Capital | - | - | - | - | - | - | - |
| 10. | Total Investment | (1,024,386) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) |
| 11. | PV Of Total Investment At Project Outset | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) |
| 12. | ACCUMULATED PV OF TOTAL INVESTMENT | | | | | | | |
| 13. | CCA TAX SHIELD | | | | | | | |
| 14. | CCA Tax Shield At Project Outset | 2,182,426 | 2,058,650 | 1,934,247 | 1,817,374 | 1,707,573 | 14,253,178 | |
| 15. | ACCUMULATED PV OF CCA TAX SHIELD | 282,385 | 251,581 | 223,254 | 198,118 | 175,814 | 1,386,046 | |
| 105. | 343,491 | 105,595,072 | 105,818,326 | 106,016,444 | 106,192,258 | 107,578,304 | | |
| INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES) | | | | | | | | |
| 16. | Gas Distribution Revenue | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | |
| 17. | Transportation Services Charge | - | - | - | - | - | - | - |
| 18. | Transportation Savings | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | |
| 19. | Gas Costs | (14,979,357) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | |
| 20. | O&M Expenses | 59,377,006 | 61,420,606 | 61,420,606 | 61,420,606 | 61,420,606 | 61,420,606 | |
| 21. | Net Operating Cash (Before Taxes) | 7,682,814 | 7,506,006 | 7,089,273 | 6,695,677 | 6,323,933 | 5,972,829 | |
| 22. | PV of Net Operating Cash (Before Taxes) At Project Outset | 1,804,534,234 | 1,812,040,240 | 1,819,129,513 | 1,825,825,190 | 1,832,149,124 | 1,838,121,953 | |
| 23. | ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES) | | | | | | | |
| TAXES | | | | | | | | |
| 24. | Income Tax (Before Interest Tax Shield) | (14,947,886) | (15,489,438) | (15,489,435) | (15,489,433) | (15,489,431) | (15,489,429) | |
| 25. | Municipal Tax | (2,969,890) | (2,969,896) | (2,969,907) | (2,969,915) | (2,969,923) | (2,969,932) | |
| 26. | Capital Tax | - | - | - | - | - | - | |
| 27. | Total Taxes | (17,917,776) | (18,459,386) | (18,459,342) | (18,459,348) | (18,459,354) | (18,459,360) | |
| 28. | PV of Total Taxes At Project Outset | (2,318,388) | (2,255,853) | (2,130,609) | (2,012,319) | (1,900,986) | (1,795,075) | |
| 29. | ACCUMULATED PV OF TOTAL TAXES | (504,656,261) | (506,912,115) | (509,042,724) | (511,055,043) | (512,955,638) | (514,750,714) | |
| 30. | ACCUMULATED NPV AND PI | | | | | | | |
| 31. | Net Present Value | 583,891,301 | 589,393,034 | 594,549,952 | 598,456,429 | 604,055,580 | 609,619,381 | |
| | Profitability Index | 1.711 | 1.718 | 1.724 | 1.730 | 1.735 | 1.742 | |

Notes:

(1) September 12/2013 is project outset as time 0.
(2) Oct 1 2010 to Sep 12/2013 - Project planning and engineering.

(3) Sep 12/2013 to Dec 31/2013, mid-term discounting. Discount period equals 3.6/12*0.5 = 0.15
(4) Jan 1 to Dec 31 2014, mid-term discounting. Discount period equals 12/12*0.5+3.6/12 = 0.80
(5) Year 1 - capital spending Jan 1 to Dec 31 2015, mid-term discounting. Discount period equals 12/12*0.5+3.6/12 = 1.80
(6) 50% effectively considered for the first year of customer additions/revenue
(7) First year of customer additions/revenues Jan 1 to Dec 31 2015. Discount period equals 12/12*0.5+3.6/12 = 1.80
(8) Transportation savings and Transportation Services merge start Oct 15, 2015, mid-term discounting. Discount period equals 2.5/12*0.5+3.6/12 = 2.196

GTA Project
Economic Feasibility - 40 year Horizon
DCF Analysis

| Line No. | Description | Col. 1 | Col. 2 | Col. 3 | Col. 4 | Col. 5 | Col. 6 | Col. 7 | Col. 8 | Col. 9 | Col. 10 | Col. 11 | Col. 12 | Col. 13 | Col. 14 |
|---|--|-------------|-------------|-------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| | | 10/10/09/13 | 09/13-12/13 | 01/14-12/14 | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 | Year 8 | Year 9 | Year 10 | |
| 1. | Discount factors to project outset | 1.000 | 0.991 | 0.985 | 0.982 | 0.985 | 0.9805 | 0.9780 | 0.9718 | 0.9678 | 0.9640 | 0.9605 | 0.9571 | 0.9540 | |
| INCREMENTAL CAPITAL INVESTMENT | | | | | | | | | | | | | | | |
| 1. | Investment in Mains | | | | | | | | | | | | | | |
| 2. | Investment in Services | | | | | | | | | | | | | | |
| 3. | Investment in Stations | | | | | | | | | | | | | | |
| 4. | Investment in Land | | | | | | | | | | | | | | |
| 5. | Investment in Land Rights | | | | | | | | | | | | | | |
| 6. | Annual Capital Maintenance Costs | | | | | | | | | | | | | | |
| 7. | Contribution in Aid Of Construction | | | | | | | | | | | | | | |
| 8. | Net Investment Capital | | | | | | | | | | | | | | |
| 9. | Working Capital | | | | | | | | | | | | | | |
| 10. | Total Investment | | | | | | | | | | | | | | |
| 11. | PV Of Total Investment At Project Outset | | | | | | | | | | | | | | |
| 12. | ACCUMULATED PV OF TOTAL INVESTMENT | | | | | | | | | | | | | | |
| 13. | CCA TAX SHIELD | | | | | | | | | | | | | | |
| 14. | CCA Tax Shield At Project Outset | | | | | | | | | | | | | | |
| 15. | ACCUMULATED PV OF CCA TAX SHIELD | | | | | | | | | | | | | | |
| INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES) | | | | | | | | | | | | | | | |
| 16. | Gas Distribution Revenue | | | | | | | | | | | | | | |
| 17. | Transportation Services Charge | | | | | | | | | | | | | | |
| 18. | Transportation Savings | | | | | | | | | | | | | | |
| 19. | Gas Expenses | | | | | | | | | | | | | | |
| 20. | O&M Expenses | | | | | | | | | | | | | | |
| 21. | Net Operating Cash (Before Taxes) | | | | | | | | | | | | | | |
| 22. | PV of Net Operating Cash (Before Taxes) At Project Outset | | | | | | | | | | | | | | |
| 23. | ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES) | | | | | | | | | | | | | | |
| TAXES | | | | | | | | | | | | | | | |
| 24. | Income Tax (Before Interest Tax Shield) | | | | | | | | | | | | | | |
| 25. | Municipal Tax | | | | | | | | | | | | | | |
| 26. | Capital Tax | | | | | | | | | | | | | | |
| 27. | Total Taxes | | | | | | | | | | | | | | |
| 28. | PV of Total Taxes At Project Outset | | | | | | | | | | | | | | |
| 29. | ACCUMULATED PV OF TOTAL TAXES | | | | | | | | | | | | | | |
| 30. | ACCUMULATED NPV AND PI | | | | | | | | | | | | | | |
| 31. | Net Present Value | | | | | | | | | | | | | | |
| | Profitability Index | | | | | | | | | | | | | | |

Notes:

- (1) September 12/2013 is project outset as time 0.
- (2) Oct 1/2010 to Sep 12/2013 - Project planning and engineering.
- (3) Sep 12/2013 to Dec 31/2013 - mid-term discounting. Discount period equals 3.6/12*0.5 = 0.15
- (4) Jan 1 to Dec 31 2014, mid-term discounting. Discount period equals 12/12*0.5+3.6/12 = 0.80
- (5) Year 1 - capital spending Jan 1 to Dec 31 2015, mid-term discounting. Discount period equals 12/12*0.5+3.6/12 = 1.80
- (6) 50% effectively considered for the first year of customer additions revenue.
- (7) First year of customer additions revenues Jan 1 to Dec 31 2015. Discount period equals 12/12*0.5+3.6/12 = 1.80
- (8) Transportation savings and Transportation Services Charge start Oct 15, 2015, mid-term discounting. Discount period equals 2.5/12*0.5+3.6/12 = 2.196

