

November 11, 2016

BY COURIER & RESS

Ms. Kirsten Walli  
Board Secretary  
Ontario Energy Board  
2300 Yonge Street, 27<sup>th</sup> Floor  
Toronto, ON M4P 1E4

**RE: EB-2016-0245 – Union Gas Limited (“Union”) – 2017 Rates – Interrogatory Responses**

Dear Ms. Walli:

Please find attached Union’s responses to the interrogatories for the above proceeding.

If you have any questions with respect to this submission please contact me at 519-436-5334.

Yours truly,

*[original signed by]*

Vanessa Innis  
Manager, Regulatory Applications

cc: Crawford Smith (Torys)  
EB-2016-0245 Intervenors

UNION GAS LIMITED

Answer to Interrogatory from  
Board Staff

Reference: Exhibit A, Tab 1, p. 6, Working Papers, Schedule 11

Preamble: Union provided the allocation of the 2017 Demand Side Management (DSM) Budget to rate classes at Working Papers / Schedule 11.

- a) Please explain any changes to the allocation of the DSM budget to rate classes from 2016 to 2017.

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**Response:**

- a) The 2017 DSM budget is allocated to rate classes using the methodology approved in Union's 2015-2020 Demand Side Management Plan application (EB-2015-0029). The description of the methodology is provided at EB-2015-0029, Exhibit A, Tab 3, p. 10. The changes to the allocation between rate classes are as a result of the DSM program changes and subsequent changes to program budget between 2016 and 2017.

UNION GAS LIMITED

Answer to Interrogatory from  
Board Staff

Reference: Exhibit A, Tab 1, p. 6, Working Papers, Schedule 17

Preamble: Union proposes to adjust its 2017 volumes and rates to reflect the 2015 Lost Revenue Adjustment Mechanism (LRAM) volume savings using its 2015 pre-audited results

- a) Please advise when the 2015 audited LRAM volumes will be available.
- b) If the audited 2015 LRAM volumes are available, please provide an update to the evidence.

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**Response:**

- a) and b) The 2015 post-audit LRAM volumes will be available after the conclusion of the audit process. The audit process is expected to be completed by March 2017.

UNION GAS LIMITED

Answer to Interrogatory from  
Board Staff

Reference: Exhibit A, Tab 1, p. 7, Working Papers, Schedule 10, p. 2, Rate Order, Appendix G

Preamble: Union noted that the OEB approved capital pass-through treatment for a number of major capital projects. Union included the OEB-approved 2017 costs for each of the cited major capital projects in 2017 rates.

- a) For each major capital project, please provide a status update and confirm that the asset will be in service in 2017.
- b) Please provide the original schedules referenced in the footnotes at Working Papers / Schedule 10 / p. 2. If there are any differences between the original schedules and the schedules set out in Appendix G, please explain the variances.
- c) For each major capital project, please provide the rate impacts (by rate class) associated with the incorporation of the project-specific 2017 revenue requirement in rates.

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**Response:**

- a) Please see Attachment 1 for Union's capital project information. None of the capital-pass through projects are completed at this time. Projects with in-service dates of November 2015 (Parkway West and Brantford-Kirkwall/Parkway D) continue to incur capital costs in 2016 related to construction clean-up.
- b) Please see Attachment 2 for the original schedules referenced in the footnotes at Rate Order, Working Papers, Schedule 10, p. 2. There are no variances between the original schedules and the schedules set out in Appendix G. However, Rate Order, Working Papers, Schedule 10, p. 2, note 1, incorrectly references EB-2013-0074, Schedule 9-7. The appropriate reference is EB-2013-0074, Schedule 10-7. Union has provided Schedule 10-7 in Attachment 2.
- c) Please see Attachment 3 for the rate impacts associated with the 2017 capital pass-through projects.

Capital Project Information

(Cdn \$ 000's)		EB-2012-0433	EB-2013-0074	EB-2014-0261	EB-2014-0182	EB-2015-0200
		<u>(Parkway West)</u>	<u>(Brantford-Kirkwall/Parkway D)</u>	<u>(Lobo C/Hamilton-Milton)</u>	<u>(Burlington Oakville)</u>	<u>(Dawn H/Lobo D/Bright C )</u>
		(a)	(b)	(c)	(d)	(e)
<u>Line No.</u>						
1	In-Service Date (Actual/Estimated)	Nov-15	Nov-15	Nov-16	Nov-16	Nov-17
2	Approved Capital Costs	\$219,430	\$204,076	\$390,715	\$119,477	\$622,505
3	Estimated Capital Costs	\$232,356	\$196,875	\$362,593	\$84,449	\$622,505
4	Revenue Requirement in 2017 Rates	\$17,182	\$15,433	\$29,121	\$8,284	\$6,758
5	Revenue Requirement in 2016 Rates	\$16,457	\$14,720	\$683	\$77	\$(1,716)
6	2016 Estimated Revenue Requirement	\$15,783	\$13,444	\$914	\$(277)	\$(2,249)
7	2016 Estimated Deferral Account Balance (line 6-line 5)*	\$(674)	\$(1,276)	\$231	\$(354)	\$(533)

Note:

There is no forecasted Revenue Requirement for 2017 other than the Board-approved amounts therefore, there is no forecasted balance for 2017 deferrals.

\* Line 7 - Debit (positive) number represents an under recovery in 2016 rates; Credit (negative) number respresents an over recovery in 2016 rates.

Filed: 2013-08-23  
EB-2012-0433  
Schedule 12-6  
Updated

UNION GAS LIMITED  
Parkway West Project Revenue Requirement by Rate Class

Line No.	Particulars (\$000's)	2014 (a)	Variance (b) = (c - a)	2015 (c)	Variance (d) = (e - c)	2016 (e)	Variance (f) = (g - e)	2017 (g)	Variance (h) = (i - g)	2018 (i)
1	Rate M1	(482)	(1,105)	(1,587)	(141)	(1,728)	341	(1,386)	290	(1,097)
2	Rate M2	(57)	(34)	(91)	126	36	49	85	41	125
3	Rate M4	(13)	(5)	(18)	35	17	12	29	10	39
4	Rate M5	(17)	(54)	(70)	(24)	(94)	11	(83)	10	(73)
5	Rate M7	(4)	6	2	21	23	4	27	3	30
6	Rate M9	(0)	6	6	9	15	1	15	0	16
7	Rate M10	(0)	0	0	0	0	0	0	0	0
8	Rate T1	(9)	(17)	(27)	9	(18)	8	(10)	7	(3)
9	Rate T2	(32)	(13)	(45)	106	61	33	95	27	122
10	Rate T3	(1)	44	43	64	107	4	111	3	114
11	Subtotal - Union South	<u>(614)</u>	<u>(1,172)</u>	<u>(1,786)</u>	<u>205</u>	<u>(1,581)</u>	<u>463</u>	<u>(1,118)</u>	<u>390</u>	<u>(728)</u>
12	Excess Utility Space	(9)	(21)	(30)	(8)	(38)	5	(33)	5	(28)
13	Rate C1	(0)	(12)	(13)	(9)	(22)	1	(20)	1	(20)
14	Rate M12	643	8,308	8,950	9,706	18,657	37	18,694	(26)	18,668
15	Rate M13	(0)	(0)	(1)	0	(1)	0	(0)	0	(0)
16	Rate M16	0	(1)	(1)	(0)	(1)	0	(1)	0	(1)
17	Subtotal - Ex-franchise	<u>633</u>	<u>8,273</u>	<u>8,906</u>	<u>9,689</u>	<u>18,595</u>	<u>44</u>	<u>18,639</u>	<u>(20)</u>	<u>18,619</u>
18	R01	(219)	(333)	(552)	131	(421)	158	(263)	134	(129)
19	R10	(28)	5	(24)	83	59	24	83	20	103
20	R20	(22)	(45)	(68)	5	(63)	18	(45)	15	(30)
21	R100	(19)	(56)	(75)	(20)	(95)	14	(81)	12	(69)
22	R25	(7)	(22)	(29)	(9)	(38)	5	(33)	4	(28)
23	Subtotal - Union North	<u>(295)</u>	<u>(452)</u>	<u>(747)</u>	<u>189</u>	<u>(557)</u>	<u>218</u>	<u>(339)</u>	<u>185</u>	<u>(154)</u>
24	In-franchise	(909)	(1,624)	(2,533)	395	(2,138)	682	(1,457)	575	(882)
25	Ex-franchise	633	8,273	8,906	9,689	18,595	44	18,639	(20)	18,619
26	Total	<u>(276)</u>	<u>6,649</u>	<u>6,373</u>	<u>10,084</u>	<u>16,457</u>	<u>726</u>	<u>17,182</u>	<u>555</u>	<u>17,737</u>

**UNION GAS LIMITED**  
Brantford to Kirkwall and Parkway D Compressor Project - Annual Rate Adjustments by Rate Class

Line No.	Particulars (\$000's)	2015 (a)	Variance (b) = (c - a)	2016 (c)	Variance (d) = (e - c)	2017 (e)	Variance (f) = (g - e)	2018 (g)
1	Rate M1	(2,310)	280	(2,029)	331	(1,698)	295	(1,403)
2	Rate M2	(440)	230	(210)	48	(162)	40	(121)
3	Rate M4	(117)	66	(51)	12	(39)	10	(29)
4	Rate M5	(57)	(13)	(70)	11	(59)	10	(49)
5	Rate M7	(46)	33	(14)	4	(10)	3	(7)
6	Rate M9	(13)	13	(0)	1	0	0	1
7	Rate M10	(0)	0	(0)	0	(0)	0	(0)
8	Rate T1	(71)	29	(42)	8	(34)	7	(27)
9	Rate T2	(364)	217	(146)	35	(111)	29	(83)
10	Rate T3	(86)	89	3	4	7	2	9
11	Subtotal - Union South	<u>(3,504)</u>	<u>945</u>	<u>(2,559)</u>	<u>454</u>	<u>(2,105)</u>	<u>397</u>	<u>(1,708)</u>
12	Excess Utility Space	(27)	(8)	(34)	5	(29)	5	(25)
13	Rate C1	(6)	(5)	(11)	1	(10)	1	(8)
14	Rate M12	2,934	13,218	16,152	44	16,197	(114)	16,083
15	Rate M13	(1)	0	(0)	0	(0)	0	(0)
16	Rate M16	(1)	0	(1)	0	(0)	0	(0)
17	Subtotal - Ex-franchise	<u>2,900</u>	<u>13,206</u>	<u>16,106</u>	<u>51</u>	<u>16,157</u>	<u>(108)</u>	<u>16,050</u>
18	R01	410	470	881	151	1,032	131	1,162
19	R10	198	161	359	22	382	19	400
20	R20	1	32	32	17	49	15	64
21	R100	(59)	(10)	(70)	13	(57)	12	(45)
22	R25	(24)	(6)	(30)	5	(25)	4	(21)
23	Subtotal - Union North	<u>527</u>	<u>646</u>	<u>1,173</u>	<u>208</u>	<u>1,381</u>	<u>180</u>	<u>1,561</u>
		0			0		0	
24	In-franchise	(2,977)	1,591	(1,386)	661	(724)	577	(147)
25	Ex-franchise	2,900	13,206	16,106	51	16,157	(108)	16,050
		0			0		0	
26	Total	<u>(77)</u>	<u>14,797</u>	<u>14,720</u>	<u>712</u>	<u>15,433</u>	<u>469</u>	<u>15,902</u>

Filed: 2014-12-12  
EB-2014-0182  
Exhibit A  
Tab 9  
Schedule 9

UNION GAS LIMITED  
Burlington to Oakville Project - Annual Rate Adjustment by Rate Class

Line No.	Particulars (\$000's)	2016 (a)	Variance (b) = (c - a)	2017 (c)	Variance (d) = (e - c)	2018 (e)
1	Rate M1	84	3,351	3,435	94	3,528
2	Rate M2	192	1,289	1,480	6	1,486
3	Rate M4	71	423	495	0	495
4	Rate M5	(26)	(18)	(44)	4	(40)
5	Rate M7	26	154	181	0	181
6	Rate M9	10	51	61	(0)	61
7	Rate M10	0	2	2	(0)	2
8	Rate T1	66	365	431	(1)	431
9	Rate T2	557	2,750	3,306	(15)	3,291
10	Rate T3	71	354	425	(2)	423
11	Subtotal - Union South	<u>1,051</u>	<u>8,720</u>	<u>9,771</u>	<u>86</u>	<u>9,858</u>
12	Excess Utility Space	(13)	(12)	(24)	2	(22)
13	Rate C1	(1)	(2)	(3)	1	(3)
14	Rate M12	(414)	(15)	(429)	68	(361)
15	Rate M13	2	(2)	(1)	2	2
16	Rate M16	(0)	(0)	(0)	0	(0)
17	Subtotal - Ex-franchise	<u>(426)</u>	<u>(31)</u>	<u>(457)</u>	<u>73</u>	<u>(384)</u>
18	Rate 01	(403)	(355)	(758)	63	(694)
19	Rate 10	(61)	(49)	(110)	10	(100)
20	Rate 20	(41)	(37)	(78)	7	(71)
21	Rate 100	(31)	(30)	(61)	5	(56)
22	Rate 25	(11)	(11)	(22)	2	(20)
23	Subtotal - Union North	<u>(548)</u>	<u>(482)</u>	<u>(1,030)</u>	<u>87</u>	<u>(943)</u>
24	In-franchise (line 11 + line 23)	503	8,238	8,741	174	8,915
25	Ex-franchise (line 17)	(426)	(31)	(457)	73	(384)
26	Total (line 24 + line 25)	<u><u>77</u></u>	<u><u>8,208</u></u>	<u><u>8,284</u></u>	<u><u>247</u></u>	<u><u>8,531</u></u>



EB-2014-0261  
Settlement Agreement  
Appendix 3  
Schedule 6

UNION GAS LIMITED

Hamilton-Milton Pipeline and Lobo C Compressor Project Revenue Requirement by Rate Class - Per Settlement

Line No.	Particulars (\$000's)	2016 (a)	Variance (b) = (c - a)	2017 (c)	Variance (d) = (e - c)	2018 (e)
1	Rate M1	(2,162)	(475)	(2,637)	469	(2,168)
2	Rate M2	(135)	369	234	70	304
3	Rate M4	(21)	116	96	17	113
4	Rate M5	(99)	(76)	(175)	15	(159)
5	Rate M7	4	65	69	6	75
6	Rate M9	8	28	37	1	38
7	Rate M10	0	1	1	0	1
8	Rate T1	(34)	39	5	12	17
9	Rate T2	(49)	401	352	51	403
10	Rate T3	65	203	268	6	275
11	Subtotal - Union South	<u>(2,423)</u>	<u>672</u>	<u>(1,750)</u>	<u>646</u>	<u>(1,104)</u>
12	Excess Utility Space	(46)	(35)	(81)	7	(74)
13	Rate C1	(14)	(17)	(31)	2	(29)
14	Rate M12	3,078	27,282	30,360	175	30,535
15	Rate M13	(1)	(0)	(1)	0	(1)
16	Rate M16	(2)	(1)	(3)	0	(3)
17	Subtotal - Ex-franchise	<u>3,014</u>	<u>27,229</u>	<u>30,243</u>	<u>184</u>	<u>30,427</u>
18	Rate 01	(549)	276	(273)	216	(57)
19	Rate 10	15	216	231	33	265
20	Rate 20	780	158	938	25	963
21	Rate 100	(113)	(80)	(193)	18	(174)
22	Rate 25	(42)	(33)	(75)	7	(68)
23	Subtotal - Union North	<u>92</u>	<u>537</u>	<u>628</u>	<u>299</u>	<u>928</u>
24	In-franchise	(2,331)	1,209	(1,122)	946	(177)
25	Ex-franchise	3,014	27,229	30,243	184	30,427
26	Total	<u>683</u>	<u>28,438</u>	<u>29,121</u>	<u>1,130</u>	<u>30,251</u>

Filed: 2015-09-24  
EB-2015-0200  
Exhibit A  
Tab 10  
Schedule 5  
UPDATED

UNION GAS LIMITED  
Lobo D, Bright C and Dawn H Compressor Project Revenue Requirement by Rate Class