GTA Project
Economic Feasibility - 40 year Horizon
DCF Analysis

| Line No. | Description | Col. 1 | Col. 15 | Col. 16 | Col. 17 | Col. 18 | Col. 19 | Col. 20 | Col. 21 | Col. 22 | Col. 23 | Col. 24 | Col. 25 | Col. 26 |
|----------|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | Year 11 | Year 12 | Year 13 | Year 14 | Year 15 | Year 16 | Year 17 | Year 18 | Year 19 | Year 20 | Year 21 | Year 22 | |
| | Discount factors to project outset | | 0.510 | 0.481 | 0.455 | 0.429 | 0.406 | 0.383 | 0.362 | 0.342 | 0.323 | 0.305 | 0.288 | 0.272 |
| | INCREMENTAL CAPITAL INVESTMENT | | | | | | | | | | | | | |
| 1. | Investment in Mains | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2. | Investment in Services | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3. | Investment in Stations | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4. | Investment in Land | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5. | Investment in Land Rights | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6. | Annual Capital Maintenance Costs | (2,786) | (2,786) | (2,786) | (1,024,586) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) |
| 7. | Contribution in Aid Of Construction | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8. | Net Investment Capital | (2,786) | (2,786) | (2,786) | (1,024,586) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) |
| 9. | Working Capital | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 10. | Total Investment | (2,786) | (2,786) | (2,786) | (1,024,586) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) |
| 11. | PV Of Total Investment At Project Outset | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) |
| 12. | ACCUMULATED PV OF TOTAL INVESTMENT | | | | | | | | | | | | | |
| | CCATX SHIELD | | | | | | | | | | | | | |
| 13. | CCA Tax Shield | 9,626,672 | 9,043,420 | 8,495,563 | 7,989,070 | 7,513,313 | 7,056,296 | 6,630,982 | 6,229,388 | 5,852,243 | 5,497,985 | 5,173,291 | 4,886,305 | |
| 14. | PV Of CCA Tax Shield At Project Outset | 4,906,266 | 4,353,118 | 3,862,360 | 3,430,438 | 3,047,036 | 2,703,578 | 2,389,450 | 2,128,482 | 1,888,598 | 1,675,761 | 1,489,558 | 1,323,651 | |
| 15. | ACCUMULATED PV OF CCATX SHIELD | 68,804,057 | 73,157,175 | 77,019,535 | 80,449,973 | 83,497,973 | 88,200,587 | 88,599,437 | 90,727,919 | 92,616,517 | 94,292,278 | 95,781,536 | 97,105,187 | |
| | INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES) | | | | | | | | | | | | | |
| 16. | Gas Distribution Revenue | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | |
| 17. | Transportation Services Charge | 10,237,680 | 10,031,051 | 9,834,957 | 10,249,931 | 9,414,241 | 9,189,95 | 8,962,336 | 8,750,582 | 8,495,877 | 8,258,092 | 8,063,321 | 7,804,942 | |
| 18. | Transportation Savings | 38,473,086 | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | |
| 19. | O&M Expenses | (55,727,578) | (12,935,577) | (12,935,577) | (12,935,577) | (14,979,587) | (12,935,577) | (12,935,577) | (12,935,577) | (12,935,577) | (12,935,577) | (12,935,577) | (12,935,577) | |
| 20. | Net Operating Cash (Before Taxes) | 110,131,371 | 71,451,657 | 71,240,278 | 69,626,937 | 70,834,847 | 70,382,642 | 70,151,188 | 69,916,483 | 68,040,527 | 66,678,698 | 64,225,086 | 62,821,715 | |
| 21. | PV of Net Operating Cash (Before Taxes) At Project Outset | 56,128,833 | 34,393,793 | 32,388,151 | 28,897,209 | 28,727,187 | 27,046,361 | 25,462,280 | 23,969,536 | 22,563,003 | 21,237,830 | 19,587,120 | 18,821,715 | |
| 22. | PV of Net Operating Cash (Before Taxes) At Project Outset | 560,496,552 | 594,890,345 | 627,278,496 | 657,175,705 | 685,902,892 | 712,949,253 | 738,411,533 | 762,381,069 | 784,944,072 | 806,181,902 | 825,769,021 | 844,590,736 | |
| 23. | ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES) | | | | | | | | | | | | | |
| | TAXES | | | | | | | | | | | | | |
| 24. | Income Tax (Before Interest Tax Shield) | (28,401,095) | (18,150,969) | (18,094,951) | (17,666,601) | (17,986,695) | (17,927,267) | (17,866,656) | (17,805,521) | (17,743,320) | (17,680,304) | (17,245,374) | (17,559,280) | |
| 25. | Municipal Tax | (2,957,428) | (2,957,436) | (2,957,445) | (2,957,445) | (2,960,518) | (2,960,527) | (2,960,543) | (2,960,552) | (2,960,560) | (2,963,642) | (2,963,651) | | |
| 26. | Capital Tax | - | - | - | - | - | - | - | - | - | - | - | - | |
| 27. | Total Taxes | (31,358,523) | (21,108,405) | (21,052,395) | (20,627,119) | (20,347,222) | (20,887,802) | (20,827,398) | (20,766,073) | (20,703,880) | (20,640,873) | (20,209,017) | (20,522,931) | |
| 28. | PV of Total Taxes At Project Outset | (15,981,979) | (10,160,689) | (9,571,105) | (8,857,108) | (8,495,180) | (8,000,768) | (7,681,424) | (7,354,714) | (6,881,268) | (6,281,288) | (5,817,657) | (5,580,010) | |
| 29. | ACCUMULATED PV OF TOTAL TAXES | (180,902,103) | (171,062,792) | (180,633,897) | (188,491,005) | (197,986,184) | (205,986,952) | (213,521,667) | (220,617,100) | (227,298,524) | (233,589,792) | (239,407,448) | | |
| | ACCUMULATED NPV AND PI | | | | | | | | | | | | | |
| 30. | Net Present Value | (352,931,656) | (324,345,435) | (297,666,029) | (273,195,490) | (249,916,446) | (228,167,275) | (207,840,856) | (188,838,275) | (171,068,998) | (154,445,775) | (139,187,054) | (124,621,699) | |
| 31. | Profitability Index | 0.570 | 0.605 | 0.638 | 0.667 | 0.696 | 0.722 | 0.747 | 0.770 | 0.792 | 0.812 | 0.831 | 0.848 | |

Notes:

(1) September 12,2013 is project outset as time 0.
 (2) Oct 1 2010 to Sep 12 2013 - Project planning and engineering.

(3) Sep 12 2013 to Dec 31 2013 - mid-term discounting. Discount period equals 3.6/12=0.5 = 0.15
 (4) Jan 1 to Dec 31 2014, mid-term discounting. Discount period equals 12/12=1=1.0 = 1.0
 (5) Year 1 - capital spending Jan 1 to Dec 31 2015, mid-term discounting. Discount period equals 12/12=0.5+1=3.6/12 = 1.80
 (6) 50% effectively considered for the first year of customer additions revenue

(7) First year of customer additions revenues Jan 1 to Dec 31 2015. Discount period equals 12/12=1=1.0 = 1.00

(8) Transportation savings and Transportation Services Charge start Oct 15, 2015, mid-term discounting. Discount period equals 2.5/12=0.5+9.5/12=1+3.6/12 = 2.196