Line No.	Particulars (\$000's)	2016 (a)	Variance (b) = (c - a)	2017 (c)	Variance (d) = (e - c)	2018 (e)
1	Rate M1	(1,448)	(4,404)	(5,853)	(171)	(6,024)
2	Rate M2	(183)	(482)	(665)	575	(90)
3	Rate M4	(43)	(113)	(156)	166	10
4	Rate M5	(52)	(166)	(219)	(90)	(309)
5	Rate M7	(13)	(30)	(43)	91	48
6	Rate M9	(1)	(0)	(1)	38	37
7	Rate M10	(0)	(0)	(0)	1	1
8	Rate T1	(33)	(89)	(122)	56	(66)
9	Rate T2	(125)	(305)	(430)	548	118
10	Rate T3	(4)	16	13	274	286
11	Subtotal - Union South	<u>(1,902)</u>	<u>(5,575)</u>	<u>(7,477)</u>	<u>1,488</u>	<u>(5,988)</u>
12	Excess Utility Space	(21)	(52)	(73)	(37)	(110)
13	Rate C1	(6)	(22)	(28)	(28)	(56)
14	Rate M12	1,120	16,889	18,009	34,076	52,085
15	Rate M13	(1)	(2)	(2)	(0)	(2)
16	Rate M16	(1)	(3)	(4)	(2)	(5)
17	Subtotal - Ex-franchise	<u>1,091</u>	<u>16,811</u>	<u>17,902</u>	<u>34,009</u>	<u>51,911</u>
18	Rate 01	(660)	(2,012)	(2,672)	254	(2,418)
19	Rate 10	(91)	(259)	(350)	242	(108)
20	Rate 20	(73)	(227)	(299)	(2)	(301)
21	Rate 100	(60)	(194)	(254)	(78)	(332)
22	Rate 25	(22)	(71)	(92)	(34)	(126)
23	Subtotal - Union North	<u>(906)</u>	<u>(2,762)</u>	<u>(3,667)</u>	<u>383</u>	<u>(3,284)</u>
24	In-franchise	(2,807)	(8,336)	(11,144)	1,871	(9,272)
25	Ex-franchise	1,091	16,811	17,902	34,009	51,911
26	Total	<u><u>(1,716)</u></u>	<u><u>8,474</u></u>	<u><u>6,758</u></u>	<u><u>35,881</u></u>	<u><u>42,639</u></u>

UNION GAS LIMITED  
Union North  
Average Unit Rate Impacts associated with 2017 Capital Pass-through Projects

Line No.	Particulars (cents/m³)	Billing Units	Current	Parkway Projects (3)			Burlington Oakville (3)			2016 D-P Expansion (3)			2017 D-P Expansion (3)			Total			
			Approved Rates (1)	Proposed Forecast	Revenue Requirement	Rate Change	Percent Change (4)	Revenue Requirement	Rate Change	Percent Change (4)	Revenue Requirement	Rate Change	Percent Change (4)	Revenue Requirement	Rate Change	Percent Change (4)	Revenue Requirement	Rate Change	Percent Change
			(cents / m³)	Usage (2)	(\$000's)	(cents / m³)	(%)	(\$000's)	(cents / m³)	(%)	(\$000's)	(cents / m³)	(%)	(\$000's)	(cents / m³)	(%)	(\$000's)	(cents / m³)	(%) (4)
			(a)	(b)	(c)	(d) = (c/b)	(e)=(d/a)	(f)	(g)=(f/b)	(h)=(g/a)	(i)	(j)=(i/b)	(k)=(j/a)	(l)	(m)=(l/b)	(n)=(m/a)	(o)=(c+f+i+l)	(p)=(o/b)	(q)=(p/a)
	Rate 01																		
1	Delivery	10³m³	16.8730	909,690	(1,778)	(0.1955)	-1.2%	(690)	(0.0758)	-0.4%	(2,280)	(0.2506)	-1.5%	(2,762)	(0.3036)	-1.8%	(7,509)	(0.8255)	-4.9%
2	Gas Supply Transportation	10³m³	6.6445	926,963	14	0.0015	0.0%	11	0.0012	0.0%	32	0.0034	0.1%	45	0.0049	0.1%	101	0.0109	0.2%
3	Storage	10³m³	4.0087	909,690	2,721	0.2991	7.5%	(79)	(0.0086)	-0.2%	1,978	0.2175	5.4%	48	0.0052	0.1%	4,668	0.5131	12.8%
4	Average Rate 01	10³m³	27.2684	909,690	956	0.1051	0.4%	(757)	(0.0833)	-0.3%	(270)	(0.0297)	-0.1%	(2,669)	(0.2934)	-1.1%	(2,740)	(0.3012)	-1.1%
	Rate 10																		
5	Delivery	10³m³	5.8013	337,112	(205)	(0.0607)	-1.0%	(90)	(0.0266)	-0.5%	(285)	(0.0846)	-1.5%	(361)	(0.1072)	-1.8%	(941)	(0.2791)	-4.8%
6	Gas Supply Transportation	10³m³	6.1566	343,530	(1)	(0.0003)	0.0%	0	-	0.0%	(0)	(0.0001)	0.0%	(0)	-	0.0%	(2)	(0.0005)	0.0%
7	Storage	10³m³	2.8096	337,112	712	0.2112	7.5%	(21)	(0.0061)	-0.2%	518	0.1536	5.5%	12	0.0037	0.1%	1,222	0.3625	12.9%
8	Average Rate 10		14.4286	337,112	507	0.1503	1.0%	(110)	(0.0327)	-0.2%	232	0.0689	0.5%	(349)	(0.1036)	-0.7%	280	0.0829	0.6%
	Rate 20 (5)																		
9	Delivery	10³m³	2.3209	606,176	(171)	(0.0282)	-1.2%	(73)	(0.0120)	-0.5%	(238)	(0.0393)	-1.7%	(301)	(0.0496)	-2.1%	(783)	(0.1292)	-5.6%
10	Gas Supply Transportation	10³m³	8.3057	121,935	109	0.0893	1.1%	(3)	(0.0025)	0.0%	78	0.0643	0.8%	3	0.0027	0.0%	187	0.1537	1.9%
11	Average Rate 20		3.9837	606,176	(62)	(0.0103)	-0.3%	(76)	(0.0125)	-0.3%	(160)	(0.0264)	-0.7%	(298)	(0.0491)	-1.2%	(596)	(0.0982)	-2.5%
	Rate 100 (5)																		
12	Delivery	10³m³	0.8595	1,814,867	(148)	(0.0082)	-1.0%	(61)	(0.0034)	-0.4%	(202)	(0.0111)	-1.3%	(254)	(0.0140)	-1.6%	(665)	(0.0366)	-4.3%
	Rate 20 & Rate 100 (5)																		
13	Bundled Storage	\$/GJ	2.601	739,477	90	0.121	4.7%	(3)	(0.004)	-0.2%	67	0.090	3.5%	(2)	(0.003)	-0.1%	151	0.205	7.9%
	Rate 25																		
14	Delivery	10³m³	2.7662	159,555	(55)	(0.0343)	-1.2%	(22)	(0.0139)	-0.5%	(74)	(0.0462)	-1.7%	(91)	(0.0571)	-2.1%	(242)	(0.1515)	-5.5%
15	Gas Supply Transportation	10³m³	3.9483	42,913	(2)	(0.0044)	-0.1%	(0)	(0.0002)	0.0%	(1)	(0.0025)	-0.1%	(1)	(0.0019)	0.0%	(4)	(0.0091)	-0.2%
16	Average Rate 25		3.8998	159,555	(57)	(0.0355)	-0.9%	(22)	(0.0140)	-0.4%	(75)	(0.0468)	-1.2%	(92)	(0.0577)	-1.5%	(246)	(0.1540)	-3.9%
17	Total Union North In-Franchise (6)				1,285			(1,029)			(408)			(3,663)			(3,815)		

Notes:

- (1) Rate Order, Working Papers, Schedule 4, column (c).
- (2) Rate Order, Working Papers, Schedule 4, column (t).
- (3) Rate Order, Working Papers, Schedule 10, p. 2 for project-specific total revenue requirement by rate class.
- (4) Excludes Gas Supply Commodity related costs.
- (5) Costs per Rate Order, Working Papers, Schedule 10, p.2 includes Rate 20 & Rate 100 bundled storage.
- (6) Rate Order, Working Papers, Schedule 10, p. 2, line 6.

UNION GAS LIMITED  
Union South  
Average Unit Rate Impacts associated with 2017 Capital Pass-through Projects

Line No.	Particulars (cents/m³)	Billing Units	Current	Parkway Projects (3)			Burlington Oakville (3)			2016 D-P Expansion (3)			2017 D-P Expansion (3)			Total			
			Approved Rates (1)	Proposed Forecast	Revenue Requirement	Rate Change	Percent Change	Revenue Requirement	Rate Change	Percent Change	Revenue Requirement	Rate Change	Percent Change	Revenue Requirement	Rate Change	Percent Change	Revenue Requirement	Rate Change	Percent Change
			(cents / m³)	Usage (2)	(\$000's)	(cents / m³)	(%)	(\$000's)	(cents / m³)	(%)	(\$000's)	(cents / m³)	(%)	(\$000's)	(cents / m³)	(%)	(\$000's)	(cents / m³)	(%)
			(a)	(b)	(c)	(d) = (c/b)	(e)=(d/a)	(f)	(g)=(f/b)	(h)=(g/a)	(i)	(j)=(i/b)	(k)=(j/a)	(l)	(m)=(l/b)	(n)=(m/a)	(o)=(c+f+i+l)	(p)=(o/b)	(q)=(p/a)
	Rate M1																		
1	Delivery	10³m³	12.5772	2,897,179	(2,680)	(0.0925)	-0.7%	3,600	0.1243	1.0%	(2,083)	(0.0719)	-0.6%	(5,265)	(0.1817)	-1.4%	(6,428)	(0.2219)	-1.8%
2	Storage	10³m³	0.7027	2,897,179	(366)	(0.0126)	-1.8%	(164)	(0.0057)	-0.8%	(542)	(0.0187)	-2.7%	(578)	(0.0199)	-2.8%	(1,650)	(0.0569)	-8.1%
3	Average Rate M1		13.2799	2,897,179	(3,046)	(0.1051)	-0.8%	3,436	0.1186	0.9%	(2,625)	(0.0906)	-0.7%	(5,843)	(0.2017)	-1.5%	(8,077)	(0.2788)	-2.1%
	Rate M2																		
4	Delivery	10³m³	4.2345	1,127,028	34	0.0030	0.1%	1,537	0.1363	3.2%	421	0.0373	0.9%	(466)	(0.0414)	-1.0%	1,525	0.1353	3.2%
5	Storage	10³m³	0.6161	1,127,028	(125)	(0.0111)	-1.8%	(56)	(0.0050)	-0.8%	(185)	(0.0164)	-2.7%	(197)	(0.0175)	-2.8%	(563)	(0.0499)	-8.1%
6	Average M2		4.8506	1,127,028	(91)	(0.0081)	-0.2%	1,481	0.1314	2.7%	236	0.0210	0.4%	(663)	(0.0589)	-1.2%	963	0.0854	1.8%
	Rate M4																		
7	Delivery	10³m³	3.8788	349,263	(15)	(0.0044)	-0.1%	495	0.1417	3.7%	96	0.0274	0.7%	(156)	(0.0447)	-1.2%	419	0.1201	3.1%
	Rate M5 - Firm																		
8	Delivery	10³m³	3.5202	15,121	(5)	(0.0340)	-1.0%	8	0.0517	1.5%	(3)	(0.0170)	-0.5%	(4)	(0.0289)	-0.8%	(4)	(0.0282)	-0.8%
	Rate M5 - Interruptible																		
9	Delivery	10³m³	2.9432	450,329	(134)	(0.0298)	-1.0%	(52)	(0.0116)	-0.4%	(172)	(0.0382)	-1.3%	(214)	(0.0476)	-1.6%	(573)	(0.1271)	-4.3%
	Rate M7 - Firm																		
10	Delivery	10³m³	3.5904	120,879	16	0.0132	0.4%	181	0.1499	4.2%	71	0.0585	1.6%	(41)	(0.0338)	-0.9%	227	0.1878	5.2%
	Rate M7 - Interruptible																		
11	Delivery	10³m³	1.4412	3,949	(2)	(0.0477)	-3.3%	(1)	(0.0147)	-1.0%	(2)	(0.0533)	-3.7%	(2)	(0.0605)	-4.2%	(7)	(0.1762)	-12.2%
	Rate M9																		
12	Delivery	10³m³	1.3360	60,750	14	0.0238	1.8%	61	0.1003	7.5%	37	0.0602	4.5%	(1)	(0.0019)	-0.1%	111	0.1825	13.7%
	Rate M10																		
13	Delivery	10³m³	5.9327	189	0	0.0097	0.2%	2	0.9448	15.9%	1	0.4331	7.3%	(0)	(0.1154)	-1.9%	2	1.2722	21.4%
	Rate T1 - Storage and Transportation																		
14	Delivery	10³m³	2.0873	511,234	(45)	(0.0089)	-0.4%	431	0.0843	4.0%	5	0.0010	0.0%	(122)	(0.0239)	-1.1%	269	0.0526	2.5%
	Rate T2 - Storage and Transportation																		
15	Delivery	10³m³	0.9886	4,597,268	(29)	(0.0006)	-0.1%	3,306	0.0719	7.3%	352	0.0077	0.8%	(430)	(0.0094)	-1.0%	3,199	0.0696	7.0%
	Rate T3 - Storage and Transportation																		
16	Delivery	10³m³	1.8643	272,712	109	0.0401	2.2%	425	0.1558	8.4%	268	0.0983	5.3%	13	0.0046	0.2%	815	0.2988	16.0%
17	Total Union South In-Franchise (5)				(3,228)			9,773			(1,736)			(7,465)			(2,656)		

Notes:  
(1) Rate Order, Working Papers, Schedule 4, column (c).  
(2) Rate Order, Working Papers, Schedule 4, column (t).  
(3) Rate Order, Working Papers, Schedule 10, p. 2 for project-specific total revenue requirement by rate class.  
(4) Excludes Gas Supply Commodity related costs.  
(5) Rate Order, Working Papers, Schedule 10, p. 2, line 17.

UNION GAS LIMITED  
Rate M12/M12-X/C1 Transportation Demand Charges Impacts associated with 2017 Capital Pass-through Projects

Line No.	Services	Current Approved Rates (\$/GJ/day) (1) (a)	Parkway Projects		Burlington-Oakville		2016 D-P Expansion		2017 D-P Expansion		Total	
			Rate Change (\$/GJ/day) (b)	Percent Change (%) (c) = (b/a)	Rate Change (\$/GJ/day) (d)	Percent Change (%) (e) = (d/a)	Rate Change (\$/GJ/day) (f)	Percent Change (%) (g) = (f/a)	Rate Change (\$/GJ/day) (h)	Percent Change (%) (i) = (h/a)	Rate Change (2) (\$/GJ/day) (j) = (a+b+d+f+h)	Percent Change (%) (k) = (j/a)
1	M12/C1 Dawn to Kirkwall	0.080	-0.002	-2.5%	-0.001	-1.3%	0.010	12.5%	0.007	8.8%	0.094	17.5%
2	M12/C1 Dawn to Parkway	0.095	-0.003	-3.2%	0.000	0.0%	0.012	12.6%	0.007	7.4%	0.111	16.8%
3	M12/C1 Kirkwall to Parkway	0.015	0.000	0.0%	0.000	0.0%	0.002	13.3%	0.001	6.7%	0.018	20.0%
4	C1 Parkway to Kirkwall / Dawn	0.024	-0.001	-4.2%	0.000	0.0%	0.003	12.5%	0.001	4.2%	0.027	12.5%
5	M12-X	0.119	-0.004	-3.4%	0.000	0.0%	0.015	12.6%	0.009	7.6%	0.139	16.8%

Notes:

- (1) EB-2016-0245, Rate Order, Working Papers, Schedule 4, column (c).  
(2) The difference between column (j) and the 2017 proposed Rate M12/C1 Transportation Demand Charges is due to the PCI adjustment found at Working Papers, Schedule 4, column (i).

UNION GAS LIMITED

Answer to Interrogatory from  
Board Staff

Reference: Exhibit A, Tab 1, pp. 8-10, Working Papers, Schedule 23

Preamble: Union proposed to implement changes to Union North storage and transportation rates in accordance with the Dawn Reference Price Settlement Proposal (EB-2015-0181) approved by the OEB on January 7, 2016. There will also be related changes to Union's service areas.

Union noted that it plans to change the reference price used to set gas commodity rates to account for the changing gas supply portfolio with the Quarterly Rate Adjustment Mechanism (GRAM) coincident with or immediately following the TransCanada King's North Project in-service date.

- a) Please explain how Union intends to communicate to customers: (i) the planned changes to their service areas; and (ii) the bill impacts arising from the implementation of the changes related to the Dawn Reference Price Settlement. If available, please provide a communications plan.
  - b) Please provide the current expected in-service date of the King's North Project.
  - c) Please explain Union's implementation plan for the changes related to the Dawn Reference Price Settlement if the King's North Project is delayed beyond January 1, 2017.
  - d) Please explain the allocation between transportation and storage set out in Columns A and B at Working Papers / Schedule 23 / p. 1. Please provide supporting evidence.
  - e) Please provide the calculation for the common cost allocation by zone set out in Column G at Working Papers / Schedule 23 / p. 1.
  - f) Please provide the calculation for the gas supply optimization allocation by zone set out in Column H at Working Papers / Schedule 23 / p. 1.
  - g) Please provide the supporting calculation for the Incentive Rate Mechanism (IRM) adjustment in Columns I and J at Working Papers / Schedule 23 / p. 1.
  - h) Please file the relevant toll schedules supporting the April 2015 and October 2016 tolls used in Working Papers / Schedule 23 / pp. 2-3.
-

**Response:**

- a) Union has developed a communications plan to address the rate and service area changes related to the Dawn Reference Price Settlement Proposal (EB-2015-0181) effective January 1, 2017. The plan will continue to evolve as necessary as the rate changes are implemented.

General Service Customers (residential and small business)

Union will communicate the service area and rate changes to the general service customers using the following methods:

- January 2017 rate inserts – “transition” inserts have been designed for January 2017 which will include rate change information and both the former rate zone and new rate zone<sup>1</sup> identifiers for customers that will see a change in their service areas.
- Customer newsletter inserts – rate change and service area change information will be provided in both the residential InTouch and small business Energy link newsletter inserts in January 2017.
- Uniongas.com – current and historical rates will be posted on the Union website, as well as, FAQ’s for both residential and small business customers.
- IVR messaging – customers will hear a message about change rates and service areas when they call Union’s contact centres in January 2017.
- Call Centre – Union customer representatives provide ongoing support to customers through the year and are available to discuss rate changes and answer individual questions as required.

Please also see Attachment 1 for Union’s general service communication plan, including key messages.

Contract and Energy Marketer Customers

Union Gas has and will continue to communicate the service area and rate change information to our contract and energy marketer customers using the following methods:

**Enerline and Factsline email newsletters and postings on Union Gas website.** The first communication was sent in October 2014. After filing EB-2015-0181 a communication through the Enerline/Factsline newsletter was issued on July 21, 2015. Updates on the service area and reference price rate changes have continued using these newsletters, with the information posted online, throughout 2015 and 2016 (Nov. 26, 2015; Mar. 24, 2016; Aug. 24, 2016). Union Gas communicated the original 2017 rates filing (EB-2016-0245) on Sept. 29, 2016 and the refiled 2017 rates on Oct. 29, 2016. Union plans to send an Enerline/Factsline once final 2017 rates are approved.

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<sup>1</sup> Rate Zone changes per the Dawn Reference Price and North T-Service proceeding (EB-2015-0181) Decision and Order dated January 7, 2016.

Historical Enerline/Factsline communications can be found online at <https://www.uniongas.com/business/communication-centre/newsletter>.

**Formal customer and energy marketer meetings.** Union Gas conducts group customer meetings as part of the normal course of business. Rate updates during these meetings included the proposed changes beginning the spring of 2015. These meeting occur annually and presentations are posted on the Union Gas website. These meeting occurred in May 2015 and May 2016. Presentations can be found online at <https://www.uniongas.com/business/your-business/energy-marketers>.

**Customer webex meeting.** Union Gas hosted a webex meeting on April 2, 2015 with customers. The webex can be found online at <https://www.uniongas.com/business/your-business/energy-marketers>.

**Ongoing customer discussions and support.** Union Gas Account Managers provide ongoing support to customers through the year and are available to discuss rate and service changes and answer individual questions as required.

- b) On November 2, 2016, TransCanada PipeLine (“TransCanada”) received approval from the National Energy Board (“NEB”) on their leave to open application. Union is still awaiting final communication from TransCanada on the exact in-service date of the King’s North Project, however, Union is expecting the project will be in-service by mid November.
- c) As noted above, TransCanada has received leave to open approval from the NEB for the King’s North facilities. In addition, TransCanada has indicated that the Maple facilities will be in-service early December 2016. Given this recent information, we do not expect the facilities in-service date will extend beyond January 1, 2017.

However, in the unlikely circumstance that the TransCanada Maple facilities are delayed beyond January 1, 2017, Union would expect the in-service date to be imminent and would proceed with plans to implement changes in Union North East and Union North West storage and transportation rates effective January 1, 2017. Changes to the reference price will also be reflected in the January 2017 QRAM proceeding.

- d) In Union’s EB-2015-0181 proceeding, Union sought approval to update the Union North storage and transportation rates based on the gas supply plan for each calendar year from 2017 to 2018. Union’s evidence provided the detailed cost allocation, rate design and bill impacts based on the calendar year 2018 gas supply plan.

For the calendar year 2017 gas supply plan, Union provided the revenue requirement by zone by rate class at EB-2015-0181, Exhibit A, Tab 2, Appendix A, Schedule 7, column (c). To determine the 2017 cost allocation by rate class, Union applied the cost allocation methodology described at EB-2015-0181, Exhibit A, Tab 2, pp. 18-24 to the calendar year 2017 gas supply plan.



The detailed cost allocation working papers for the calendar year 2017 gas supply plan, including the storage and transportation cost allocation detail, are provided at Attachment 2.

- e) As described at EB-2015-0181, Exhibit A, Tab 2, p. 24, lines 17-19, the recovery of common costs for each of the Union North West and Union North East Zones is in proportion to annual billing units for each rate class. By using the annual billing units, the recovery of the common costs is the same for all Union North customers within each rate class, regardless of zone. The calculation of the Union North recovery of common costs by rate class is provided at Attachment 3.
- f) The gas supply optimization credit is recovered by the Union North West and Union North East Zone for each rate class in proportion to annual billing units, consistent with the existing recovery of gas supply optimization credit, per Rate Order, Working Papers, Schedule 14, p. 2. The recovery of the gas supply optimization credit for each of the Union North zone is provided at Attachment 4.
- g) The supporting calculation for the Incentive Rate Mechanism (“IRM”) adjustment is provided at Attachment 5.
- h) Please see Attachment 6 for the summary of the relevant tolls. Please see Attachments 7-12 for the relevant toll schedules for TransCanada and CTHI/CPMI.

**Residential & Banner-Billed Business Customers Rate Zone Change Communication Plan**  
**4 Nov. 2016 (DRAFT)**

**Audiences**

<b>Audience</b>	<b># of Customers</b>	<b>Current Rate Classes</b>
Residential customers	~1,300,000	M1, 101, 201, 301, 601 (sales & DP)
Business (all Banner billed)	~110,000	M2, 110, 210, 310, 610 (sales & DP)

**Residential**

<b>Date</b>	<b>Tactic</b>
January 2017	New North West rate notice (distributed in paper bills & posted online)
	New North East rate notice (distributed in paper bills & posted online)
	Existing Rate M1 rate notice (distributed in paper bills & posted online)
	FAQs (posted online)
	intouch newsletter (distributed in paper bills & posted online)
	IVR message – rate 01
	Uniresponse
	<a href="http://uniongas.com/residentialrates">uniongas.com/residentialrates</a>
	<a href="http://uniongas.com/residential/rates/historical-rates">uniongas.com/residential/rates/historical-rates\</a>

**Business (Banner Billed, Non-Account Managed)**

Date	Tactic
January 2017	New North West rate notice (distributed in paper bills & posted online)
	New North East rate notice (distributed in paper bills & posted online)
	Existing Rate M2 rate notice (distributed in paper bills & posted online)
	Online FAQs - <a href="https://www.uniongas.com/business/account-services/myaccount/rates/faqs">https://www.uniongas.com/business/account-services/myaccount/rates/faqs</a>
	Energylink newsletter (distributed in paper bills & posted online)
	Uniresponse
	Rates webpage – MyAccount business section <a href="https://www.uniongas.com/business/account-services/myaccount/rates">https://www.uniongas.com/business/account-services/myaccount/rates</a>
	Business historical rates webpage <a href="https://www.uniongas.com/business/account-services/myaccount/rates/summary">https://www.uniongas.com/business/account-services/myaccount/rates/summary</a>

**Rate Class Change Key Messages\***  
**(May be updated as required)**

**Residential**

- North American natural gas markets are changing, with increasing gas production in areas closer to Ontario, and declining production from Western Canada
- As a result, Union Gas has received approval from the Ontario Energy Board (OEB) to change its rates and applicable areas (rate zones) to better reflect how it buys and transports natural gas to northern and eastern Ontario and the true costs to supply gas for these customers as of Jan. 1, 2017
- Customers will be made aware of their new rate zone
- This will result in changes to Union Gas customer rates that vary depending on where they live and be phased in between 2017 and 2018
- Rate M1- South customers who buy their natural gas from Union Gas will not see a Transportation to Union Gas rate on their bill because the cost of transporting gas to Ontario is captured in the commodity rate

- Customers in the new *Rate 01 - North East* zone will notice a significant increase in the commodity price on their bill, but this is offset by a significant decrease in the transportation cost, resulting in a small total net bill increase of about 5% or less
- Union Gas buys natural gas and gas transportation services in a highly competitive open market and passes the actual cost of these to you without mark up
- The OEB reviews and approves our gas rates before they take effect, ensuring that the rates we pass onto you are fair and reasonable
- Equal Billing Plan customer payment amounts are periodically reviewed throughout the year to determine if payment amounts are set at the correct levels and, if not, they're adjusted based on the more current information, including natural gas and gas transportation rate changes
- If you're a customer who buys natural gas from an energy marketer, the price you pay for your gas depends on the terms of your contract. Contact your energy marketer directly at the telephone number that appears on your bill with questions
- Visit **[uniongas.com/residentialrates](http://uniongas.com/residentialrates)** for more information

#### **Business (Banner Billed)**

- North American natural gas markets are changing, with increasing gas production in areas closer to Ontario, and declining production from Western Canada
- As a result, Union Gas has received approval from the Ontario Energy Board (OEB) to change its rates and applicable areas (rate zones) to better reflect how it supplies and transports natural gas to its customers in northwestern and northeastern Ontario and the true costs to buy and transport gas for those areas as of Jan. 1, 2017
- Customers will be made aware of their new rate zone
- This will result in changes to Union Gas customer rates that vary depending on where they are located and be phased in between 2017 and 2018
- Union Gas buys natural gas supplies from the market and we pay other pipeline companies to transport the gas supply from where it is produced into the Union Gas distribution system in Ontario. In northern Ontario, the transportation costs on your bill reflect the different mix of natural gas transportation pipelines and supply markets (where we purchase natural gas supplies) that are used to serve your area of the province.

- Rate M2- South customers who buy their natural gas from Union Gas will not see a Transportation to Union Gas rate on their bill because the cost of transporting gas to Ontario is captured in the commodity rate
- Customers in the new *Rate 10 - North East* zone will notice a significant increase in the commodity price on their bill, but this is offset by a significant decrease in the transportation cost, resulting in a small total net bill increase of about 5% or less
- Union Gas buys natural gas and gas transportation services in a highly competitive open market and passes the actual cost of these to you without mark up
- The Ontario Energy Board reviews and approves our gas rates before they take effect, ensuring that the rates we pass onto you are fair and reasonable
- If you're a Union North customer who buys natural gas from an energy marketer, the price you pay for your gas depends on the terms of your contract. Contact your energy marketer directly at the telephone number that appears on your bill with questions
- If you're a Union South customer who buys natural gas from an energy marketer, the price you pay for gas and gas transportation depends on the terms of your contract. Contract your energy marketer directly at the telephone number that appears on your bill with questions
- Visit **[uniongas.com/business](http://uniongas.com/business)** for more information

*\*There will be other rate changes occurring on Jan. 1, 2017, that will impact customer bills (e.g. QRAM, cap and trade, potential deferral clearing). Therefore, the above messages will be co-ordinated and blended with other rate change-related messaging to provide customers with a complete picture including overall bill impacts on an annualized basis as per our usual approach.*

UNION GAS LIMITED  
Approved Union North Storage and Transportation Cost Allocation to the Union North West Zone and Union North East Zone  
Based on the 2017 Gas Supply Plan at April 2015 QRAM

Line No.	Particulars (\$000's)	Total (a)	Union North West (b)	Union North East (c)
	<u>Summary of Transportation and Storage Costs</u>			
1	Transportation Demand (1)	57,671	26,453	31,217
2	Transportation Commodity (2)	1,639	638	1,001
3	Storage Demand (3)	54,687	4,460	50,227
4	Storage Commodity (4)	2,869	685	2,184
5	Total Demand and Commodity Costs	<u>116,866</u>	<u>32,236</u>	<u>84,630</u>
6	Total Transportation Common Costs (5)	<u>1,470</u>		
7	Total Transportation and Storage Costs	<u><u>118,336</u></u>		

Notes:

- (1) Exhibit B.Staff.4, Attachment 2, page 2, line 1 and line 8.
- (2) Exhibit B.Staff.4, Attachment 2, page 2, line 6 and line 9.
- (3) Exhibit B.Staff.4, Attachment 2, page 3, line 1 and lines 4 - 7.
- (4) Exhibit B.Staff.4, Attachment 2, page 3, line 2 and lines 8 - 9.
- (5) Exhibit B.Staff.4, Attachment 2, page 2, line 2 and line 4.

UNION GAS LIMITED  
Approved Union North Storage and Transportation Cost Allocation to the Union North West Zone and Union North East Zone  
Based on the 2017 Gas Supply Plan at April 2015 QRAM

Line No.	Particulars	Detailed Transportation Costs (\$000's)			Allocation Factors			
		Total	Union North West	Union North East	Factor Description	Total	Union North West	Union North East
		(a)	(b)	(c)	(d)	(e)	(f)	(g)
	<u>Cost of Gas - Transportation Demand Costs</u>							
1	Cost of Gas - Transportation Demand	55,457	26,453	29,004	Direct Assignment (\$000's)	55,457	26,453	29,004
2	Cost of Gas - Transportation Common Costs	1,271	-	-		-	-	-
3	Total Cost of Gas - Transportation Demand Costs	<u>56,728</u>	<u>26,453</u>	<u>29,004</u>				
4	Other Common Union Transportation Costs	199	-	-		-	-	-
5	Total excluding Fuel and Dawn-Parkway Costs	<u>56,927</u>						
6	Cost of Gas - Transportation Fuel	1,534	638	896	Direct Assignment (\$000's)	1,534	638	896
7	Total excluding Dawn-Parkway Costs	<u>58,460</u>						
	<u>Dawn-Parkway Costs (1)</u>							
8	Dawn-Parkway Demand Cost	2,214	-	2,214	Dawn-Parkway Design Day Demands (10 <sup>3</sup> m <sup>3</sup> )	2,671	-	2,671
9	Dawn-Parkway Commodity Cost	106	-	106	Direct Assignment (\$000's)	106	-	106
10	Total Dawn-Parkway Costs	<u>2,319</u>	<u>-</u>	<u>2,319</u>				
11	Total Allocated Costs (line 1 + line 6 + line 10)	59,310	<u>27,091</u>	<u>32,219</u>				
12	Total Common Costs (line 2 + line 4)	<u>1,470</u>						
13	Total Transportation Costs (line 12 + line 13)	<u><u>60,780</u></u>						

Notes:

- (1) Dawn-Parkway costs associated with the Union North East Zone's use of the Dawn-Parkway system on design day. Based on the 2017 Dawn-Parkway design day demands, 2,671 10<sup>3</sup>m<sup>3</sup> (or 27%) of the total demands of 9,813 10<sup>3</sup>m<sup>3</sup> (or approximately \$2.3 million of Union North Dawn-Parkway costs) are associated with firm transportation.