GTA Project
Economic Feasibility - 40 year Horizon
DCF Analysis

| Line No. | Description | Col. 1 | Col. 27 | Col. 28 | Col. 29 | Col. 30 | Col. 31 | Col. 32 | Col. 33 | Col. 34 | Col. 35 | Col. 36 | Col. 37 | Col. 38 | |
|----------|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|
| | | Year 23 | Year 24 | Year 25 | Year 26 | Year 27 | Year 28 | Year 29 | Year 30 | Year 31 | Year 32 | Year 33 | Year 34 | | |
| | Discount factors to project outset | | 0.257 | 0.243 | 0.229 | 0.216 | 0.204 | 0.193 | 0.182 | 0.172 | 0.163 | 0.154 | 0.145 | 0.137 | |
| | INCREMENTAL CAPITAL INVESTMENT | | | | | | | | | | | | | | |
| 1. | Investment in Mains | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 2. | Investment in Services | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 3. | Investment in Stations | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 4. | Investment in Land | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 5. | Investment in Land Rights | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 6. | Annual Capital Maintenance Costs | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | |
| 7. | Contribution in Aid Of Construction | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 8. | Net Investment Capital | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | |
| 9. | Working Capital | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 10. | Total Investment | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | |
| 11. | PV On Total Investment At Project Outset | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | |
| 12. | ACCUMULATED PV OF TOTAL INVESTMENT | | | | | | | | | | | | | | |
| | CCA TAX SHIELD | | | | | | | | | | | | | | |
| 13. | CCA Tax Shield | 4,573,687 | 4,296,926 | 4,036,938 | 3,792,704 | 3,563,268 | 3,355,866 | 3,161,014 | 2,969,855 | 2,790,273 | 2,621,567 | 2,463,077 | 2,314,183 | | |
| 14. | PV On CCA Tax Shield At Project Outset | 1,174,505 | 1,042,171 | 924,754 | 820,570 | 728,129 | 647,673 | 576,198 | 453,709 | 402,610 | 357,268 | 307,035 | 271,055 | | |
| 15. | ACCUMULATED PV OF CCA TAX SHIELD | 98,279,692 | 99,321,863 | 100,246,617 | 101,067,187 | 101,795,316 | 102,442,989 | 103,019,187 | 103,530,484 | 103,984,193 | 104,386,803 | 104,744,071 | 105,081,106 | | |
| | INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES) | | | | | | | | | | | | | | |
| 16. | Gas Distribution Revenue | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | |
| 17. | Gas Distribution Services Charge | 7,558,277 | 7,399,665 | 7,058,790 | 6,805,792 | 6,550,792 | 6,308,792 | 6,068,792 | 5,840,792 | 5,619,792 | 5,398,792 | 5,180,792 | 4,969,792 | 4,750,792 | |
| 18. | Transportation Savings | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | |
| 19. | O&M Expenses | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | |
| 20. | Net Operating Cash (Before Taxes) | 68,978,883 | 68,978,883 | 68,978,883 | 68,978,883 | 68,978,883 | 68,978,883 | 68,978,883 | 68,978,883 | 68,978,883 | 68,978,883 | 68,978,883 | 68,978,883 | 68,978,883 | |
| 21. | PV of Net Operating Cash (Before Taxes) At Project Outset | 17,713,511 | 16,689,760 | 15,686,787 | 14,761,120 | 13,889,478 | 12,799,046 | 11,370,885 | 10,175,719 | 9,611,710 | 9,078,762 | 8,575,186 | 8,078,762 | 7,575,186 | |
| 22. | ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES) | 882,304,247 | 878,974,007 | 884,660,794 | 898,421,915 | 923,311,393 | 936,110,438 | 948,412,572 | 958,783,466 | 969,959,185 | 978,573,466 | 988,649,657 | 997,224,843 | | |
| | TAXES | | | | | | | | | | | | | | |
| 24. | Income Tax (Before Interest Tax Shield) | (17,428,150) | (17,294,166) | (17,294,166) | (17,294,166) | (17,294,166) | (17,294,166) | (17,294,166) | (17,294,166) | (17,294,166) | (17,294,166) | (17,294,166) | (17,294,166) | (17,294,166) | |
| 25. | Municipal Tax | (2,963,659) | (2,963,667) | (2,963,676) | (2,963,684) | (2,963,692) | (2,963,699) | (2,963,706) | (2,963,714) | (2,963,721) | (2,963,729) | (2,963,736) | (2,963,743) | (2,963,750) | |
| 26. | Capital Tax | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 27. | Total Taxes | (20,457,693) | (20,391,817) | (20,325,342) | (20,258,303) | (20,190,363) | (20,130,363) | (19,754,588) | (20,085,254) | (19,683,181) | (18,767,154) | (18,765,881) | (18,765,881) | (18,765,881) | (18,765,881) |
| 28. | PV of Total Taxes At Project Outset | (5,253,457) | (4,945,808) | (4,655,989) | (4,382,985) | (4,125,935) | (3,812,583) | (3,657,547) | (3,388,702) | (3,051,138) | (2,722,167) | (2,571,160) | (2,571,160) | (2,571,160) | (2,571,160) |
| 29. | ACCUMULATED PV OF TOTAL TAXES | (250,240,916) | (255,186,724) | (259,842,713) | (264,225,687) | (268,351,532) | (272,164,125) | (275,821,672) | (282,210,374) | (285,143,503) | (287,365,871) | (290,436,831) | | | |
| | ACCUMULATED NPV AND PI | | | | | | | | | | | | | | |
| 30. | Net Present Value | (110,987,140) | (98,221,016) | (86,265,464) | (75,066,758) | (64,574,986) | (54,940,861) | (45,720,077) | (37,226,586) | (29,648,296) | (22,515,967) | (15,802,104) | (9,481,044) | | |
| 31. | Profitability Index | 0.865 | 0.860 | 0.855 | 0.909 | 0.921 | 0.933 | 0.944 | 0.955 | 0.964 | 0.973 | 0.981 | 0.988 | | |

Notes:

(1) September 12,2013 is project outset as time 0.
(2) Oct 1,2010 to Sep 12,2013 - Project planning and engineering.

(3) Sep 12,2013 to Dec 31,2013 - mid-term discounting. Discount period equals 3.6/12=0.5 = 0.15

(4) Jan 1 to Dec 31 2014, mid-term discounting. Discount period equals 12/12=1=1.0 = 1.00

(5) Year 1 - capital spending Jan 1 to Dec 31 2015, mid-term discounting. Discount period equals 12/12=0.5+1=3.6/12 = 1.80

(6) 50% effectively considered for the first year of customer additions revenue.

(7) First year of customer additions revenues Jan 1 to Dec 31 2015.

(8) Transportation savings and Transportation Services merge start Oct 15, 2015, mid-term discounting. Discount period equals 2.5/12=0.5+9.5/12+1=3.6/12 = 2.196

GTA Project
Economic Feasibility - 40 year Horizon
DCF Analysis

| Line No. | Description | Col. 1 | Col. 38 | Col. 40 | Col. 41 | Col. 42 | Col. 43 | Col. 44 |
|---|--|---------------|---------------|---------------|---------------|---------------|----------------------|---------------|
| | | Year 35 | Year 36 | Year 37 | Year 38 | Year 39 | Year 40 | |
| Discount factors to project outset | | | | | | | | |
| INCREMENTAL CAPITAL INVESTMENT | | | | | | | | |
| 1. | Investment in Mains | - | - | - | - | - | - | - |
| 2. | Investment in Services | - | - | - | - | - | - | - |
| 3. | Investment in Stations | - | - | - | - | - | - | - |
| 4. | Investment in Land | - | - | - | - | - | - | - |
| 5. | Investment in Land Rights | - | - | - | - | - | - | - |
| 6. | Annual Capital Maintenance Costs | (1,024,386) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) |
| 7. | Contribution in Aid Of Construction | - | - | - | - | - | - | - |
| 8. | Net Investment Capital | (1,024,386) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) |
| 9. | Working Capital | - | - | - | - | - | - | - |
| 10. | Total Investment | (1,024,386) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) | (2,786) |
| 11. | PV Of Total Investment At Project Outset | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) | (821,330,163) |
| 12. | ACCUMULATED PV OF TOTAL INVESTMENT | | | | | | | |
| CCA TAX SHIELD | | | | | | | | |
| 13. | CCA Tax Shield At Project Outset | 2,182,426 | 2,058,650 | 1,934,247 | 1,817,374 | 1,707,573 | 14,253,178 | |
| 14. | PV Of CCA Tax Shield At Project Outset | 282,385 | 251,581 | 223,254 | 198,118 | 175,814 | 1,386,046 | |
| 15. | ACCUMULATED PV OF CCA TAX SHIELD | 105,343,491 | 105,595,072 | 105,818,326 | 106,016,444 | 106,192,258 | 107,578,304 | |
| INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES) | | | | | | | | |
| 16. | Gas Distribution Revenue | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | 130,083,942 | |
| 17. | Transportation Services Charge | 1,821,979 | 1,201,817 | 1,196,125 | 1,195,596 | 1,193,988 | 1,191,556 | |
| 18. | Transportation Savings | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | (55,727,578) | |
| 19. | O&M Costs | (14,979,357) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | |
| 20. | Net Expenses | 61,198,985 | 62,622,423 | 62,616,731 | 62,616,142 | 62,614,894 | 62,612,131 | |
| 21. | Net Operating Cash (Before Taxes) | 7,918,561 | 7,652,876 | 7,227,332 | 6,826,007 | 6,446,968 | 6,088,699 | |
| 22. | PV of Net Operating Cash (Before Taxes) At Project Outset | 1,005,143,404 | 1,012,796,290 | 1,020,023,612 | 1,026,849,618 | 1,033,296,486 | 1,039,395,185 | |
| 23. | ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES) | | | | | | | |
| TAXES | | | | | | | | |
| 24. | Income Tax (Before Interest Tax Shield) | (15,430,710) | (15,807,919) | (15,806,408) | (15,806,250) | (15,805,638) | (15,805,183) | |
| 25. | Municipal Tax | (2,969,890) | (2,969,898) | (2,969,907) | (2,969,915) | (2,969,923) | (2,969,932) | |
| 26. | Capital Tax | - | - | - | - | - | - | |
| 27. | Total Taxes | (18,400,600) | (18,777,817) | (18,776,315) | (18,776,165) | (18,775,761) | (18,775,115) | |
| 28. | PV of Total Taxes At Project Outset | (282,817,691) | (285,112,465) | (287,279,860) | (288,326,516) | (301,259,389) | (303,085,470) | |
| 29. | ACCUMULATED PV OF TOTAL TAXES | | | | | | | |
| ACCUMULATED NPV AND PI | | | | | | | | |
| 30. | Net Present Value | (3,660,959) | 1,948,724 | 7,232,115 | 12,209,384 | 16,898,692 | 22,547,856 | |
| 31. | Profitability Index | 0.996 | 1.002 | 1.009 | 1.015 | 1.021 | 1.0275 | |

Notes:

(1) September 12/2013 is project outset as time 0.
(2) Oct 1 2010 to Sep 12/2013 - Project planning and engineering.