UNION GAS LIMITED  
Approved Union North Storage and Transportation Cost Allocation to the Union North West Zone and Union North East Zone  
Based on the 2017 Gas Supply Plan at April 2015 QRAM

Line No.	Particulars	Detailed Storage Costs (\$000's)			Allocation Factors (10 <sup>3</sup> m <sup>3</sup> )			
		Total	Union North West	Union North East	Factor Description	Total	Union North West	Union North East
		(a)	(b)	(c)	(d)	(e)	(f)	(g)
	<u>Cost of Gas - Storage Costs</u>							
1	Storage Demand (TCPL STS, FT)	41,395	1,558	39,837	Direct Assignment	41,395	1,558	39,837
2	Storage Fuel (TCPL STS, FT)	662	274	388	Direct Assignment	662	274	388
3	Total Cost of Gas - Storage Costs	<u>42,057</u>	<u>1,832</u>	<u>40,225</u>				
	<u>Storage Costs (Allocated)</u>							
4	Storage Deliverability	4,190	853	3,338	Storage Design Day Demands	7,938	1,615	6,323
5	Storage Space	5,644	1,533	4,111	Aggregate Excess (1)	438,925	119,234	319,691
6	Dawn-Parkway Demand	5,919	679	5,240	Dawn-Parkway Design Day Demands	7,142	819	6,323
7	Reclassification to Delivery	(2,461)	(162)	(2,299)	Indirect (2)			
8	Storage Commodity	1,925	374	1,551	Storage Volumes	891,274	172,956	718,318
9	Dawn-Parkway Commodity	282	37	245	Storage Volumes excl. Union SSMDA	825,716	108,934	716,782
10	Total Allocated Storage Costs	<u>15,499</u>	<u>3,313</u>	<u>12,187</u>				
11	Total Storage Costs (line 3 + line 10)	<u>57,556</u>	<u>5,145</u>	<u>52,411</u>				

Notes:

- (1) 2016 Union North storage space forecast based on aggregate excess, the excess of winter volumes (November-March) compared to the average annual volumes for the same 151-day period.  
(2) Storage costs deemed to be system integrity-related and recovered in delivery rates, as per Board-approved methodology. Costs are allocated to zone in proportion to Dawn-Parkway and STS Demand costs, as per EB-2011-0210, Rate Order, Working Papers, Schedule 20.



UNION GAS LIMITED  
Approved Union North Transportation and Storage Cost Allocation to the Union North West Zone and Union North East Zone by Rate Class  
Based on the 2017 Gas Supply Plan at April 2015 QRAM

Line No.	Particulars	Transportation Costs (\$000's)				Storage Costs (\$000's)			Total (h) = (d + g)
		Transportation Demand (1)	Transportation Commodity (2)	Transportation Common (3)	Total Transportation	Storage Demand (4)	Storage Commodity (5)	Total Storage	
		(a)	(b)	(c)	(d) = (a + b + c)	(e)	(f)	(g) = (e + f)	
	Union North West								
1	Rate 01	18,848	428		19,276	3,434	462	3,895	23,171
2	Rate 10	5,076	129		5,206	779	139	919	6,125
3	Rate 20	2,399	75		2,474	247	84	331	2,805
4	Rate 100	-	-		-	-	-	-	-
5	Rate 25	130	6		136	-	-	-	136
6	Total Union North West	26,453	638		27,091	4,460	685	5,145	32,236
	Union North East								
7	Rate 01	20,785	642		21,427	37,151	1,385	38,536	59,962
8	Rate 10	7,623	250		7,873	10,250	539	10,789	18,662
9	Rate 20	2,188	81		2,269	2,569	245	2,814	5,083
10	Rate 100	-	-		-	257	15	272	272
11	Rate 25	622	28		651	-	-	-	651
12	Total Union North East	31,217	1,001		32,219	50,227	2,184	52,411	84,630
	Total								
13	Rate 01	39,632	1,070	981	41,683	40,584	1,846	42,431	84,114
14	Rate 10	12,699	379	306	13,385	11,030	679	11,708	25,093
15	Rate 20	4,587	155	147	4,889	2,816	329	3,145	8,034
16	Rate 100	-	-	14	14	257	15	272	286
17	Rate 25	753	34	22	809	-	-	-	809
18	Total (6)	57,671	1,639	1,470	60,780	54,687	2,869	57,556	118,336

Notes:

- (1) Transportation demand costs allocated in proportion to the Transportation Demand Allocation Factor, including a direct assignment to Rate 25, as provided at Exhibit B.Staff.4, Attachment 2, page 5, column (c).
- (2) Transportation commodity costs allocated in proportion to the annual volumes, including a direct assignment to Rate 25, as provided at Exhibit B.Staff.4, Attachment 2, page 5, column (d).
- (3) Of the \$1.470 million of common costs, \$0.199 million are allocated based on Board-approved methodology and \$1.271 million are allocated in proportion to the FT Demand Allocation Factor (Exhibit B.Staff.4, Attachment 2, page 5, column (c)).
- (4) Storage demand costs allocated in proportion to the excess of peak day demands over average day demands, as provided at Exhibit B.Staff.4, Attachment 2, page 5, column (e).
- (5) Storage commodity costs allocated in proportion to annual volumes, as provided at Exhibit B.Staff.4, Attachment 2, page 5, column (f).
- (6) Total storage and transportation costs as per Exhibit B.Staff.4, Attachment 2, page 1.

UNION GAS LIMITED  
Approved Union North Transportation and Storage Cost Allocation Factors  
Based on the 2017 Gas Supply Plan at April 2015 QRAM

Line No.	Particulars (10 <sup>3</sup> m <sup>3</sup> )	Transportation Demand			Transportation Commodity	Storage Demand	Storage Commodity
		Average Day Demands (1)	Remaining Demands (2)	Demand Allocation (c) = (a + b)	Annual Delivery Volumes (3)	Excess Peak Over Average (4)	Annual Delivery Volumes (5)
		(a)	(b)	(c) = (a + b)	(d)	(e)	(f)
Union North West							
1	Rate 01	700	543	1,243	255,538	1,875	255,538
2	Rate 10	212	123	335	77,214	426	77,214
3	Rate 20	122	36	158	44,563	135	46,277
4	Rate 100	-	-	-	-	-	-
5	Total Union North West	1,034	702	1,736	377,314	2,435	379,029
6	% FT Allocation	60%	40%	100%			
Union North East							
7	Rate 01	1,723	431	2,154	628,883	4,623	628,883
8	Rate 10	671	119	790	244,942	1,275	244,942
9	Rate 20	217	10	227	79,048	320	111,430
10	Rate 100	-	-	-	-	32	5,332
11	Total Union North East	2,611	560	3,171	952,874	6,250	990,587
12	% FT Allocation	82%	18%	100%			
Total							
13	Rate 01	2,423	974	3,397	884,421	6,498	884,421
14	Rate 10	883	242	1,125	322,156	1,701	322,156
15	Rate 20	339	46	385	123,611	455	157,707
16	Rate 100	-	-	-	-	32	5,332
17	Total	3,644	1,263	4,907	1,330,188	8,685	1,369,616
Rate 25 - Direct Assignment (\$000's) (6)							
		Transportation					
		Demand	Commodity				
18		753	34				

Notes:

- (1) The base transportation demand costs are allocated in proportion to the average day volumes for sales service and bundled direct purchase customers.
- (2) The remaining transportation demand costs are allocated in proportion to the excess of peak day demands over average day demands.
- (3) Transportation commodity costs are allocated in proportion to annual delivery volumes for firm sales service and bundled direct purchase customers.
- (4) Storage demand costs are allocated in proportion to the excess of peak day demands over average day demands. The storage allocation includes sales service, bundled direct purchase and bundled storage demands.
- (5) Storage commodity costs are allocated in proportion to sales service, bundled direct purchase and bundled storage annual volumes.
- (6) Consistent with Board-approved methodology, Rate 25 costs are calculated based on Rate 25 winter volumes by delivery area applied to the respective weighted TransCanada toll.

UNION GAS LIMITED  
Calculation of the Recovery of Common Costs for the Union North West and Union North East Zone by Rate Class  
Based on the 2017 Gas Supply Plan per EB-2015-0181 at April 2015 QRAM

Line No.	Particulars	Total Common Costs	Total Billing Units	Common Unit Rate	Union North West		Union North East	
		(\$000's) (1)	(10 <sup>3</sup> m <sup>3</sup> ) (2)	(cents/m <sup>3</sup> )	Billing Units (10 <sup>3</sup> m <sup>3</sup> )	Revenue (\$000's) (1)	Billing Units (10 <sup>3</sup> m <sup>3</sup> )	Revenue (\$000's) (1)
		(a)	(b)	(c) = (a/b*100)	(d)	(e) = (d*c/100)	(f)	(g) = (f*c/100)
1	Rate 01 - Transportation	981	926,963	0.106	267,830	283	659,134	697
2	Rate 10 - Transportation	306	343,530	0.089	82,150	73	261,380	233
	Rate 20							
3	Gas Supply Demand Charge	88	6,873	1.279	2,962	38	3,911	50
4	Commodity Transportation 1	59	73,456	0.080	28,383	23	45,073	36
5	Total Rate 20	147				61		86
6	Rate 100 - Storage	14	15,600	0.090	-	-	15,600	14
7	Rate 25 - Transportation	22	42,913	0.051	5,867	3	37,046	19
8	Total	1,470				420		1,049

Notes:

- (1) Rate Order, Working Papers, Schedule 23, p.1, column (g). Rate 20 common costs are recovered 60% in the Gas Supply Demand Charge and 40% in the Commodity Transportation 1 Charge, consistent with Board-approved Rate 20 rate design.
- (2) Rate Order, Working Papers, Schedule 4, column (t).

UNION GAS LIMITED

Calculation of the Union North Gas Supply Optimization for the Union North West and Union North East Zone by Rate Class

Line No.	Particulars	Gas Supply Optimization Margin	Total Billing Units	Common Unit Rate	Union North West		Union North East	
		(\$000's) (1)	(10 <sup>3</sup> m <sup>3</sup> ) (2)	(cents/m <sup>3</sup> )	Billing Units (10 <sup>3</sup> m <sup>3</sup> )	Revenue (\$000's)	Billing Units (10 <sup>3</sup> m <sup>3</sup> )	Revenue (\$000's)
		(a)	(b)	(c) = (a/b*100)	(d)	(e) = (d*c/100)	(f)	(g) = (f*c/100)
1	Rate 01 - Transportation	(3,920)	926,963	(0.423)	267,830	(1,133)	659,134	(2,787)
2	Rate 10 - Transportation	(1,342)	343,530	(0.391)	82,150	(321)	261,380	(1,021)
	Rate 20							
3	Gas Supply Demand Charge	(286)	6,873	(4.164)	2,962	(123)	3,911	(163)
4	Commodity Transportation 1	(191)	73,456	(0.260)	28,383	(74)	45,073	(117)
5	Total Rate 20	(477)				(197)		(280)
6	Rate 25 - Transportation	(117)	42,913	(0.272)	5,867	(16)	37,046	(101)
7	Total	(5,856)				(1,667)		(4,189)

Notes:

- (1) Rate Order, Working Papers, Schedule 14, p.2, column (e). Rate 20 common costs are recovered 60% in the Gas Supply Demand Charge and 40% in the Commodity Transportation 1 Charge, consistent with Board-approved Rate 20 rate design.
- (2) Rate Order, Working Papers, Schedule 4, column (t).

UNION GAS LIMITED  
Calculation of the Union North IRM Adjustments by Rate Class

Line No.	Particulars (\$000's)	2013 BA Adjustment Rev/Cost Variance (1) (a)	2013 One-Time Adjustment (2) (b)	2014 PCI (3) (c)	2014 Tax-Related Adjustments (4) (d)	2015 PCI (5) (e)	2015 One-Time Adjustments (6) (f)	2016 PCI (7) (g)	2017 PCI (8) (h)	Total Change in Revenue (i) = (sum a:h)
	Rate 01									
1	Transport	-	(15)	0	(3)	1	-	1	1	(15)
2	Storage	-	57	77	21	124	(59)	122	102	444
3	Total	-	42	78	18	125	(59)	123	102	429
	Rate 10									
5	Transport	-	(3)	0	(0)	0	-	0	0	(2)
6	Storage	-	15	21	5	33	(15)	33	27	119
7	Total	-	12	21	5	33	(15)	33	27	116
	Rate 20									
7	Demand	-	(3)	1	1	1	(4)	(1)	(1)	(5)
8	Commodity	-	-	-	-	-	-	(1)	(0)	(1)
9	Bundled Storage - Demand	-	-	5	-	8	-	10	8	31
10	Bundled Storage - Commodity	-	-	1	-	1	-	1	1	3
11	Total	-	(3)	6	1	10	(4)	9	8	28
	Rate 100									
12	Bundled Storage - Demand	13	3	0	0	1	(0)	1	1	18
13	Bundled Storage - Commodity	3	1	0	0	0	(0)	0	0	5
14	Rate 25 - Transport	-	(3)	0	0	0	-	0	0	(2)
15	Total	16	53	105	25	169	(79)	166	138	594

Notes:

- (1) EB-2011-0210, Rate Order, Working Papers, Schedule 14, column (f), applies to rate classes showing a revenue sufficiency only.
- (2) EB-2013-0365, Rate Order, Working Papers, Schedule 4, column (g), excluding the Regulated/Unregulated Adjustment to the updated 2013 cost study as filed with the 2014 Rates (EB-2013-0365) Application and Settlement Agreement.
- (3) EB-2013-0365, Rate Order, Working Papers, Schedule 4, column (i).
- (4) EB-2013-0365, Rate Order, Working Papers, Schedule 4, column (k).
- (5) EB-2014-0271, Rate Order, Working Papers, Schedule 4, column (i).
- (6) EB-2014-0271, Rate Order, Working Papers, Schedule 4, column (f).
- (7) EB-2015-0116, Rate Order, Working Papers, Schedule 4, column (i).
- (8) Rate Order, Working Papers, Schedule 4, column (i).

UNION GAS LIMITED  
Calculation of the IRM Adjustments for the Union North West and Union North East Zone by Rate Class

Line No.	Particulars	IRM Adjustment	Total Billing Units	Common Unit Rate	Union North West		Union North East	
		(\$000's) (1)	(10 <sup>3</sup> m <sup>3</sup> ) (2)	(cents/m <sup>3</sup> )	Billing Units (10 <sup>3</sup> m <sup>3</sup> )	Revenue (\$000's) (1)	Billing Units (10 <sup>3</sup> m <sup>3</sup> )	Revenue (\$000's) (1)
		(a)	(b)	(c) = (a/b*100)	(d)	(e) = (d*c/100)	(f)	(g) = (f*c/100)
	Rate 01							
1	Transportation	(15)	926,963	(0.002)	267,830	(4)	659,134	(11)
2	Storage	444	964,386	0.046	278,642	128	685,744	316
	Rate 10							
3	Transportation	(2)	343,530	(0.001)	82,150	(1)	261,380	(2)
4	Storage	119	363,545	0.033	86,936	28	276,608	90
	Rate 20 (3)							
5	Gas Supply Demand Charge	(4)	6,873	(0.052)	2,962	(2)	3,911	(2)
6	Commodity Transportation	(2)	73,456	(0.003)	28,383	(1)	45,073	(1)
7	Total Rate 20	(6)				(2)		(3)
	Rate 20 - Storage (3) (4)							
8	Demand	31	99,288	0.031	41,020	13	58,268	18
9	Commodity	3	639,477	0.000	264,194	1	375,283	2
10	Total Rate 20	34				14		20
	Rate 100 - Storage (4)							
11	Demand	18	15,600	0.116	-	-	15,600	18
12	Commodity	5	100,000	0.005	-	-	100,000	5
13	Total Rate 100	23				-		23
14	Rate 25 - Transportation	(2)	42,913	(0.006)	5,867	(0)	37,046	(2)

Notes:

- (1) Exhibit B.Staff.4, Attachment 5, p. 1, column (i).
- (2) Rate Order, Working Papers, Schedule 4, column (t).
- (3) Rate 20 storage and transportation costs of \$0.006 million are combined and recovered 60% in the Gas Supply Demand Charge and 40% in the Commodity Transportation 1 Charge, consistent with Board-approved Rate 20 rate design. Storage costs of \$0.034 million are recovered through the bundled storage rate.
- (4) Bundled Storage costs are provided by zone for completeness only, as the bundled storage rates are common between zones.