(3) Sep 12/2013 to Dec 31/2013, mid-term discounting. Discount period equals 3.6/12*0.5 = 0.15
(4) Jan 1 to Dec 31 2014, mid-term discounting. Discount period equals 12/12*0.5+3.6/12 = 0.80
(5) Year 1 - capital spending Jan 1 to Dec 31 2015, mid-term discounting. Discount period equals 12/12*0.5+3.6/12 = 1.80
(6) 50% effectively considered for the first year of customer additions/revenue
(7) First year of customer additions/revenues Jan 1 to Dec 31 2015. Discount period equals 12/12*0.5+3.6/12 = 1.80
(8) Transportation savings and Transportation Services merge start Oct 15, 2015, mid-term discounting. Discount period equals 2.5/12*0.5+3.6/12 = 2.196

#REF!
Economic Feasibility - 40 year Horizon
DCF Analysis

| Line No. | Description | Col. 1 | Col. 2 | Col. 3 | Col. 4 | Col. 5 | Col. 6 | Col. 7 | Col. 8 | Col. 9 | Col. 10 | Col. 11 | Col. 12 | Col. 13 | Col. 14 |
|---------------------------------------|--|-------------|-------------|-------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| | | 10/10/09/13 | 09/13-12/13 | 01/14-12/14 | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 | Year 7 | Year 8 | Year 9 | Year 10 | |
| 1. | Discount factors to project outset | | 1.000 | 0.991 | 0.985 | 0.982 | 0.985 | 0.9805 | 0.9780 | 0.9718 | 0.9678 | 0.9640 | 0.9605 | 0.9571 | 0.9540 |
| INCREMENTAL CAPITAL INVESTMENT | | | | | | | | | | | | | | | |
| 1. | Investment in Mans | | | | | | | | | | | | | | |
| 2. | Investment in Services | | | | | | | | | | | | | | |
| 3. | Investment in Stations | | | | | | | | | | | | | | |
| 4. | Investment in Land | | | | | | | | | | | | | | |
| 5. | Investment in Land Rights | | | | | | | | | | | | | | |
| 6. | Annual Capital Maintenance Costs | | | | | | | | | | | | | | |
| 7. | Contribution in Aid Of Construction | | | | | | | | | | | | | | |
| 8. | Net Investment Capital | | | | | | | | | | | | | | |
| 9. | Working Capital | | | | | | | | | | | | | | |
| 10. | Total Investment | | | | | | | | | | | | | | |
| 11. | PV Of Total Investment At Project Outset | | | | | | | | | | | | | | |
| 12. | ACCUMULATED PV OF TOTAL INVESTMENT | | | | | | | | | | | | | | |
| 13. | CCATAX SHIELD | | | | | | | | | | | | | | |
| 14. | CCA Tax Shield At Project Outset | | | | | | | | | | | | | | |
| 15. | ACCUMULATED PV OF CCATAX SHIELD | | | | | | | | | | | | | | |
| 16. | INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES) | | | | | | | | | | | | | | |
| 17. | Gas Distribution Revenue | | | | | | | | | | | | | | |
| 18. | Transportation Services Charge | | | | | | | | | | | | | | |
| 19. | Transportation Savings | | | | | | | | | | | | | | |
| 20. | O&M Expenses | | | | | | | | | | | | | | |
| 21. | Net Operating Cash (Before Taxes) | | | | | | | | | | | | | | |
| 22. | PV of Net Operating Cashs (Before Taxes) At Project Outset | | | | | | | | | | | | | | |
| 23. | ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES) | | | | | | | | | | | | | | |
| 24. | TAXES | | | | | | | | | | | | | | |
| 25. | Income Tax (Before Interest Tax Shield) | | | | | | | | | | | | | | |
| 26. | Municipal Tax | | | | | | | | | | | | | | |
| 27. | Capital Tax | | | | | | | | | | | | | | |
| 28. | Total Taxes | | | | | | | | | | | | | | |
| 29. | ACCUMULATED PV OF TOTAL TAXES | | | | | | | | | | | | | | |
| 30. | ACCUMULATED NPV AND PI | | | | | | | | | | | | | | |
| 31. | Net Present Value | | | | | | | | | | | | | | |
| | Profitability Index | | | | | | | | | | | | | | |

Notes:

- (1) September 12/2013 is project outset as time 0.
- (2) Oct 1 2010 to Sep 12/2013 - Project planning and engineering.
- (3) Sep 12/2013 to Dec 31/2013 - mid-term discounting. Discount period equals 3.6/12*0.5 = 0.15
- (4) Jan 1 to Dec 31 2014, mid term discounting. Discount period equals 12/12*0.5+3.6/12 = 0.80
- (5) Year 1 - capital spending Jan 1 to Dec 31 2015, mid term discounting. Discount period equals 12/12*0.5+3.6/12 = 0.80
- (6) 50% effectively considered for the first year of customer additions revenue
- (7) First year of customer additions revenues Jan 1 to Dec 31 2015. Discount period equals 12/12*0.5+3.6/12 = 0.80
- (8) Transportation savings and Transportation Services Charge start Oct 15, 2015, mid-term discounting. Discount period equals 2.5/12*0.5+3.6/12 = 0.196