UNION GAS LIMITED  
Union North Upstream Tolls

Line No.	Particulars	April 2015 QRAM (1)			October 2016 QRAM (2)		
		Posted Tolls (\$/GJ)	Abandonment (\$/GJ)	Total (\$/GJ)	Posted Tolls (\$/GJ)	Abandonment (\$/GJ)	Total (\$/GJ)
		(a)	(b)	(c) = (a + b)	(d)	(e)	(f) = (d + e)
	<u>Transportation</u>						
	Union North West Zone Demand Tolls						
1	TCPL MDA	20.3445	1.5694	21.914	19.7310	1.6780	21.409
2	TCPL SSMDA	40.6385	3.3553	43.994	39.4127	3.5898	43.002
3	TCPL WDA	29.1288	2.3424	31.471	28.2501	2.5055	30.756
4	CTHI/CPMI (3)			18.805			18.785
	Union North East Zone Demand Tolls						
5	TCPL NCDA	53.7685	4.2560	58.024	52.9795	4.5540	57.533
6	TCPL EDA	59.3460	4.7204	64.066	58.4751	5.0511	63.526
7	TCPL NDA	44.8050	3.7219	48.527	43.4533	3.9823	47.436
8	TCPL PKWY EDA	11.6088	0.5289	12.138	11.8421	0.5642	12.406
9	TCPL PKWY NDA	16.5938	0.8509	17.445	16.9275	0.9089	17.836
10	TCPL PKWY NCDA	8.3254	0.3168	8.642	8.4926	0.3372	8.830
	<u>Storage</u>						
	Union North West Zone Demand Tolls						
11	TCPL WDA STS Injection	38.9358	2.2940	41.230	39.7184	2.4537	42.172
	Union North East Zone Demand Tolls						
12	TCPL NDA STS Injection	16.5938	0.8509	17.445	16.9275	0.9089	17.836
13	TCPL EDA STS Withdrawal	11.6088	0.5289	12.138	11.8421	0.5642	12.406
14	TCPL Pkwy to EDA	11.6088	0.5289	12.138	11.8421	0.5642	12.406
15	TCPL Pkwy to EDA EMB	12.7698	0.5289	13.299	13.0263	0.5642	13.591
16	TCPL Pkwy to NDA	16.5938	0.8509	17.445	16.9275	0.9089	17.836

Notes:

- (1) Interim Mainline Transportation Tolls and Interim Abandonment Surcharges effective Jan 1, 2015 - Attachment 2.
- (2) Final Mainline Transportation Tolls effective Jul 1, 2015 (Amended Nov 1, 2015) and Final Abandonment Surcharges effective Jan 1, 2016 - Attachment 3.
- (3) CTHI Toll = (Toll  $\$/10^3\text{m}^3/\text{mo}$  + Abandonment  $\$/10^3\text{m}^3/\text{mo}$ ) / (Heat Value  $10^3\text{m}^3/\text{GJ}$ )  
CTHI Toll April 2015 =  $(446.771+152.481) / 37.97 = 15.7822 \text{ \$/GJs/mo}$   
CTHI Toll Oct 2016 =  $(449.104+106.844) / 38.26 = 14.5308 \text{ \$/GJs/mo}$

CPMI Toll = (Toll  $\$/\text{Mcf/mo}$ ) / (Heat Value  $10^3\text{m}^3/\text{GJ}$ ) \* (Conversion Factor  $10^3\text{m}^3/\text{Mcf}$ )  
CPMI Toll April 2015 =  $3.2510 / 37.97 * 35.300962 = 3.0225$   
CPMI Toll Oct 2016 =  $3.2990 / 38.26 * 35.300962 = 3.0439 = 4.2541 \text{ Cdn\$/GJ/mo (FX @ 1.3976)}$

Combined CTHI/CPMI April 2015 =  $15.7822 + 3.0225 = 18.805 \text{ \$/GJ}$   
Combined CTHI/CPMI Oct 2016 =  $14.5308 + 4.2541 = 18.785 \text{ \$/GJ}$

Interim Mainline Transportation Tolls and  
Interim Abandonment Surcharges  
Effective January 1, 2015

**Storage Transportation Service**

Line No	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
	(a)	(b)	(c)	(d)	(e)
1	Centram MDA	5.39470	0.17736	0.25380	0.0083
2	Union WDA	38.93577	1.28008	2.29401	0.0754
3	Union NDA	16.59381	0.54555	0.85092	0.0280
4	Union EDA	11.60883	0.38166	0.52893	0.0174
5	KPUC EDA	11.16596	0.36710	0.50032	0.0164
6	GMIT EDA	19.09133	0.62766	1.01224	0.0333
7	Enbridge CDA	5.76943	0.18968	0.15176	0.0050
8	Enbridge CDA (Amended)	5.93916	0.19526	0.16269	0.0053
9	Enbridge EDA	14.86645	0.48876	0.73933	0.0243
10	Cornwall	15.08515	0.49595	0.75348	0.0248
11	Philipsburg	19.14090	0.62929	1.01543	0.0334

**Firm Transportation - Short Notice**

Line No	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
	(a)	(b)	(c)	(d)	(e)
12	Kirkwall to Thorold CDA	6.84345	0.22499	0.18094	0.0059
13	Union Parkway Belt to Goreway CDA	5.09510	0.16751	0.07829	0.0026
14	Union Parkway Belt to Victoria Square #2 CDA	6.01733	0.19783	0.13244	0.0044
15	Union Parkway Belt to Schomberg #2 CDA	5.95710	0.19585	0.12891	0.0042

**Enhanced Market Balancing Service**

Line No	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
	(a)	(b)	(c)	(d)	(e)
16	Union Parkway Belt to Union EDA	12.76983	0.41983	0.52893	0.0174

**Delivery Pressure**

Line No	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)
	(a)	(b)	(c)

17 Average Delivery Pressure Toll 0.93744 0.03082

Note: Delivery Pressure toll applies to the following locations: Emerson 1 , Emerson 2, Union SWDA, Enbridge SWDA, Dawn Export, Niagara Falls, Iroquois, Chippawa and East Hereford.  
The Daily Equivalent Toll is only applicable to STS Injections, IT, Diversions, STFT and SSS.

**Union Dawn Receipt Point Surcharge**

Line No	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)
	(a)	(b)	(c)
18	Union Dawn Receipt Point Surcharge	0.18079	0.00594

**Short Notice Balancing (SNB) Service**

Line No.	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)
	(a)	(b)	(c)
19	SNB Toll	3.75220	0.12336

Note: This SNB Toll is a representative toll for the Eastern Region.

**Energy Deficient Gas Allowance (EDGA) Service**

Line No	Particulars	Capacity Charge (\$/GJ/D)
	(a)	(b)
20	Western Section	1.57224
21	Eastern Section	0.41040

Note: The EDGA Service capacity charge for the Western Section is the effective Empress to North Bay Junction FT Toll and the capacity charge for the Eastern Section is the effective Parkway to North Bay Junction FT Toll.  
The EDGA Service fuel charge for the Western Section includes the effective Empress to North Bay Junction monthly fuel ratio and the fuel charge for the Eastern Section includes the effective Parkway to North Bay Junction monthly fuel ratio.



Interim Mainline Transportation Tolls and  
Interim Abandonment Surcharges  
Effective January 1, 2015

- Notes: (i) Aggregate charges for Mainline transportation service will include the applicable transportation toll, abandonment surcharge, delivery pressure toll (if applicable) and Dawn receipt surcharge (if applicable) pursuant to the Mainline Tariff.
- (ii) Any transportation with a Union Dawn receipt point is subject to a Union Dawn Receipt Point Surcharge. Transport under FT, FT-NR, FT-SN and EMB service is subject to the monthly surcharge toll, and other transportation services are subject to the daily equivalent toll. Refer to page 1 for the Union Dawn Receipt Point Surcharge tolls.
- (iii) Transportation with receipt points from delivery areas or Spruce is for STFT and IT service only.
- (iv) The following delivery points are subject to an additional charge for delivery pressure: Emerson 1 & 2, Union SWDA, Enbridge SWDA, Dawn Export, Niagara Falls, Iroquois, Chippawa, and East Hereford. Refer to page 1 for the delivery pressure toll.
- (v) Effective November 1, 2015, the Enbridge CDA is modified such that the Enbridge Parkway meter is removed from the Enbridge CDA and put within a new delivery area called the Enbridge Parkway CDA. The remaining Enbridge CDA meters continue to reside within the Enbridge CDA. Effective November 1, 2016, the Union CDA is modified such that the Union Parkway Belt, Bronte and Burlington meters are removed from the Union CDA. The Bronte and Burlington meters are put within a new delivery area called the Union ECDA, and the Parkway-Union meter will become a new standalone delivery location called Union Parkway Belt. The remaining Union CDA meters, Nanticoke and Hamilton Gate, continue to reside in the Union CDA.
- (vi) The following transportation services are subject to the Abandonment Surcharges: FT, FT-NR, STS, STS-L, SSS, FT-SN, MFP, EMB, IT, STFT, and ST-SN. The Daily Equivalent Abandonment Surcharge is only applicable to IT, SSS, STFT, ST-SN, ARPs, Diversions and STS Overrun.

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Empress	Empress	2.90844	0.0956	0.03504	0.0012
2	Empress	TransGas SSDA	10.45603	0.3438	0.69922	0.0230
3	Empress	Centram SSDA	13.54819	0.4454	0.97133	0.0319
4	Empress	Centram MDA	18.24270	0.5998	1.38443	0.0455
5	Empress	Centrat MDA	20.34449	0.6689	1.56939	0.0516
6	Empress	Union WDA	29.12883	0.9577	2.34239	0.0770
7	Empress	Nipigon WDA	31.71546	1.0427	2.57004	0.0845
8	Empress	Union NDA	44.80497	1.4730	3.72189	0.1224
9	Empress	Calstock NDA	37.46999	1.2319	3.07641	0.1011
10	Empress	Tunis NDA	42.00025	1.3808	3.47507	0.1142
11	Empress	GMIT NDA	45.72872	1.5034	3.80317	0.1250
12	Empress	Union SSMDA	40.63849	1.3361	3.35526	0.1103
13	Empress	Union NCDA	53.76845	1.7677	4.25598	0.1399
14	Empress	Union CDA	55.39331	1.8212	4.39129	0.1444
15	Empress	Enbridge CDA	56.30429	1.8511	4.46713	0.1469
16	Empress	Union EDA	59.34596	1.9511	4.72037	0.1552
17	Empress	Enbridge EDA	58.08701	1.9097	4.61556	0.1517
18	Empress	KPUC EDA	60.55654	1.9909	4.82119	0.1585
19	Empress	GMIT EDA	62.18353	2.0444	4.95666	0.1630
20	Empress	Enbridge SWDA	51.12585	1.6809	4.03598	0.1327
21	Empress	Union SWDA	51.05985	1.6787	4.03047	0.1325
22	Empress	Chippawa	56.68724	1.8637	4.49901	0.1479
23	Empress	Cornwall	59.07616	1.9422	4.69793	0.1545
24	Empress	East Hereford	65.62578	2.1576	5.24327	0.1724
25	Empress	Emerson 1	20.71162	0.6809	1.60171	0.0527
26	Empress	Emerson 2	20.71162	0.6809	1.60171	0.0527
27	Empress	Iroquois	58.46479	1.9221	4.64704	0.1528
28	Empress	Kirkwall	54.59518	1.7949	4.32483	0.1422
29	Empress	Napierville	61.90126	2.0351	4.93314	0.1622
30	Empress	Niagara Falls	56.64313	1.8622	4.49535	0.1478
31	Empress	North Bay Junction	47.82230	1.5722	3.98741	0.1311
32	Empress	Philipsburg	62.22216	2.0457	4.95988	0.1631
33	Empress	Spruce	20.34449	0.6689	1.56939	0.0516
34	Empress	St. Clair	47.95978	1.5768	3.99950	0.1315
35	Empress	Welwyn	13.54819	0.4454	0.97133	0.0319
36	Empress	Dawn Export	51.12585	1.6809	4.03598	0.1327
37	Empress	Union Parkway Belt	55.29780	1.8180	4.38333	0.1441
38	Empress	Union CDA (Amended)	55.19834	1.8147	4.37506	0.1438
39	Empress	Union ECDA	55.50920	1.8250	4.40094	0.1447
40	Empress	Enbridge Parkway CDA	55.29780	1.8180	4.38333	0.1441
41	Empress	Enbridge CDA (Amended)	56.39798	1.8542	4.47493	0.1471
42	Bayhurst 1	Empress	3.43617	0.1130	0.08149	0.0027
43	Bayhurst 1	TransGas SSDA	9.92952	0.3265	0.65288	0.0215
44	Bayhurst 1	Centram SSDA	13.02046	0.4281	0.92488	0.0304
45	Bayhurst 1	Centram MDA	17.71497	0.5824	1.33800	0.0440
46	Bayhurst 1	Centrat MDA	19.81646	0.6515	1.52294	0.0501
47	Bayhurst 1	Union WDA	28.60110	0.9403	2.29597	0.0755
48	Bayhurst 1	Nipigon WDA	31.18773	1.0254	2.52359	0.0830
49	Bayhurst 1	Union NDA	44.27693	1.4557	3.67543	0.1208
50	Bayhurst 1	Calstock NDA	36.94195	1.2145	3.02996	0.0996
51	Bayhurst 1	Tunis NDA	41.47252	1.3635	3.42862	0.1127
52	Bayhurst 1	GMIT NDA	45.20099	1.4861	3.75672	0.1235
53	Bayhurst 1	Union SSMDA	40.11076	1.3187	3.30881	0.1088
54	Bayhurst 1	Union NCDA	53.21000	1.7494	4.20950	0.1384
55	Bayhurst 1	Union CDA	54.83578	1.8028	4.34486	0.1428
56	Bayhurst 1	Enbridge CDA	55.74615	1.8328	4.42067	0.1453
57	Bayhurst 1	Union EDA	58.78781	1.9328	4.67392	0.1537

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Bayhurst 1	Enbridge EDA	57.52887	1.8914	4.56910	0.1502
2	Bayhurst 1	KPUC EDA	59.99840	1.9726	4.77474	0.1570
3	Bayhurst 1	GMIT EDA	61.62569	2.0261	4.91020	0.1614
4	Bayhurst 1	Enbridge SWDA	50.56832	1.6625	3.98954	0.1312
5	Bayhurst 1	Union SWDA	50.50201	1.6603	3.98402	0.1310
6	Bayhurst 1	Chippawa	56.12909	1.8453	4.45256	0.1464
7	Bayhurst 1	Cornwall	58.51832	1.9239	4.65148	0.1529
8	Bayhurst 1	East Hereford	65.06825	2.1392	5.19682	0.1709
9	Bayhurst 1	Emerson 1	20.18389	0.6636	1.55526	0.0511
10	Bayhurst 1	Emerson 2	20.18389	0.6636	1.55526	0.0511
11	Bayhurst 1	Iroquois	57.90725	1.9038	4.60059	0.1513
12	Bayhurst 1	Kirkwall	54.03734	1.7766	4.27838	0.1407
13	Bayhurst 1	Napierville	61.34342	2.0168	4.88670	0.1607
14	Bayhurst 1	Niagara Falls	56.08529	1.8439	4.44890	0.1463
15	Bayhurst 1	North Bay Junction	47.29427	1.5549	3.94096	0.1296
16	Bayhurst 1	Philipsburg	61.66432	2.0273	4.91343	0.1615
17	Bayhurst 1	Spruce	19.81646	0.6515	1.52294	0.0501
18	Bayhurst 1	St. Clair	47.43175	1.5594	3.95305	0.1300
19	Bayhurst 1	Welwyn	13.02046	0.4281	0.92488	0.0304
20	Bayhurst 1	Dawn Export	50.56832	1.6625	3.98954	0.1312
21	Bayhurst 1	Union Parkway Belt	54.73996	1.7997	4.33688	0.1426
22	Bayhurst 1	Union CDA (Amended)	54.64080	1.7964	4.32863	0.1423
23	Bayhurst 1	Union ECDA	54.95136	1.8066	4.35450	0.1432
24	Bayhurst 1	Enbridge Parkway CDA	54.73996	1.7997	4.33688	0.1426
25	Bayhurst 1	Enbridge CDA (Amended)	55.84074	1.8359	4.42854	0.1456
26	Calstock NDA	Empress	-	1.2319	-	0.1011
27	Calstock NDA	TransGas SSDA	-	0.9838	-	0.0793
28	Calstock NDA	Centram SSDA	-	0.8821	-	0.0704
29	Calstock NDA	Centram MDA	-	0.7292	-	0.0569
30	Calstock NDA	Centrat MDA	-	0.6586	-	0.0507
31	Calstock NDA	Union WDA	-	0.3936	-	0.0274
32	Calstock NDA	Nipigon WDA	-	0.2848	-	0.0178
33	Calstock NDA	Union NDA	-	0.3368	-	0.0224
34	Calstock NDA	Calstock NDA	-	0.0956	-	0.0012
35	Calstock NDA	Tunis NDA	-	0.2446	-	0.0143
36	Calstock NDA	GMIT NDA	-	0.3671	-	0.0250
37	Calstock NDA	Union SSMDA	-	1.1194	-	0.0912
38	Calstock NDA	Union NCDA	-	0.5668	-	0.0399
39	Calstock NDA	Union CDA	-	0.6962	-	0.0507
40	Calstock NDA	Enbridge CDA	-	0.6743	-	0.0489
41	Calstock NDA	Union EDA	-	0.7524	-	0.0554
42	Calstock NDA	Enbridge EDA	-	0.7092	-	0.0518
43	Calstock NDA	KPUC EDA	-	0.7900	-	0.0585
44	Calstock NDA	GMIT EDA	-	0.8435	-	0.0630
45	Calstock NDA	Enbridge SWDA	-	0.8152	-	0.0606
46	Calstock NDA	Union SWDA	-	0.8174	-	0.0608
47	Calstock NDA	Chippawa	-	0.7598	-	0.0560
48	Calstock NDA	Cornwall	-	0.7413	-	0.0545
49	Calstock NDA	East Hereford	-	0.9567	-	0.0724
50	Calstock NDA	Emerson 1	-	0.7398	-	0.0578
51	Calstock NDA	Emerson 2	-	0.7398	-	0.0578
52	Calstock NDA	Iroquois	-	0.7212	-	0.0528
53	Calstock NDA	Kirkwall	-	0.7012	-	0.0511
54	Calstock NDA	Napierville	-	0.8342	-	0.0622
55	Calstock NDA	Niagara Falls	-	0.7583	-	0.0559
56	Calstock NDA	North Bay Junction	-	0.4360	-	0.0311
57	Calstock NDA	Philipsburg	-	0.8448	-	0.0631
58	Calstock NDA	Spruce	-	0.6586	-	0.0507
59	Calstock NDA	St. Clair	-	0.7850	-	0.0618
60	Calstock NDA	Welwyn	-	0.8821	-	0.0704
61	Calstock NDA	Dawn Export	-	0.8152	-	0.0606
62	Calstock NDA	Union Parkway Belt	-	0.6781	-	0.0492
63	Calstock NDA	Union CDA (Amended)	-	0.7150	-	0.0523
64	Calstock NDA	Union ECDA	-	0.6851	-	0.0498
65	Calstock NDA	Enbridge Parkway CDA	-	0.6781	-	0.0492
66	Calstock NDA	Enbridge CDA (Amended)	-	0.6739	-	0.0489
67	Centram MDA	Empress	-	0.5998	-	0.0455
68	Centram MDA	TransGas SSDA	-	0.3516	-	0.0237
69	Centram MDA	Centram SSDA	-	0.2500	-	0.0147
70	Centram MDA	Centram MDA	-	0.0956	-	0.0012
71	Centram MDA	Centrat MDA	-	0.1662	-	0.0074
72	Centram MDA	Union WDA	-	0.4549	-	0.0328
73	Centram MDA	Nipigon WDA	-	0.5401	-	0.0403
74	Centram MDA	Union NDA	-	0.9702	-	0.0781
75	Centram MDA	Calstock NDA	-	0.7292	-	0.0569
76	Centram MDA	Tunis NDA	-	0.8782	-	0.0700

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Centram MDA	GMIT NDA	-	1.0008	-	0.0808
2	Centram MDA	Union SSMDA	-	0.8325	-	0.0660
3	Centram MDA	Union NCDA	-	1.2364	-	0.0957
4	Centram MDA	Union CDA	-	1.2889	-	0.1001
5	Centram MDA	Enbridge CDA	-	1.3185	-	0.1025
6	Centram MDA	Union EDA	-	1.4189	-	0.1109
7	Centram MDA	Enbridge EDA	-	1.3782	-	0.1075
8	Centram MDA	KPUC EDA	-	1.4584	-	0.1142
9	Centram MDA	GMIT EDA	-	1.5130	-	0.1187
10	Centram MDA	Enbridge SWDA	-	1.1486	-	0.0884
11	Centram MDA	Union SWDA	-	1.1465	-	0.0882
12	Centram MDA	Chippawa	-	1.3315	-	0.1036
13	Centram MDA	Cornwall	-	1.4110	-	0.1102
14	Centram MDA	East Hereford	-	1.6263	-	0.1281
15	Centram MDA	Emerson 1	-	0.1774	-	0.0083
16	Centram MDA	Emerson 2	-	0.1774	-	0.0083
17	Centram MDA	Iroquois	-	1.3909	-	0.1085
18	Centram MDA	Kirkwall	-	1.2627	-	0.0979
19	Centram MDA	Napierville	-	1.5039	-	0.1180
20	Centram MDA	Niagara Falls	-	1.3300	-	0.1035
21	Centram MDA	North Bay Junction	-	1.0696	-	0.0869
22	Centram MDA	Philipsburg	-	1.5144	-	0.1188
23	Centram MDA	Spruce	-	0.1662	-	0.0074
24	Centram MDA	St. Clair	-	1.0732	-	0.0872
25	Centram MDA	Welwyn	-	0.2500	-	0.0147
26	Centram MDA	Dawn Export	-	1.1486	-	0.0884
27	Centram MDA	Union Parkway Belt	-	1.2858	-	0.0998
28	Centram MDA	Union CDA (Amended)	-	1.2825	-	0.0995
29	Centram MDA	Union ECDA	-	1.2927	-	0.1004
30	Centram MDA	Enbridge Parkway CDA	-	1.2858	-	0.0998
31	Centram MDA	Enbridge CDA (Amended)	-	1.3217	-	0.1028
32	Centram SSDA	Empress	-	0.4454	-	0.0319
33	Centram SSDA	TransGas SSDA	-	0.1973	-	0.0101
34	Centram SSDA	Centram SSDA	-	0.0956	-	0.0012
35	Centram SSDA	Centram MDA	-	0.2500	-	0.0147
36	Centram SSDA	Centrat MDA	-	0.3191	-	0.0208
37	Centram SSDA	Union WDA	-	0.6079	-	0.0462
38	Centram SSDA	Nipigon WDA	-	0.6929	-	0.0537
39	Centram SSDA	Union NDA	-	1.1232	-	0.0916
40	Centram SSDA	Calstock NDA	-	0.8821	-	0.0704
41	Centram SSDA	Tunis NDA	-	1.0310	-	0.0835
42	Centram SSDA	GMIT NDA	-	1.1536	-	0.0943
43	Centram SSDA	Union SSMDA	-	0.9863	-	0.0795
44	Centram SSDA	Union NCDA	-	1.3980	-	0.1091
45	Centram SSDA	Union CDA	-	1.4515	-	0.1136
46	Centram SSDA	Enbridge CDA	-	1.4814	-	0.1161
47	Centram SSDA	Union EDA	-	1.5814	-	0.1244
48	Centram SSDA	Enbridge EDA	-	1.5400	-	0.1210
49	Centram SSDA	KPUC EDA	-	1.6212	-	0.1277
50	Centram SSDA	GMIT EDA	-	1.6747	-	0.1322
51	Centram SSDA	Enbridge SWDA	-	1.3112	-	0.1019
52	Centram SSDA	Union SWDA	-	1.3090	-	0.1017
53	Centram SSDA	Chippawa	-	1.4940	-	0.1171
54	Centram SSDA	Cornwall	-	1.5725	-	0.1237
55	Centram SSDA	East Hereford	-	1.7879	-	0.1416
56	Centram SSDA	Emerson 1	-	0.3311	-	0.0219
57	Centram SSDA	Emerson 2	-	0.3311	-	0.0219
58	Centram SSDA	Iroquois	-	1.5524	-	0.1220
59	Centram SSDA	Kirkwall	-	1.4252	-	0.1114
60	Centram SSDA	Napierville	-	1.6654	-	0.1314
61	Centram SSDA	Niagara Falls	-	1.4926	-	0.1170
62	Centram SSDA	North Bay Junction	-	1.2224	-	0.1003
63	Centram SSDA	Philipsburg	-	1.6760	-	0.1323
64	Centram SSDA	Spruce	-	0.3191	-	0.0208
65	Centram SSDA	St. Clair	-	1.2270	-	0.1007
66	Centram SSDA	Welwyn	-	0.0956	-	0.0012
67	Centram SSDA	Dawn Export	-	1.3112	-	0.1019
68	Centram SSDA	Union Parkway Belt	-	1.4483	-	0.1133
69	Centram SSDA	Union CDA (Amended)	-	1.4451	-	0.1131
70	Centram SSDA	Union ECDA	-	1.4553	-	0.1139
71	Centram SSDA	Enbridge Parkway CDA	-	1.4483	-	0.1133
72	Centram SSDA	Enbridge CDA (Amended)	-	1.4845	-	0.1163
73	Centrat MDA	Empress	-	0.6689	-	0.0516
74	Centrat MDA	TransGas SSDA	-	0.4207	-	0.0298
75	Centrat MDA	Centram SSDA	-	0.3191	-	0.0208
76	Centrat MDA	Centram MDA	-	0.1662	-	0.0074

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Centrat MDA	Centrat MDA	-	0.0956	-	0.0012
2	Centrat MDA	Union WDA	-	0.3844	-	0.0266
3	Centrat MDA	Nipigon WDA	-	0.4695	-	0.0341
4	Centrat MDA	Union NDA	-	0.8998	-	0.0719
5	Centrat MDA	Calstock NDA	-	0.6586	-	0.0507
6	Centrat MDA	Tunis NDA	-	0.8076	-	0.0638
7	Centrat MDA	GMIT NDA	-	0.9302	-	0.0746
8	Centrat MDA	Union SSMDA	-	0.8319	-	0.0659
9	Centrat MDA	Union NCDA	-	1.1619	-	0.0895
10	Centrat MDA	Union CDA	-	1.2808	-	0.0994
11	Centrat MDA	Enbridge CDA	-	1.2655	-	0.0981
12	Centrat MDA	Union EDA	-	1.3474	-	0.1049
13	Centrat MDA	Enbridge EDA	-	1.3043	-	0.1013
14	Centrat MDA	KPUC EDA	-	1.3851	-	0.1081
15	Centrat MDA	GMIT EDA	-	1.4385	-	0.1125
16	Centrat MDA	Enbridge SWDA	-	1.1480	-	0.0883
17	Centrat MDA	Union SWDA	-	1.1459	-	0.0881
18	Centrat MDA	Chippawa	-	1.3309	-	0.1035
19	Centrat MDA	Cornwall	-	1.3364	-	0.1040
20	Centrat MDA	East Hereford	-	1.5517	-	0.1219
21	Centrat MDA	Emerson 1	-	0.1768	-	0.0083
22	Centrat MDA	Emerson 2	-	0.1768	-	0.0083
23	Centrat MDA	Iroquois	-	1.3163	-	0.1023
24	Centrat MDA	Kirkwall	-	1.2621	-	0.0978
25	Centrat MDA	Napierville	-	1.4293	-	0.1117
26	Centrat MDA	Niagara Falls	-	1.3294	-	0.1034
27	Centrat MDA	North Bay Junction	-	0.9990	-	0.0806
28	Centrat MDA	Philipsburg	-	1.4398	-	0.1126
29	Centrat MDA	Spruce	-	0.0956	-	0.0012
30	Centrat MDA	St. Clair	-	1.0726	-	0.0871
31	Centrat MDA	Welwyn	-	0.3191	-	0.0208
32	Centrat MDA	Dawn Export	-	1.1480	-	0.0883
33	Centrat MDA	Union Parkway Belt	-	1.2731	-	0.0987
34	Centrat MDA	Union CDA (Amended)	-	1.2819	-	0.0995
35	Centrat MDA	Union ECDA	-	1.2801	-	0.0993
36	Centrat MDA	Enbridge Parkway CDA	-	1.2731	-	0.0987
37	Centrat MDA	Enbridge CDA (Amended)	-	1.2648	-	0.0980
38	Chippawa	Empress	73.07330	2.4024	4.49901	0.1479
39	Chippawa	TransGas SSDA	62.79034	2.0643	3.83482	0.1261
40	Chippawa	Centram SSDA	58.57794	1.9259	3.56272	0.1171
41	Chippawa	Centram MDA	52.20504	1.7163	3.15110	0.1036
42	Chippawa	Centrat MDA	52.18162	1.7156	3.14960	0.1035
43	Chippawa	Union WDA	42.13773	1.3854	2.50084	0.0822
44	Chippawa	Nipigon WDA	37.62876	1.2371	2.20959	0.0726
45	Chippawa	Union NDA	19.79578	0.6508	1.05773	0.0348
46	Chippawa	Calstock NDA	29.78917	0.9794	1.70323	0.0560
47	Chippawa	Tunis NDA	23.61702	0.7765	1.30456	0.0429
48	Chippawa	GMIT NDA	19.03049	0.6257	1.00832	0.0332
49	Chippawa	Union SSMDA	25.55426	0.8401	1.42969	0.0470
50	Chippawa	Union NCDA	11.52731	0.3790	0.52365	0.0172
51	Chippawa	Union CDA	6.51525	0.2142	0.19991	0.0066
52	Chippawa	Enbridge CDA	8.12855	0.2672	0.30416	0.0100
53	Chippawa	Union EDA	14.81079	0.4869	0.73573	0.0242
54	Chippawa	Enbridge EDA	18.06780	0.5940	0.94613	0.0311
55	Chippawa	KPUC EDA	14.36823	0.4724	0.70715	0.0232
56	Chippawa	GMIT EDA	22.29268	0.7329	1.21903	0.0401
57	Chippawa	Enbridge SWDA	11.13098	0.3660	0.49807	0.0164
58	Chippawa	Union SWDA	11.21615	0.3688	0.50358	0.0166
59	Chippawa	Chippawa	3.96268	0.1303	0.03504	0.0012
60	Chippawa	Cornwall	18.28772	0.6012	0.96031	0.0316
61	Chippawa	East Hereford	26.73047	0.8788	1.50566	0.0495
62	Chippawa	Emerson 1	48.81845	1.6050	2.93234	0.0964
63	Chippawa	Emerson 2	48.81845	1.6050	2.93234	0.0964
64	Chippawa	Iroquois	17.28366	0.5682	0.89546	0.0294
65	Chippawa	Kirkwall	6.65943	0.2189	0.20922	0.0069
66	Chippawa	Napierville	21.92890	0.7210	1.19553	0.0393
67	Chippawa	Niagara Falls	4.87883	0.1604	0.09425	0.0031
68	Chippawa	North Bay Junction	15.68527	0.5157	0.79223	0.0260
69	Chippawa	Philipsburg	22.34287	0.7346	1.22226	0.0402
70	Chippawa	Spruce	52.18162	1.7156	3.14960	0.1035
71	Chippawa	St. Clair	11.69582	0.3845	0.53455	0.0176
72	Chippawa	Welwyn	58.57794	1.9259	3.56272	0.1171
73	Chippawa	Dawn Export	11.13098	0.3660	0.49807	0.0164
74	Chippawa	Union Parkway Belt	7.16465	0.2356	0.24188	0.0080
75	Chippawa	Union CDA (Amended)	5.88106	0.1934	0.15897	0.0052
76	Chippawa	Union ECDA	6.89150	0.2266	0.22424	0.0074