#REF!
Economic Feasibility - 40 year Horizon
DCF Analysis

| Line No. | Description | Col. 1 | Col. 15 | Col. 16 | Col. 17 | Col. 18 | Col. 19 | Col. 20 | Col. 21 | Col. 22 | Col. 23 | Col. 24 | Col. 25 | Col. 26 |
|---------------------------------------|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | Year 11 | Year 12 | Year 13 | Year 14 | Year 15 | Year 16 | Year 17 | Year 18 | Year 19 | Year 20 | Year 21 | Year 22 | |
| | Discount factors to project outset | | 0.510 | 0.481 | 0.455 | 0.429 | 0.406 | 0.383 | 0.362 | 0.342 | 0.323 | 0.305 | 0.288 | 0.272 |
| INCREMENTAL CAPITAL INVESTMENT | | | | | | | | | | | | | | |
| 1. | Investment in Mains | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 2. | Investment in Services | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 3. | Investment in Stations | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 4. | Investment in Land | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 5. | Investment in Land Rights | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 6. | Annual Capital Maintenance Costs | (3,065) | (3,065) | (3,065) | (1,127,045) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) |
| 7. | Contribution in Aid Of Construction | - | - | - | - | - | - | - | - | - | - | - | - | - |
| 8. | Net Investment Capital | (3,065) | (3,065) | (3,065) | (1,127,045) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) |
| 9. | Working Capital | 2,700 | 2,686 | 2,673 | 2,660 | 2,646 | 2,633 | 2,620 | 2,607 | 2,594 | 2,581 | 2,568 | 2,555 | (510) |
| 10. | Total Investment | (365) | (378) | (392) | (1,124,385) | (418) | (422) | (445) | (448) | (471) | (484) | (484) | (484) | (510) |
| 11. | PV On Total Investment At Project Outset | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) |
| 12. | ACCUMULATED PV OF TOTAL INVESTMENT | | | | | | | | | | | | | |
| 13. | CCA TAX SHIELD | | | | | | | | | | | | | |
| 14. | CCA Tax Shield At Project Outset | 10,569,339 | 9,947,762 | 9,345,119 | 8,787,978 | 8,284,644 | 7,764,128 | 7,293,970 | 6,852,327 | 6,437,467 | 6,047,782 | 5,690,020 | 5,355,135 | |
| 15. | ACCUMULATED PV OF CCA TAX SHIELD | 5,396,893 | 4,788,430 | 4,248,596 | 3,773,482 | 3,351,740 | 2,973,936 | 2,638,735 | 2,341,330 | 1,843,337 | 1,466,016 | 1,638,183 | 1,466,016 | 106,815,705 |
| 16. | INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES) | | | | | | | | | | | | | |
| 17. | Gas Distribution Revenue | 123,724,155 | 123,105,534 | 122,490,006 | 121,877,556 | 121,268,169 | 120,661,828 | 120,058,519 | 119,458,226 | 118,860,835 | 117,675,297 | 117,086,921 | 116,531,866 | |
| 18. | Transportation Services Charge | 11,250,386 | 11,023,094 | 10,790,577 | 11,200,983 | 10,344,904 | 10,097,932 | 9,847,778 | 9,532,580 | 9,234,403 | 9,027,839 | 9,455,931 | 8,573,866 | |
| 19. | Transportation Savings | 14,498,591 | (52,738,049) | (52,474,359) | (52,211,967) | (51,159,327) | (51,691,173) | (51,432,717) | (51,175,533) | (50,919,675) | (50,411,752) | (50,169,693) | (50,169,693) | |
| 20. | O&M Expenses | (12,935,757) | (12,935,757) | (12,935,757) | (14,979,357) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) |
| 21. | Net Operating Cash (Before Taxes) | 214,021,110 | 68,454,822 | 67,870,468 | 65,887,195 | 66,726,988 | 66,132,830 | 65,637,222 | 64,939,505 | 63,738,635 | 61,740,119 | 62,565,336 | 62,565,336 | |
| 22. | PV of Net Operating Cashs (Before Taxes) At Project Outset | 109,076,597 | 32,951,243 | 30,856,126 | 28,291,395 | 27,080,873 | 25,331,216 | 23,709,356 | 22,188,784 | 20,763,365 | 19,427,319 | 17,773,394 | 17,010,986 | |
| 23. | ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES) | 1,281,115,003 | 1,314,066,246 | 1,344,922,372 | 1,373,213,767 | 1,400,274,840 | 1,425,605,887 | 1,449,315,213 | 1,471,503,987 | 1,492,267,362 | 1,511,694,681 | 1,529,468,075 | 1,546,479,061 | |
| 24. | TAXES | | | | | | | | | | | | | |
| 25. | Income Tax (Before Interest Tax Shield) | (55,853,504) | (17,278,435) | (17,123,579) | (16,597,115) | (16,819,420) | (16,662,204) | (16,504,365) | (16,345,968) | (16,187,072) | (16,027,733) | (15,497,230) | (15,715,910) | |
| 26. | Municipal Tax | (3,253,171) | (3,253,180) | (3,253,189) | (3,256,570) | (3,256,578) | (3,256,599) | (3,256,607) | (3,256,616) | (3,256,625) | (3,260,006) | (3,260,016) | (3,260,016) | |
| 27. | Capital Tax | - | - | - | - | - | - | - | - | - | - | - | - | |
| 28. | Total Taxes | (59,106,674) | (20,531,615) | (20,316,768) | (19,853,686) | (20,075,998) | (19,918,793) | (19,760,963) | (19,443,888) | (19,284,358) | (18,757,236) | (18,975,926) | (18,975,926) | |
| 29. | ACCUMULATED PV OF TOTAL TAXES | (353,123,921) | (362,986,298) | (9,883,047) | (9,263,943) | (8,525,002) | (8,141,854) | (7,629,603) | (7,148,910) | (6,687,884) | (6,274,743) | (5,389,726) | (5,159,394) | (433,105,164) |
| 30. | ACCUMULATED NPV AND PI | | | | | | | | | | | | | |
| 31. | Net Present Value | 100,260,636 | 128,117,262 | 153,958,041 | 177,497,916 | 199,768,675 | 220,444,224 | 239,643,406 | 257,475,635 | 274,041,715 | 289,434,564 | 303,446,415 | 316,754,023 | |
| | Profitability Index | 1.111 | 1.142 | 1.170 | 1.196 | 1.221 | 1.244 | 1.265 | 1.285 | 1.303 | 1.320 | 1.336 | 1.351 | |

Notes:

(1) September 12,2013 is project outset as time 0.

(2) Oct 1 2010 to Sep 12 2013 - Project planning and engineering.

(3) Sep 12 2013 to Dec 31 2013 - mid-term discounting. Discount period equals 3.6/12=0.5 = 0.15

(4) Jan 1 to Dec 31 2014, mid-term discounting. Discount period equals 12/12=1=1.00

(5) Year 1 - capital spending Jan 1 to Dec 31 2015, mid-term discounting. Discount period equals 12/12=0.5+1=3.6/12 = 1.80

(6) 50% effectively considered for the first year of customer additions revenue.

(7) First year of customer additions revenues Jan 1 to Dec 31 2015. Discount period equals 12/12=1=1.00

(8) Transportation savings and Transportation Services merge start Oct 15, 2015, mid-term discounting. Discount period equals 2.5/12=0.5+9.5/12=1+3.6/12 = 2.196

#REF!
Economic Feasibility - 40 year Horizon
DCF Analysis

| Line No. | Description | Col. 1 | Col. 27 | Col. 28 | Col. 29 | Col. 30 | Col. 31 | Col. 32 | Col. 33 | Col. 34 | Col. 35 | Col. 36 | Col. 37 | Col. 38 | |
|--|--|---------------|---|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--|
| | | Year 23 | Year 24 | Year 25 | Year 26 | Year 27 | Year 28 | Year 29 | Year 30 | Year 31 | Year 32 | Year 33 | Year 34 | | |
| INCREMENTAL CAPITAL INVESTMENT | | | | | | | | | | | | | | | |
| 1. | Investment in Mains | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 2. | Investment in Services | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 3. | Investment in Stations | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 4. | Investment in Land | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 5. | Investment in Land Rights | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| 6. | Annual Capital Maintenance Costs | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (1,127,045) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | |
| 7. | Contribution in Aid Of Construction | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (1,127,045) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | |
| 8. | Net Investment Capital | 2,542 | 2,530 | 2,517 | 2,505 | 2,505 | 2,505 | (1,127,045) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | (3,065) | |
| 9. | Working Capital | (522) | (525) | (548) | (548) | (548) | (548) | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) | |
| 10. | Total Investment | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) | |
| 11. | PV On Total Investment At Project Outset | 12. | ACCUMULATED PV OF TOTAL INVESTMENT | | | | | | | | | | | | |
| 13. | CCA TAX SHIELD | 5,031,056 | 4,726,619 | 4,440,631 | 4,171,974 | 3,919,395 | 3,691,442 | 3,477,115 | 3,266,840 | 3,069,301 | 2,883,724 | 2,709,384 | 2,545,601 | | |
| 14. | PV On CCA Tax Shield At Project Outset | 1,281,956 | 1,146,389 | 1,017,229 | 902,627 | 800,942 | 712,440 | 652,427 | 582,427 | 499,080 | 442,871 | 392,985 | 348,738 | | |
| 15. | ACCUMULATED PV OF CCA TAX SHIELD | 108,107,661 | 109,254,049 | 110,271,279 | 111,173,906 | 111,974,848 | 112,687,288 | 113,321,066 | 113,883,532 | 114,382,612 | 114,825,483 | 115,218,479 | 115,276,217 | | |
| INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES) | | | | | | | | | | | | | | | |
| 16. | Gas Distribution Revenue | 116,501,486 | 115,918,979 | 115,339,384 | 115,339,384 | 115,339,384 | 115,339,384 | 115,339,384 | 115,339,384 | 115,339,384 | 115,339,384 | 115,339,384 | 115,339,384 | | |
| 17. | Gas Distribution Services Charge | 8,303,046 | 8,029,569 | 7,753,907 | 7,475,309 | 7,194,817 | 7,560,094 | 6,864,445 | 5,078,556 | 1,270,846 | | | | | |
| 18. | Transportation Savings | (49,908,694) | (49,659,350) | (49,411,053) | (49,411,053) | (49,411,053) | (49,411,053) | (49,411,053) | (49,411,053) | (49,411,053) | (49,411,053) | (49,411,053) | (49,411,053) | | |
| 19. | O&M Expenses | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | | |
| 20. | Net Operating Cash (Before Taxes) | 61,959,877 | 61,135,441 | 60,746,180 | 60,467,882 | 60,187,591 | 59,657,118 | 58,509,667 | 58,071,129 | 54,283,419 | 54,283,419 | 54,276,674 | 54,276,499 | | |
| 21. | PV of Net Operating Cash (Before Taxes) At Project Outset | 15,911,057 | 14,880,592 | 13,915,316 | 13,082,527 | 12,298,369 | 11,292,124 | 10,874,456 | 9,987,659 | 8,822,339 | 8,333,564 | 7,871,648 | 7,435,138 | | |
| 22. | PV of Net Operating Cash (Before Taxes) At Project Outset | 1,562,390,118 | 1,577,227,710 | 1,581,186,026 | 1,604,268,553 | 1,616,567,422 | 1,627,859,546 | 1,638,734,002 | 1,648,731,661 | 1,657,554,000 | 1,665,887,564 | 1,673,752,12 | 1,681,194,350 | | |
| 23. | ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES) | | | | | | | | | | | | | | |
| TAXES | | | | | | | | | | | | | | | |
| 24. | Income Tax (Before Interest Tax Shield) | (15,555,461) | (15,394,753) | (15,233,826) | (15,160,075) | (15,085,742) | (14,940,090) | (14,944,322) | (14,640,090) | (13,513,190) | (13,513,374) | (13,517,385) | | | |
| 25. | Municipal Tax | (3,260,025) | (3,260,034) | (3,260,043) | (3,260,052) | (3,260,062) | (3,263,443) | (3,263,452) | (3,263,452) | (3,263,470) | (3,263,480) | (3,263,480) | | | |
| 26. | Capital Tax | - | - | - | - | - | - | - | - | | | | | | |
| 27. | Total Taxes | (18,815,486) | (18,654,787) | (18,493,870) | (18,420,127) | (18,345,804) | (18,207,773) | (17,787,483) | (16,778,460) | (16,778,463) | (16,778,463) | (16,780,883) | | | |
| 28. | PV of Total Taxes At Project Outset | (4,831,744) | (4,524,510) | (4,236,448) | (4,236,448) | (3,985,886) | (3,748,836) | (3,318,961) | (3,062,336) | (2,727,950) | (2,297,950) | (2,298,921) | (2,298,921) | | |
| 29. | ACCUMULATED PV OF TOTAL TAXES | (437,936,909) | (442,461,419) | (446,697,867) | (450,683,153) | (454,431,989) | (457,887,332) | (461,206,294) | (464,288,628) | (468,595,578) | (472,007,261) | (474,306,182) | | | |
| 30. | ACCUMULATED NPV AND PI | 329,125,292 | 340,627,763 | 351,323,659 | 361,323,727 | 370,674,703 | 379,223,923 | 387,413,236 | 394,910,986 | 401,504,456 | 407,704,120 | 413,534,851 | 419,019,806 | | |
| 31. | Net Present Value | 1,364 | 1,377 | 1,389 | 1,400 | 1,410 | 1,420 | 1,429 | 1,437 | 1,451 | 1,464 | | | | |
| Notes: | | | | | | | | | | | | | | | |
| (1) September 12/2013 is project outset as time 0. | | | | | | | | | | | | | | | |
| (2) Oct 1 2010 to Sep 12/2013 - Project planning and engineering. | | | | | | | | | | | | | | | |
| (3) Sep 12/2013 to Dec 31/2013 - mid-term discounting. Discount period equals 3.6/12=0.5 = 0.15 | | | | | | | | | | | | | | | |
| (4) Jan 1 to Dec 31 2014, mid-term discounting. Discount period equals 12/12=0.5+3.6/12 = 0.80 | | | | | | | | | | | | | | | |
| (5) Year 1 - capital spending Jan 1 to Dec 31 2015, mid-term discounting. Discount period equals 12/12=0.5+1+3.6/12 = 1.80 | | | | | | | | | | | | | | | |
| (6) 50% effectively considered for the first year of customer additions/revenue. | | | | | | | | | | | | | | | |
| (7) First year of customer additions/revenues Jan 1 to Dec 31 2015. | | | | | | | | | | | | | | | |
| (8) Transportation savings and Transportation Services merge start Oct 15, 2015, mid-term discounting. Discount period equals 2.5/12=0.5+9.5/12=1+3.6/12 = 2.196 | | | | | | | | | | | | | | | |