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Chippawa	Enbridge Parkway CDA	7.16465	0.2356	0.24188	0.0080
2	Chippawa	Enbridge CDA (Amended)	8.21919	0.2702	0.30999	0.0102
3	Cornwall	Empress	76.15299	2.5037	4.69793	0.1545
4	Cornwall	TransGas SSDA	65.87033	2.1656	4.03375	0.1326
5	Cornwall	Centram SSDA	61.65732	2.0271	3.76164	0.1237
6	Cornwall	Centram MDA	55.32214	1.8188	3.35244	0.1102
7	Cornwall	Centrat MDA	52.39818	1.7227	3.16358	0.1040
8	Cornwall	Union WDA	41.41473	1.3616	2.45415	0.0807
9	Cornwall	Nipigon WDA	36.90606	1.2134	2.16293	0.0711
10	Cornwall	Union NDA	19.09133	0.6277	1.01224	0.0333
11	Cornwall	Calstock NDA	29.06708	0.9556	1.65658	0.0545
12	Cornwall	Tunis NDA	22.89493	0.7527	1.25790	0.0414
13	Cornwall	GMIT NDA	18.30840	0.6019	0.96166	0.0316
14	Cornwall	Union SSMDA	34.88609	1.1469	2.03243	0.0668
15	Cornwall	Union NCDA	16.94908	0.5572	0.87384	0.0287
16	Cornwall	Union CDA	15.79568	0.5193	0.79938	0.0263
17	Cornwall	Enbridge CDA	14.44366	0.4749	0.71203	0.0234
18	Cornwall	Union EDA	7.47915	0.2459	0.26221	0.0086
19	Cornwall	Enbridge EDA	6.94169	0.2282	0.22747	0.0075
20	Cornwall	KPUC EDA	7.88218	0.2591	0.28820	0.0095
21	Cornwall	GMIT EDA	7.96825	0.2620	0.29379	0.0097
22	Cornwall	Enbridge SWDA	20.46281	0.6728	1.10082	0.0362
23	Cornwall	Union SWDA	20.54828	0.6756	1.10633	0.0364
24	Cornwall	Chippawa	18.28772	0.6012	0.96031	0.0316
25	Cornwall	Cornwall	3.96268	0.1303	0.03504	0.0012
26	Cornwall	East Hereford	12.40544	0.4079	0.58039	0.0191
27	Cornwall	Emerson 1	55.76196	1.8333	3.38084	0.1112
28	Cornwall	Emerson 2	55.76196	1.8333	3.38084	0.1112
29	Cornwall	Iroquois	5.18574	0.1705	0.11406	0.0037
30	Cornwall	Kirkwall	15.99095	0.5257	0.81198	0.0267
31	Cornwall	Napierville	7.60386	0.2500	0.27026	0.0089
32	Cornwall	Niagara Falls	18.23114	0.5994	0.95665	0.0315
33	Cornwall	North Bay Junction	14.96287	0.4919	0.74556	0.0245
34	Cornwall	Philipsburg	8.01783	0.2636	0.29699	0.0098
35	Cornwall	Spruce	52.39818	1.7227	3.16358	0.1040
36	Cornwall	St. Clair	21.02795	0.6913	1.13731	0.0374
37	Cornwall	Welwyn	61.65732	2.0271	3.76164	0.1237
38	Cornwall	Dawn Export	20.46281	0.6728	1.10082	0.0362
39	Cornwall	Union Parkway Belt	15.08515	0.4960	0.75348	0.0248
40	Cornwall	Union CDA (Amended)	16.53176	0.5435	0.84690	0.0278
41	Cornwall	Union ECDA	15.35829	0.5049	0.77110	0.0254
42	Cornwall	Enbridge Parkway CDA	15.08515	0.4960	0.75348	0.0248
43	Cornwall	Enbridge CDA (Amended)	14.38374	0.4729	0.70816	0.0233
44	East Hereford	Empress	84.59575	2.7812	5.24327	0.1724
45	East Hereford	TransGas SSDA	74.31278	2.4432	4.57908	0.1505
46	East Hereford	Centram SSDA	70.10068	2.3047	4.30700	0.1416
47	East Hereford	Centram MDA	63.76550	2.0964	3.89782	0.1281
48	East Hereford	Centrat MDA	60.84124	2.0003	3.70893	0.1219
49	East Hereford	Union WDA	49.85809	1.6392	2.99951	0.0986
50	East Hereford	Nipigon WDA	45.34912	1.4909	2.70827	0.0890
51	East Hereford	Union NDA	27.53378	0.9052	1.55755	0.0512
52	East Hereford	Calstock NDA	37.51014	1.2332	2.20192	0.0724
53	East Hereford	Tunis NDA	31.33799	1.0303	1.80326	0.0593
54	East Hereford	GMIT NDA	26.75146	0.8795	1.50700	0.0495
55	East Hereford	Union SSMDA	43.32915	1.4245	2.57779	0.0847
56	East Hereford	Union NCDA	25.39183	0.8348	1.41920	0.0467
57	East Hereford	Union CDA	24.23874	0.7969	1.34472	0.0442
58	East Hereford	Enbridge CDA	22.88702	0.7525	1.25739	0.0413
59	East Hereford	Union EDA	15.92282	0.5235	0.80758	0.0266
60	East Hereford	Enbridge EDA	15.35494	0.5048	0.77090	0.0253
61	East Hereford	KPUC EDA	16.32493	0.5367	0.83355	0.0274
62	East Hereford	GMIT EDA	11.06467	0.3638	0.49378	0.0162
63	East Hereford	Enbridge SWDA	28.90587	0.9503	1.64617	0.0541
64	East Hereford	Union SWDA	28.99104	0.9531	1.65168	0.0543
65	East Hereford	Chippawa	26.73047	0.8788	1.50566	0.0495
66	East Hereford	Cornwall	12.40544	0.4079	0.58039	0.0191
67	East Hereford	East Hereford	3.96268	0.1303	0.03504	0.0012
68	East Hereford	Emerson 1	64.20502	2.1109	3.92618	0.1291
69	East Hereford	Emerson 2	64.20502	2.1109	3.92618	0.1291
70	East Hereford	Iroquois	13.62880	0.4481	0.65940	0.0217
71	East Hereford	Kirkwall	24.43371	0.8033	1.35732	0.0446
72	East Hereford	Napierville	13.18289	0.4334	0.63059	0.0207
73	East Hereford	Niagara Falls	26.67390	0.8770	1.50200	0.0494
74	East Hereford	North Bay Junction	23.40623	0.7695	1.29092	0.0424
75	East Hereford	Philipsburg	13.59625	0.4470	0.65732	0.0216
76	East Hereford	Spruce	60.84124	2.0003	3.70893	0.1219

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	East Hereford	St. Clair	29.47071	0.9689	1.68265	0.0553
2	East Hereford	Welwyn	70.10068	2.3047	4.30700	0.1416
3	East Hereford	Dawn Export	28.90587	0.9503	1.64617	0.0541
4	East Hereford	Union Parkway Belt	23.52820	0.7735	1.29882	0.0427
5	East Hereford	Union CDA (Amended)	24.97482	0.8211	1.39224	0.0458
6	East Hereford	Union ECDA	23.80104	0.7825	1.31646	0.0433
7	East Hereford	Enbridge Parkway CDA	23.52820	0.7735	1.29882	0.0427
8	East Hereford	Enbridge CDA (Amended)	22.82710	0.7505	1.25354	0.0412
9	Emerson 1	Empress	20.71162	0.6809	1.60171	0.0527
10	Emerson 1	TransGas SSDA	13.16433	0.4328	0.93755	0.0308
11	Emerson 1	Centram SSDA	10.07187	0.3311	0.66542	0.0219
12	Emerson 1	Centram MDA	5.39470	0.1774	0.25380	0.0083
13	Emerson 1	Centrat MDA	5.37767	0.1768	0.25230	0.0083
14	Emerson 1	Union WDA	14.16200	0.4656	1.02535	0.0337
15	Emerson 1	Nipigon WDA	16.74833	0.5506	1.25295	0.0412
16	Emerson 1	Union NDA	29.83784	0.9810	2.40479	0.0791
17	Emerson 1	Calstock NDA	22.50255	0.7398	1.75931	0.0578
18	Emerson 1	Tunis NDA	27.03312	0.8888	2.15798	0.0709
19	Emerson 1	GMIT NDA	30.76159	1.0113	2.48607	0.0817
20	Emerson 1	Union SSMDA	22.83531	0.7508	1.78858	0.0588
21	Emerson 1	Union NCDA	37.94662	1.2476	2.93865	0.0966
22	Emerson 1	Union CDA	36.57756	1.2026	2.82463	0.0929
23	Emerson 1	Enbridge CDA	37.70420	1.2396	2.91844	0.0959
24	Emerson 1	Union EDA	41.87432	1.3767	3.26567	0.1074
25	Emerson 1	Enbridge EDA	41.98382	1.3803	3.27477	0.1077
26	Emerson 1	KPUC EDA	42.06990	1.3831	3.28194	0.1079
27	Emerson 1	GMIT EDA	46.36595	1.5244	3.63965	0.1197
28	Emerson 1	Enbridge SWDA	32.31010	1.0623	2.46932	0.0812
29	Emerson 1	Union SWDA	32.24380	1.0601	2.46381	0.0810
30	Emerson 1	Chippawa	37.87118	1.2451	2.93234	0.0964
31	Emerson 1	Cornwall	43.25767	1.4222	3.38084	0.1112
32	Emerson 1	East Hereford	49.80729	1.6375	3.92618	0.1291
33	Emerson 1	Emerson 1	2.90844	0.0956	0.03504	0.0012
34	Emerson 1	Emerson 2	2.90844	0.0956	0.03504	0.0012
35	Emerson 1	Iroquois	42.64630	1.4021	3.32995	0.1095
36	Emerson 1	Kirkwall	35.77913	1.1763	2.75817	0.0907
37	Emerson 1	Napierville	46.08247	1.5150	3.61606	0.1189
38	Emerson 1	Niagara Falls	37.82708	1.2436	2.92869	0.0963
39	Emerson 1	North Bay Junction	32.85517	1.0802	2.67032	0.0878
40	Emerson 1	Philipsburg	46.40367	1.5256	3.64279	0.1198
41	Emerson 1	Spruce	5.37767	0.1768	0.25230	0.0083
42	Emerson 1	St. Clair	30.15660	0.9915	2.43284	0.0800
43	Emerson 1	Welwyn	10.07187	0.3311	0.66542	0.0219
44	Emerson 1	Dawn Export	32.31010	1.0623	2.46932	0.0812
45	Emerson 1	Union Parkway Belt	36.48175	1.1994	2.81666	0.0926
46	Emerson 1	Union CDA (Amended)	36.38259	1.1961	2.80841	0.0923
47	Emerson 1	Union ECDA	36.69315	1.2064	2.83429	0.0932
48	Emerson 1	Enbridge Parkway CDA	36.48175	1.1994	2.81666	0.0926
49	Emerson 1	Enbridge CDA (Amended)	37.81826	1.2433	2.92797	0.0963
50	Emerson 2	Empress	20.71162	0.6809	1.60171	0.0527
51	Emerson 2	TransGas SSDA	13.16433	0.4328	0.93755	0.0308
52	Emerson 2	Centram SSDA	10.07187	0.3311	0.66542	0.0219
53	Emerson 2	Centram MDA	5.39470	0.1774	0.25380	0.0083
54	Emerson 2	Centrat MDA	5.37767	0.1768	0.25230	0.0083
55	Emerson 2	Union WDA	14.16200	0.4656	1.02535	0.0337
56	Emerson 2	Nipigon WDA	16.74833	0.5506	1.25295	0.0412
57	Emerson 2	Union NDA	29.83784	0.9810	2.40479	0.0791
58	Emerson 2	Calstock NDA	22.50255	0.7398	1.75931	0.0578
59	Emerson 2	Tunis NDA	27.03312	0.8888	2.15798	0.0709
60	Emerson 2	GMIT NDA	30.76159	1.0113	2.48607	0.0817
61	Emerson 2	Union SSMDA	22.83531	0.7508	1.78858	0.0588
62	Emerson 2	Union NCDA	37.94662	1.2476	2.93865	0.0966
63	Emerson 2	Union CDA	36.57756	1.2026	2.82463	0.0929
64	Emerson 2	Enbridge CDA	37.70420	1.2396	2.91844	0.0959
65	Emerson 2	Union EDA	41.87432	1.3767	3.26567	0.1074
66	Emerson 2	Enbridge EDA	41.98382	1.3803	3.27477	0.1077
67	Emerson 2	KPUC EDA	42.06990	1.3831	3.28194	0.1079
68	Emerson 2	GMIT EDA	46.36595	1.5244	3.63965	0.1197
69	Emerson 2	Enbridge SWDA	32.31010	1.0623	2.46932	0.0812
70	Emerson 2	Union SWDA	32.24380	1.0601	2.46381	0.0810
71	Emerson 2	Chippawa	37.87118	1.2451	2.93234	0.0964
72	Emerson 2	Cornwall	43.25767	1.4222	3.38084	0.1112
73	Emerson 2	East Hereford	49.80729	1.6375	3.92618	0.1291
74	Emerson 2	Emerson 1	2.90844	0.0956	0.03504	0.0012
75	Emerson 2	Emerson 2	2.90844	0.0956	0.03504	0.0012
76	Emerson 2	Iroquois	42.64630	1.4021	3.32995	0.1095



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1	Emerson 2	Kirkwall	35.77913	1.1763	2.75817	0.0907
2	Emerson 2	Napierville	46.08247	1.5150	3.61606	0.1189
3	Emerson 2	Niagara Falls	37.82708	1.2436	2.92869	0.0963
4	Emerson 2	North Bay Junction	32.85517	1.0802	2.67032	0.0878
5	Emerson 2	Philipsburg	46.40367	1.5256	3.64279	0.1198
6	Emerson 2	Spruce	5.37767	0.1768	0.25230	0.0083
7	Emerson 2	St. Clair	30.15660	0.9915	2.43284	0.0800
8	Emerson 2	Welwyn	10.07187	0.3311	0.66542	0.0219
9	Emerson 2	Dawn Export	32.31010	1.0623	2.46932	0.0812
10	Emerson 2	Union Parkway Belt	36.48175	1.1994	2.81666	0.0926
11	Emerson 2	Union CDA (Amended)	36.38259	1.1961	2.80841	0.0923
12	Emerson 2	Union ECDA	36.69315	1.2064	2.83429	0.0932
13	Emerson 2	Enbridge Parkway CDA	36.48175	1.1994	2.81666	0.0926
14	Emerson 2	Enbridge CDA (Amended)	37.81826	1.2433	2.92797	0.0963
15	Enbridge CDA	Empress	-	2.3862	-	0.1469
16	Enbridge CDA	TransGas SSDA	-	2.0480	-	0.1250
17	Enbridge CDA	Centram SSDA	-	1.9096	-	0.1161
18	Enbridge CDA	Centram MDA	-	1.6996	-	0.1025
19	Enbridge CDA	Centrat MDA	-	1.6313	-	0.0981
20	Enbridge CDA	Union WDA	-	1.2751	-	0.0751
21	Enbridge CDA	Nipigon WDA	-	1.1269	-	0.0655
22	Enbridge CDA	Union NDA	-	0.5405	-	0.0277
23	Enbridge CDA	Calstock NDA	-	0.8692	-	0.0489
24	Enbridge CDA	Tunis NDA	-	0.6663	-	0.0358
25	Enbridge CDA	GMIT NDA	-	0.5155	-	0.0260
26	Enbridge CDA	Union SSMDA	-	0.8331	-	0.0465
27	Enbridge CDA	Union NCDA	-	0.2688	-	0.0101
28	Enbridge CDA	Union CDA	-	0.2057	-	0.0060
29	Enbridge CDA	Enbridge CDA	-	0.1303	-	0.0012
30	Enbridge CDA	Union EDA	-	0.3605	-	0.0160
31	Enbridge CDA	Enbridge EDA	-	0.4675	-	0.0229
32	Enbridge CDA	KPUC EDA	-	0.3460	-	0.0151
33	Enbridge CDA	GMIT EDA	-	0.6063	-	0.0319
34	Enbridge CDA	Enbridge SWDA	-	0.3589	-	0.0159
35	Enbridge CDA	Union SWDA	-	0.3617	-	0.0161
36	Enbridge CDA	Chippawa	-	0.2672	-	0.0100
37	Enbridge CDA	Cornwall	-	0.4749	-	0.0234
38	Enbridge CDA	East Hereford	-	0.7525	-	0.0413
39	Enbridge CDA	Emerson 1	-	1.5979	-	0.0959
40	Enbridge CDA	Emerson 2	-	1.5979	-	0.0959
41	Enbridge CDA	Iroquois	-	0.4419	-	0.0213
42	Enbridge CDA	Kirkwall	-	0.2119	-	0.0064
43	Enbridge CDA	Napierville	-	0.5946	-	0.0311
44	Enbridge CDA	Niagara Falls	-	0.2648	-	0.0098
45	Enbridge CDA	North Bay Junction	-	0.4056	-	0.0189
46	Enbridge CDA	Philipsburg	-	0.6082	-	0.0320
47	Enbridge CDA	Spruce	-	1.6313	-	0.0981
48	Enbridge CDA	St. Clair	-	0.3775	-	0.0171
49	Enbridge CDA	Welwyn	-	1.9096	-	0.1161
50	Enbridge CDA	Dawn Export	-	0.3590	-	0.0159
51	Enbridge CDA	Union Parkway Belt	-	0.1896	-	0.0050
52	Enbridge CDA	Union CDA (Amended)	-	0.2226	-	0.0071
53	Enbridge CDA	Union ECDA	-	0.1957	-	0.0054
54	Enbridge CDA	Enbridge Parkway CDA	-	0.1896	-	0.0050
55	Enbridge CDA	Enbridge CDA (Amended)	-	0.1923	-	0.0052
56	Enbridge Parkway CDA	Empress	-	2.3435	-	0.1441
57	Enbridge Parkway CDA	TransGas SSDA	-	2.0055	-	0.1223
58	Enbridge Parkway CDA	Centram SSDA	-	1.8670	-	0.1133
59	Enbridge Parkway CDA	Centram MDA	-	1.6574	-	0.0998
60	Enbridge Parkway CDA	Centrat MDA	-	1.6412	-	0.0987
61	Enbridge Parkway CDA	Union WDA	-	1.2801	-	0.0754
62	Enbridge Parkway CDA	Nipigon WDA	-	1.1318	-	0.0658
63	Enbridge Parkway CDA	Union NDA	-	0.5456	-	0.0280
64	Enbridge Parkway CDA	Calstock NDA	-	0.8741	-	0.0492
65	Enbridge Parkway CDA	Tunis NDA	-	0.6712	-	0.0361
66	Enbridge Parkway CDA	GMIT NDA	-	0.5204	-	0.0263
67	Enbridge Parkway CDA	Union SSMDA	-	0.7813	-	0.0432
68	Enbridge Parkway CDA	Union NCDA	-	0.2737	-	0.0104
69	Enbridge Parkway CDA	Union CDA	-	0.1536	-	0.0027
70	Enbridge Parkway CDA	Enbridge CDA	-	0.1896	-	0.0050
71	Enbridge Parkway CDA	Union EDA	-	0.3817	-	0.0174
72	Enbridge Parkway CDA	Enbridge EDA	-	0.4888	-	0.0243
73	Enbridge Parkway CDA	KPUC EDA	-	0.3671	-	0.0164
74	Enbridge Parkway CDA	GMIT EDA	-	0.6277	-	0.0333
75	Enbridge Parkway CDA	Enbridge SWDA	-	0.3071	-	0.0126
76	Enbridge Parkway CDA	Union SWDA	-	0.3099	-	0.0128