Filed: 2013-06-07
EB-2012-0451/EB-2012-0433/EB-2013-0074
Exhibit I.A2.EGD.CCC.12
Attachment 6
Page 3 of 4

#REF!
Economic Feasibility - 40 year Horizon
DCF Analysis

| Line No. | Description | Col. 1 | Col. 38 | Col. 39 | Col. 40 | Col. 41 | Col. 42 | Col. 43 | Col. 44 |
|---|--|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | | Year 35 | Year 36 | Year 37 | Year 38 | Year 39 | Year 40 | |
| | Discount factors to project outset | | 0.129 | 0.122 | 0.115 | 0.109 | 0.103 | 0.097 | |
| INCREMENTAL CAPITAL INVESTMENT | | | | | | | | | |
| 1. | Investment in Mains | - | - | - | - | - | - | - | - |
| 2. | Investment in Services | - | - | - | - | - | - | - | - |
| 3. | Investment in Stations | - | - | - | - | - | - | - | - |
| 4. | Investment in Land | - | - | - | - | - | - | - | - |
| 5. | Investment in Land Rights | - | - | - | - | - | - | - | - |
| 6. | Annual Capital Maintenance Costs | (1,127,045) | (3,085) | (3,085) | (3,085) | (3,085) | (3,085) | (3,085) | (3,085) |
| 7. | Contribution in Aid Of Construction | (1,127,045) | (3,085) | (3,085) | (3,085) | (3,085) | (3,085) | (3,085) | (3,085) |
| 8. | Net Investment Capital | - | - | - | - | - | - | - | - |
| 9. | Working Capital | - | - | - | - | - | - | - | - |
| 10. | Total Investment | (1,127,045) | (3,085) | (3,085) | (3,085) | (3,085) | (3,085) | (3,085) | (3,085) |
| 11. | PV On Total Investment At Project Outset | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) | (903,435,579) |
| 12. | ACCUMULATED PV OF TOTAL INVESTMENT | | | | | | | | |
| CCA TAX SHIELD | | | | | | | | | |
| 13. | CCA Tax Shield | 2,400,669 | 2,264,515 | 2,127,672 | 1,999,111 | 1,878,330 | 1,757,496 | 1,636,651 | 1,524,631 |
| 14. | PV On CCA Tax Shield At Project Outset | 310,623 | 276,739 | 245,580 | 217,930 | 193,995 | 174,060 | 154,126 | 135,194 |
| 15. | ACCUMULATED PV OF CCA TAX SHIELD | 115,877,840 | 116,154,579 | 116,400,159 | 116,618,089 | 116,811,484 | 117,015,189 | 118,336,134 | |
| INCREMENTAL OPERATING CASHFLOWS (BEFORE TAXES) | | | | | | | | | |
| 16. | Gas Distribution Revenue | 115,339,384 | 115,339,384 | 115,339,384 | 115,339,384 | 115,339,384 | 115,339,384 | 115,339,384 | 115,339,384 |
| 17. | Transportation Services Charge | 1,930,235 | 1,310,937 | 1,304,675 | 1,304,675 | 1,302,325 | 1,299,616 | 1,296,281 | 1,292,050 |
| 18. | Transportation Savings | (49,441,053) | (49,441,053) | (49,441,053) | (49,441,053) | (49,441,053) | (49,441,053) | (49,441,053) | (49,441,053) |
| 19. | Gas Costs | (14,979,357) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) | (12,935,757) |
| 20. | O&M Expenses | 52,879,208 | 54,303,510 | 54,297,248 | 54,296,601 | 54,294,998 | 54,292,189 | 54,289,648 | 54,287,628 |
| 21. | Net Operating Cash (Before Taxes) | 6,842,061 | 6,636,250 | 6,287,083 | 5,919,064 | 5,589,263 | 5,278,933 | 5,069,720 | 4,859,548 |
| 22. | PV of Net Operating Cash (Before Taxes) At Project Outset | 1,688,036,411 | 1,694,672,661 | 1,700,939,744 | 1,706,858,808 | 1,712,449,071 | 1,717,728,699 | 1,723,001,458 | 1,728,278,869 |
| 23. | ACCUMULATED PV OF NET OPERATING CASH (BEFORE TAXES) | | | | | | | | |
| TAXES | | | | | | | | | |
| 24. | Income Tax (Before Interest Tax Shield) | (13,147,267) | (13,524,705) | (13,523,043) | (13,522,869) | (13,522,415) | (13,521,685) | (13,521,156) | (13,520,616) |
| 25. | Municipal Tax | (3,286,679) | (3,286,889) | (3,286,997) | (3,286,997) | (3,286,997) | (3,286,997) | (3,286,997) | (3,286,997) |
| 26. | Capital Tax | - | - | - | - | - | - | - | - |
| 27. | Total Taxes | (16,414,146) | (16,191,583) | (16,789,940) | (16,789,776) | (16,789,531) | (16,788,620) | (16,788,411) | (16,788,200) |
| 28. | PV of Total Taxes At Project Outset | (2,123,833) | (2,052,044) | (1,937,924) | (1,830,313) | (1,728,648) | (1,623,604) | (1,522,344) | (1,421,154) |
| 29. | ACCUMULATED PV OF TOTAL TAXES | (476,430,015) | (478,482,059) | (480,419,983) | (482,250,296) | (483,978,344) | (485,611,548) | | |
| 30. | ACCUMULATED NPV AND PI | | | | | | | | |
| 31. | Net Present Value | 424,048,658 | 428,909,603 | 433,484,341 | 437,791,023 | 441,846,032 | 447,017,707 | | |
| | Profitability Index | 1.469 | 1.475 | 1.480 | 1.485 | 1.489 | 1.494 | | |

Notes:

(1) September 12,2013 is project outset as time 0.
(2) Oct 1 2010 to Sep 12,2013 - Project planning and engineering.

(3) Sep 12,2013 to Dec 31, 2013 - mid-term discounting. Discount period equals 3.6/12*0.5 = 0.15

(4) Jan 1 to Dec 31 2014, mid term discounting. Discount period equals 12/12*0.5+3.6/12 = 0.80
(5) Year 1 - capital spending Jan 1 to Dec 31 2015, mid term discounting. Discount period equals 12/12*0.5+3.6/12 = 0.80

(6) 50% effectively considered for the first year of customer additions/revenue

(7) First year of customer additions/revenues Jan 1 to Dec 31 2015. Discount period equals 12/12*0.5+3.6/12 = 0.80

(8) Transportation savings and Transportation Services merge start Oct 15, 2015, mid-term discounting. Discount period equals 2.5/12*0.5+3.6/12 = 0.80

**ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
ENERGY PROBE RESEARCH FOUNDATION INTERROGATORY #3**

INTERROGATORY

Issue A2 Do the proposed facilities meet the Board's economic tests as outlined in the Filing Guidelines on the Economic Tests for Transmission Pipeline Applications, dated February 21, 2013 and E.B.O. 188 as applicable?

Ref: EB-2012-0451 Exhibit A, Tab 3, Schedule 1, Page 3-4 part 6 & Exhibit A, Tab 3, Schedule 5 and Table 1

- a) Please provide more detail on historic customer additions and volume growth 2004-2012 (Board Approved) and forecast 2012-2024.
- b) Please chart/graph the historic actuals and forecasts for each segment
- c) Please reconcile to the second reference.

RESPONSE

- a) Please see responses to Environmental Defence Interrogatories #2 through 8, inclusive, at Exhibits I.A4.EGD.ED.2 to I.A4.EGD.ED.8.
- b) Please see a) above.
- c) Table 1 in Exhibit A, Tab 3, Schedule 5 shows the total number of customers (unlocked customers, not incremental) for Franchise Areas 10, 20, 30, 40, and 50, which comprise the Central Weather Zone. Customer numbers shown in the table referenced in part a) above are incremental and represent the GTA Project Influence Area which resides in Franchise Areas 10, 20, and 30.

Witnesses: F. Ahmad
M. Suarez

**ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
ENERGY PROBE RESEARCH FOUNDATION INTERROGATORY #4**

INTERROGATORY

Issue A2 Do the proposed facilities meet the Board's economic tests as outlined in the Filing Guidelines on the Economic Tests for Transmission Pipeline Applications, dated February 21, 2013 and E.B.O. 188 as applicable?

Ref: EB-2012-0451 Exhibit A, Tab 3, Schedule 5, Pages 6-9, Figures 2-5

- a) Please provide for both the Central and GTA-Project Influence Area more details on volume use by sector on peak design day 2004-2012.
- b) Please provide by sector (using prior question as reference) or in aggregate the forecast 2012-2024.

RESPONSE

- a) Enbridge is unable to provide the requested information. Peak day demand forecasts are not broken out by sector for gas supply demand. Please see Board Staff Interrogatory #15 at Exhibit I.A3.EGD.STAFF.15 for an explanation and please see the response to Environmental Defence Interrogatory #7 at Exhibit I.A4.EGD.ED.7 for a summary of the historical and forecast derived peak load in m³/d from 2006 to 2025 used for network planning purposes.
- b) Please see the response to a) above.

Witness: E. Naczynski
J. Denomy

**ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
ENERGY PROBE RESEARCH FOUNDATION INTERROGATORY #5**

INTERROGATORY

Issue A2 Do the proposed facilities meet the Board's economic tests as outlined in the Filing Guidelines on the Economic Tests for Transmission Pipeline Applications, dated February 21, 2013 and E.B.O. 188 as applicable?

Ref: EB-2012-0451 Exhibit A, Tab 3, Schedule 5, Table 2 & Exhibit A, Tab3, Schedule 5.

Please provide a version of Table 2 with a column for the Board-approved Peak Day Design gas supply portfolio and one for the first full year of the GTA project operation 2015/16.

- a) Comment on any material changes.
- b) If not covered above, please explain any forecast pathway, services and toll changes related to the NEB Decision on TCPL Services and Tolls.

RESPONSE

Please see the response to CCC Interrogatory #20 at Exhibit I.A4.EGD.CCC.20.

Witness: J. Denomy

**ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
ENERGY PROBE RESEARCH FOUNDATION INTERROGATORY #6**

INTERROGATORY

Issue A2 Do the proposed facilities meet the Board's economic tests as outlined in the Filing Guidelines on the Economic Tests for Transmission Pipeline Applications, dated February 21, 2013 and E.B.O. 188 as applicable?

Ref: EB-2012-0451 Exhibit A, Tab3, Schedule 5, Attachment Table A4

- a) Please provide a version of the referenced Table showing the baseline GTA supply and transportation costs for each Scenario- Current 2012 and Future 2015/16 contracting with and without the GTA Project and the Union Kirkwall to Parkway built
- b) Please provide explanations of assumptions and results.
- c) Confirm/reconcile the costs to those shown in Exhibit E/Tab1/Schedule 1 Page 8-9-Input assumptions.

RESPONSE

- a) The requested information is not relevant as the Design Criteria utilized in 2012 are different from those that have been used in 2016. The relevant comparison is what Enbridge would have to contract for in order to meet peak day demand with and without the GTA Project facilities in place. Please see the response to CCC Interrogatory #20 at Exhibit I.A4.EGD.CCC.20.
- b) Please see response to a) above.
- c) Please see response to a) above.

Witness: J. Denomy

**ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
ENERGY PROBE RESEARCH FOUNDATION INTERROGATORY #7**

INTERROGATORY

Issue A2 Do the proposed facilities meet the Board's economic tests as outlined in the Filing Guidelines on the Economic Tests for Transmission Pipeline Applications, dated February 21, 2013 and E.B.O. 188 as applicable?

Ref: EB-2012-0451 Exhibit E, Tabl, Schedule 1, Page 8-9-Input assumptions

Preamble: The reference shows the following average use data (103m³)-Residential 2568, Commercial20230, Apartment 154877, Industrial109481

- a) Please provide the comparable Board-approved volumes from the rebasing Rate Case. (EB-2011-0210)
- b) Please quantify and discuss the basis of any material differences in the above input assumptions.

RESPONSE

- a) In the Company's Evidence Update filed June 1, 2012 for EB-2011-0354 as part of its 2013 Rebasing Application (Exhibit C5, Tab 2, Schedule 3, Page 1), average uses for General Service were forecast at 2,491 m³ for residential customers, 19,648 m³ for commercial customers, 151,222 m³ for apartment customers, and 108,350 m³ for industrial customers. These average uses were normalized to the proposed 2013 degree days.
- b) In its Decision on the Settlement Agreement for EB-2011-0354 dated November 2, 2012, the Board approved a different level of 2013 degree days from the original forecast proposed. Average uses were normalized to the Board-approved 2013 Degree Days and filed EB-2011-0354 at Exhibit N1, Tab 1, Schedule 1, Appendix C. The input assumptions for the economic tests reflect the Board's decision in the 2013 proceeding.

Witnesses: F. Ahmad
M. Suarez

**ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
ENERGY PROBE RESEARCH FOUNDATION INTERROGATORY #8**

INTERROGATORY

Issue A2 Do the proposed facilities meet the Board's economic tests as outlined in the Filing Guidelines on the Economic Tests for Transmission Pipeline Applications, dated February 21, 2013 and E.B.O. 188 as applicable?

Ref: EB-2012-0451 Exhibit E, Tabl, Schedule 1/Page 3, Para 10

Please provide a breakout that shows how many customer additions are related to future Transmission and Distribution System Expansion(s) 2017 \$21m; 2018 \$16.4m, 2019 \$13m.; 2020 \$0.3m.

RESPONSE

As noted in Exhibit E, Tab 1, Schedule 1, page. 3, footnote 3, Enbridge is not asking for approval of these projects in this application. These capital amounts have only been included in the feasibility analysis for completeness.

Witness: E. Naczynski

**ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
ENERGY PROBE RESEARCH FOUNDATION INTERROGATORY #9**

INTERROGATORY

Issue A2 Do the proposed facilities meet the Board's economic tests as outlined in the Filing Guidelines on the Economic Tests for Transmission Pipeline Applications, dated February 21, 2013 and E.B.O. 188 as applicable?

Ref: Exhibit A, Tab 3, Schedule 5 &

Exhibit E, Tabl, SI Attachment

Please provide the analysis that leads to the gas cost savings described in Exhibit A, Tab 3, Schedule 5, and calculated in Exhibit E, Tabl, Schedule 1, Attachment.

RESPONSE

Please see Exhibit A, Tab 3, Schedule 5, Attachment, Tables A1 through A4 for the assumptions and expected gas supply benefits calculations.

Witness: J. Denomy

**ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
ENERGY PROBE RESEARCH FOUNDATION INTERROGATORY #10**

INTERROGATORY

Issue A2 Do the proposed facilities meet the Board's economic tests as outlined in the Filing Guidelines on the Economic Tests for Transmission Pipeline Applications, dated February 21, 2013 and E.B.O. 188 as applicable?

Ref: EB-2012-0451 Exhibit A, Tab 3, Schedule 5 Attach Table A4 &

Exhibit E, Tabl, SI Attachment Page 1 (updated) inputs and results

- a) Please provide the latest Board-approved Transportation cost schedule. Compare to Table A4 Increased Firm Transportation Scenario and discuss differences.
- b) Please provide the analysis that leads to the transportation tolls filed in Exhibit A Tab 3 Schedule 5 and Exhibit E, Tabl, Schedule 1, l)ara 11 and Schedule 1, page 8.

RESPONSE

- a) and b) Please refer to Exhibit A, Tab 3, Schedule 5, Attachment, Table A1 for the toll assumptions utilized in the expected gas supply benefits calculations. Please refer to the response to BOMA Interrogatory #41 at Exhibit I.A1.EGD.BOMA.41 for a link to the Review and Variance Application filed by TransCanada. Union's filing for EB-2013-0074 can be found at the following link:

http://www.rds.ontarioenergyboard.ca/webdrawer/webdrawer.dll/webdrawer/search/re&sm_udf10=eb-2013-0074&sortd1=rs_dateregistered&rows=200

CONFIDENTIAL
Filed: 2013-06-07
EB-2012-0451/EB-2012-0433/EB-2013-0074
Exhibit I.A2.EGD.EP.11
Page 1 of 1
Plus Attachment

**ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
ENERGY PROBE RESEARCH FOUNDATION INTERROGATORY #11**

INTERROGATORY

Issue A2 Do the proposed facilities meet the Board's economic tests as outlined in the Filing Guidelines on the Economic Tests for Transmission Pipeline Applications, dated February 21, 2013 and E.B.O. 188 as applicable?

Ref: EB-2012-0451Exhibit E, Tab I, Schedule I plus attachment

- a) Provide all input assumptions and calculations underlying the 10 year Incremental Operating Cash flows Before Taxes (lines 16-23 of Schedule).
- b) Reconcile to Attachment Page I.
- c) Please provide a populated live Excel Spreadsheet for Profitability Analysis corresponding to the Attachment Pages 2-5 and including Tabs and linkages for all input assumptions/calculations corresponding to EB Tab1 Schedule 1 pages 8 and 9 and Attachment page I

RESPONSE

The response was filed in confidence with the Board. Parties who signed a Declaration and Undertaking will also receive copies.

**ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
FEDERATION OF RENTAL-HOUSING PROVIDERS OF ONTARIO
INTERROGATORY #24**

INTERROGATORY

REF: EB-2012-0451 EX. E, Tab 1 Schedule 3 and EX. A, Tab 3 Schedule 5

1. Please provide the specific reference(s) from EBO 134 that EGD is relying on in producing its Discounted Cash Flow Analysis using Transportation savings.
 - a. Please provide the specific references that support the comparison of the economics of the application with a future hypothetical state as is defined in Schedule 5 called the Long Haul scenario.
 - b. Please provide the results of the DCF analysis if transportation savings are not incorporated.

RESPONSE

The DCF analysis was prepared in accordance with both EBO 188 and EBO 134 as per Exhibit E, Tab 1, Schedule 1, paragraph 4. EBO 188 specifies under Section 2.2 Specific Parameters, part (e), the requirement to use "gas costs based on the weighted Average Cost of Gas ("WACOG") excluding commodity costs." The Company confirms the use of WACOG in the feasibility. The forecasted gas costs for the Project can be found at Exhibit E, Tab 1, Schedule 1, Attachment, pages 2 to 5, Line 19.

- a) The assumptions behind the economic comparison are explained in Exhibit A, Tab 3, Schedule 5.
- b) Please see response to Board Staff Interrogatory #14 at Exhibit I.A3.EGD.STAFF.14.

Witnesses: C. Fernandes
S. Murray

**ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
FEDERATION OF RENTAL-HOUSING PROVIDERS OF ONTARIO
INTERROGATORY #25**

INTERROGATORY

REF: EB-2012-0451 EX. A, Tab 3 Schedule 5, pages 21-30

Preamble: Evidence in the referenced section builds a case for a hypothetical dramatic shift in gas supply arrangements due to recent changes triggered by TCPL's recently concluded rates proceeding.

Please provide specific evidentiary references that support EGD's conclusion that STFT services may not be available by 2016 necessitating a shift to Long Haul Firm Service contracting.

RESPONSE

The evidence referred to describes upcoming shifts in gas supply arrangements based on real events that are currently unfolding in the market for natural gas in Canada. Specific evidentiary references are as follows:

- 1) TransCanada Tariff Amendments: Exhibit A, Tab 3, Schedule 5, Page 24, Paragraph 50; and,
- 2) TransCanada Energy East Pipeline: Exhibit A, Tab 3, Schedule 5, Page 23, Paragraph 48 and Page 24, Paragraph 49.

The Tariff amendments, if approved, will no longer provide Enbridge with the opportunity to lock in discretionary service at a known price on the Mainline prior to the winter season. TransCanada is requesting the ability to offer discretionary services when it chooses rather than at set times throughout the year. Enbridge cannot plan for discretionary service on the hope that TransCanada will make it available when Enbridge requires it. Nor has the NEB mandated price caps or STFT availability for LDC's such as Enbridge. Please see Exhibit A, Tab 3, Schedule 5, Page 23, Paragraph 47.

Witness: J. Denomy

The Energy East Pipeline will convert a portion of Mainline capacity from natural gas transportation service to oil transportation service and consequently reduce available capacity on the Mainline. TransCanada currently estimates that post conversion available capacity on the Mainline to the Enbridge EDA and points east would be less than current firm transportation contracts to the Enbridge EDA and points east by approximately 300 TJ/d. Capacity to the Enbridge CDA would be reduced with the conversion to oil, however, TransCanada has not provided an indication of the amount that available capacity would be reduced in relation to existing firm transportation contracts to the Enbridge CDA.

In combination with the requested Tariff amendments, the Energy East Pipeline will make discretionary service scarce relative to today. Please refer to the response to BOMA Interrogatory #41 a) at Exhibit I.A1.EGD.BOMA.41for a link to the TransCanada Compliance Filing and the TransCanada Review and Variance Application.

Witness: J. Denomy

**ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
FEDERATION OF RENTAL-HOUSING PROVIDERS OF ONTARIO
INTERROGATORY #26**

INTERROGATORY

REF: EB-2012-0451 EX. A, Tab 3 Schedule 5, pages 21-30

Under the Long Haul scenario, does EGD have sufficient storage to make this scenario feasible from a seasonable balancing perspective?

1. If not, what has been assumed about the excess summer transport?
2. If optimization is expected, has EGD estimated and included the benefits of optimizations in reducing the cost of transport?

RESPONSE

- 1) The Increased Long Haul Scenario was presented as a conservative estimate of the expected gas supply benefits from the GTA Project. It assumed 100% utilization of Long Haul Transport and displacement of an equivalent amount of other purchases to meet storage requirements. Enbridge did not take into account the potential for higher storage requirements under this scenario, nor did it factor in the alternative of less than 100% utilization in estimating gas supply benefits.
- 2) Enbridge does not incorporate Transactional Services opportunities into its gas supply plans, nor has it incorporated Transactional Services opportunities into the expected gas supply benefits.

Witness: J. Denomy

**ENBRIDGE GAS DISTRIBUTION INC. RESPONSE TO
FEDERATION OF RENTAL-HOUSING PROVIDERS OF ONTARIO
INTERROGATORY #27**

INTERROGATORY

REF: EB-2012-0451 EX. A, Tab 3 Schedule 5, pages 21-30

Under the Long Haul scenario, does EGD have the authority to require Direct Purchase customers to accept an additional 151TJ of assigned capacity?

RESPONSE

No.

The Long Haul Scenario recognizes that both utilities and the direct purchase market will shift their procurement practices in response to the changes described in the references below:

- 1) TransCanada Tariff Amendments: Exhibit A, Tab 3, Schedule 5, Paragraph 50; and,
- 2) TransCanada Energy East Pipeline: Exhibit A, Tab 3, Schedule 5, Paragraph 48.

As a result, absent the GTA Project or other short haul option, the utility and DP customers will switch to long haul firm transport and no longer rely on discretionary services. The GTA Project creates market access to short haul firm transport.

Witnesses: J. Denomy