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Enbridge Parkway CDA	Chippawa	-	0.2356	-	0.0080
2	Enbridge Parkway CDA	Cornwall	-	0.4960	-	0.0248
3	Enbridge Parkway CDA	East Hereford	-	0.7735	-	0.0427
4	Enbridge Parkway CDA	Emerson 1	-	1.5461	-	0.0926
5	Enbridge Parkway CDA	Emerson 2	-	1.5461	-	0.0926
6	Enbridge Parkway CDA	Iroquois	-	0.4629	-	0.0226
7	Enbridge Parkway CDA	Kirkwall	-	0.1601	-	0.0031
8	Enbridge Parkway CDA	Napierville	-	0.6157	-	0.0325
9	Enbridge Parkway CDA	Niagara Falls	-	0.2337	-	0.0078
10	Enbridge Parkway CDA	North Bay Junction	-	0.4104	-	0.0192
11	Enbridge Parkway CDA	Philipsburg	-	0.6293	-	0.0334
12	Enbridge Parkway CDA	Spruce	-	1.6412	-	0.0987
13	Enbridge Parkway CDA	St. Clair	-	0.3256	-	0.0138
14	Enbridge Parkway CDA	Welwyn	-	1.8670	-	0.1133
15	Enbridge Parkway CDA	Dawn Export	-	0.3071	-	0.0126
16	Enbridge Parkway CDA	Union Parkway Belt	-	0.1303	-	0.0012
17	Enbridge Parkway CDA	Union CDA (Amended)	-	0.1778	-	0.0042
18	Enbridge Parkway CDA	Union ECDA	-	0.1393	-	0.0017
19	Enbridge Parkway CDA	Enbridge Parkway CDA	-	0.1303	-	0.0012
20	Enbridge Parkway CDA	Enbridge CDA (Amended)	-	0.1952	-	0.0053
21	Enbridge CDA (Amended)	Empress	-	2.3902	-	0.1471
22	Enbridge CDA (Amended)	TransGas SSDA	-	2.0520	-	0.1253
23	Enbridge CDA (Amended)	Centram SSDA	-	1.9136	-	0.1163
24	Enbridge CDA (Amended)	Centram MDA	-	1.7038	-	0.1028
25	Enbridge CDA (Amended)	Centrat MDA	-	1.6304	-	0.0980
26	Enbridge CDA (Amended)	Union WDA	-	1.2747	-	0.0751
27	Enbridge CDA (Amended)	Nipigon WDA	-	1.1265	-	0.0655
28	Enbridge CDA (Amended)	Union NDA	-	0.5401	-	0.0276
29	Enbridge CDA (Amended)	Calstock NDA	-	0.8688	-	0.0489
30	Enbridge CDA (Amended)	Tunis NDA	-	0.6658	-	0.0357
31	Enbridge CDA (Amended)	GMIT NDA	-	0.5150	-	0.0260
32	Enbridge CDA (Amended)	Union SSMDA	-	0.8379	-	0.0469
33	Enbridge CDA (Amended)	Union NCDA	-	0.2683	-	0.0101
34	Enbridge CDA (Amended)	Union CDA	-	0.2105	-	0.0063
35	Enbridge CDA (Amended)	Enbridge CDA	-	0.1923	-	0.0052
36	Enbridge CDA (Amended)	Union EDA	-	0.3584	-	0.0159
37	Enbridge CDA (Amended)	Enbridge EDA	-	0.4656	-	0.0228
38	Enbridge CDA (Amended)	KPUC EDA	-	0.3441	-	0.0150
39	Enbridge CDA (Amended)	GMIT EDA	-	0.6044	-	0.0318
40	Enbridge CDA (Amended)	Enbridge SWDA	-	0.3637	-	0.0162
41	Enbridge CDA (Amended)	Union SWDA	-	0.3665	-	0.0164
42	Enbridge CDA (Amended)	Chippawa	-	0.2702	-	0.0102
43	Enbridge CDA (Amended)	Cornwall	-	0.4729	-	0.0233
44	Enbridge CDA (Amended)	East Hereford	-	0.7505	-	0.0412
45	Enbridge CDA (Amended)	Emerson 1	-	1.6028	-	0.0963
46	Enbridge CDA (Amended)	Emerson 2	-	1.6028	-	0.0963
47	Enbridge CDA (Amended)	Iroquois	-	0.4399	-	0.0212
48	Enbridge CDA (Amended)	Kirkwall	-	0.2168	-	0.0067
49	Enbridge CDA (Amended)	Napierville	-	0.5926	-	0.0310
50	Enbridge CDA (Amended)	Niagara Falls	-	0.2677	-	0.0100
51	Enbridge CDA (Amended)	North Bay Junction	-	0.4051	-	0.0189
52	Enbridge CDA (Amended)	Philipsburg	-	0.6062	-	0.0319
53	Enbridge CDA (Amended)	Spruce	-	1.6304	-	0.0980
54	Enbridge CDA (Amended)	St. Clair	-	0.3824	-	0.0174
55	Enbridge CDA (Amended)	Welwyn	-	1.9136	-	0.1163
56	Enbridge CDA (Amended)	Dawn Export	-	0.3638	-	0.0162
57	Enbridge CDA (Amended)	Union Parkway Belt	-	0.1952	-	0.0053
58	Enbridge CDA (Amended)	Union CDA (Amended)	-	0.2268	-	0.0074
59	Enbridge CDA (Amended)	Union ECDA	-	0.2009	-	0.0057
60	Enbridge CDA (Amended)	Enbridge Parkway CDA	-	0.1952	-	0.0053
61	Enbridge CDA (Amended)	Enbridge CDA (Amended)	-	0.1303	-	0.0012
62	Enbridge EDA	Empress	-	2.4617	-	0.1517
63	Enbridge EDA	TransGas SSDA	-	2.1236	-	0.1299
64	Enbridge EDA	Centram SSDA	-	1.9851	-	0.1210
65	Enbridge EDA	Centram MDA	-	1.7766	-	0.1075
66	Enbridge EDA	Centrat MDA	-	1.6813	-	0.1013
67	Enbridge EDA	Union WDA	-	1.3202	-	0.0780
68	Enbridge EDA	Nipigon WDA	-	1.1720	-	0.0684
69	Enbridge EDA	Union NDA	-	0.5861	-	0.0306
70	Enbridge EDA	Calstock NDA	-	0.9142	-	0.0518
71	Enbridge EDA	Tunis NDA	-	0.7113	-	0.0387
72	Enbridge EDA	GMIT NDA	-	0.5606	-	0.0289
73	Enbridge EDA	Union SSMDA	-	1.1397	-	0.0664
74	Enbridge EDA	Union NCDA	-	0.5238	-	0.0266
75	Enbridge EDA	Union CDA	-	0.5121	-	0.0258
76	Enbridge EDA	Enbridge CDA	-	0.4675	-	0.0229



Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Enbridge EDA	Union EDA	-	0.2679	-	0.0100
2	Enbridge EDA	Enbridge EDA	-	0.1303	-	0.0012
3	Enbridge EDA	KPUC EDA	-	0.2746	-	0.0105
4	Enbridge EDA	GMIT EDA	-	0.3588	-	0.0159
5	Enbridge EDA	Enbridge SWDA	-	0.6655	-	0.0357
6	Enbridge EDA	Union SWDA	-	0.6684	-	0.0359
7	Enbridge EDA	Chippawa	-	0.5940	-	0.0311
8	Enbridge EDA	Cornwall	-	0.2282	-	0.0075
9	Enbridge EDA	East Hereford	-	0.5048	-	0.0253
10	Enbridge EDA	Emerson 1	-	1.7793	-	0.1077
11	Enbridge EDA	Emerson 2	-	1.7793	-	0.1077
12	Enbridge EDA	Iroquois	-	0.2071	-	0.0061
13	Enbridge EDA	Kirkwall	-	0.5185	-	0.0262
14	Enbridge EDA	Napierville	-	0.3470	-	0.0151
15	Enbridge EDA	Niagara Falls	-	0.5922	-	0.0310
16	Enbridge EDA	North Bay Junction	-	0.4506	-	0.0218
17	Enbridge EDA	Philipsburg	-	0.3606	-	0.0160
18	Enbridge EDA	Spruce	-	1.6813	-	0.1013
19	Enbridge EDA	St. Clair	-	0.6841	-	0.0369
20	Enbridge EDA	Welwyn	-	1.9851	-	0.1210
21	Enbridge EDA	Dawn Export	-	0.6655	-	0.0357
22	Enbridge EDA	Union Parkway Belt	-	0.4888	-	0.0243
23	Enbridge EDA	Union CDA (Amended)	-	0.5363	-	0.0274
24	Enbridge EDA	Union ECDA	-	0.4977	-	0.0249
25	Enbridge EDA	Enbridge Parkway CDA	-	0.4888	-	0.0243
26	Enbridge EDA	Enbridge CDA (Amended)	-	0.4656	-	0.0228
27	GMIT EDA	Empress	-	2.6354	-	0.1630
28	GMIT EDA	TransGas SSDA	-	2.2972	-	0.1411
29	GMIT EDA	Centram SSDA	-	2.1588	-	0.1322
30	GMIT EDA	Centram MDA	-	1.9504	-	0.1187
31	GMIT EDA	Centrat MDA	-	1.8544	-	0.1125
32	GMIT EDA	Union WDA	-	1.4933	-	0.0892
33	GMIT EDA	Nipigon WDA	-	1.3451	-	0.0796
34	GMIT EDA	Union NDA	-	0.7589	-	0.0418
35	GMIT EDA	Calstock NDA	-	1.0873	-	0.0630
36	GMIT EDA	Tunis NDA	-	0.8844	-	0.0499
37	GMIT EDA	GMIT NDA	-	0.7336	-	0.0401
38	GMIT EDA	Union SSMDA	-	1.2786	-	0.0753
39	GMIT EDA	Union NCDA	-	0.6888	-	0.0372
40	GMIT EDA	Union CDA	-	0.6510	-	0.0348
41	GMIT EDA	Enbridge CDA	-	0.6063	-	0.0319
42	GMIT EDA	Union EDA	-	0.3772	-	0.0171
43	GMIT EDA	Enbridge EDA	-	0.3588	-	0.0159
44	GMIT EDA	KPUC EDA	-	0.3909	-	0.0180
45	GMIT EDA	GMIT EDA	-	0.1303	-	0.0012
46	GMIT EDA	Enbridge SWDA	-	0.8045	-	0.0447
47	GMIT EDA	Union SWDA	-	0.8073	-	0.0449
48	GMIT EDA	Chippawa	-	0.7329	-	0.0401
49	GMIT EDA	Cornwall	-	0.2620	-	0.0097
50	GMIT EDA	East Hereford	-	0.3638	-	0.0162
51	GMIT EDA	Emerson 1	-	1.9650	-	0.1197
52	GMIT EDA	Emerson 2	-	1.9650	-	0.1197
53	GMIT EDA	Iroquois	-	0.3022	-	0.0123
54	GMIT EDA	Kirkwall	-	0.6574	-	0.0352
55	GMIT EDA	Napierville	-	0.2708	-	0.0102
56	GMIT EDA	Niagara Falls	-	0.7311	-	0.0400
57	GMIT EDA	North Bay Junction	-	0.6237	-	0.0330
58	GMIT EDA	Philipsburg	-	0.2824	-	0.0110
59	GMIT EDA	Spruce	-	1.8544	-	0.1125
60	GMIT EDA	St. Clair	-	0.8230	-	0.0459
61	GMIT EDA	Welwyn	-	2.1588	-	0.1322
62	GMIT EDA	Dawn Export	-	0.8045	-	0.0447
63	GMIT EDA	Union Parkway Belt	-	0.6277	-	0.0333
64	GMIT EDA	Union CDA (Amended)	-	0.6752	-	0.0364
65	GMIT EDA	Union ECDA	-	0.6366	-	0.0339
66	GMIT EDA	Enbridge Parkway CDA	-	0.6277	-	0.0333
67	GMIT EDA	Enbridge CDA (Amended)	-	0.6044	-	0.0318
68	GMIT NDA	Empress	-	1.5034	-	0.1250
69	GMIT NDA	TransGas SSDA	-	1.2553	-	0.1032
70	GMIT NDA	Centram SSDA	-	1.1536	-	0.0943
71	GMIT NDA	Centram MDA	-	1.0008	-	0.0808
72	GMIT NDA	Centrat MDA	-	0.9302	-	0.0746
73	GMIT NDA	Union WDA	-	0.6651	-	0.0513
74	GMIT NDA	Nipigon WDA	-	0.5563	-	0.0417
75	GMIT NDA	Union NDA	-	0.1905	-	0.0095
76	GMIT NDA	Calstock NDA	-	0.3671	-	0.0250

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	GMIT NDA	Tunis NDA	-	0.2182	-	0.0119
2	GMIT NDA	GMIT NDA	-	0.0956	-	0.0012
3	GMIT NDA	Union SSMDA	-	0.8598	-	0.0684
4	GMIT NDA	Union NCDA	-	0.2924	-	0.0171
5	GMIT NDA	Union CDA	-	0.4218	-	0.0279
6	GMIT NDA	Enbridge CDA	-	0.3999	-	0.0260
7	GMIT NDA	Union EDA	-	0.4780	-	0.0325
8	GMIT NDA	Enbridge EDA	-	0.4349	-	0.0289
9	GMIT NDA	KPUC EDA	-	0.5156	-	0.0357
10	GMIT NDA	GMIT EDA	-	0.5691	-	0.0401
11	GMIT NDA	Enbridge SWDA	-	0.5409	-	0.0378
12	GMIT NDA	Union SWDA	-	0.5430	-	0.0380
13	GMIT NDA	Chippawa	-	0.4854	-	0.0332
14	GMIT NDA	Cornwall	-	0.4669	-	0.0316
15	GMIT NDA	East Hereford	-	0.6823	-	0.0495
16	GMIT NDA	Emerson 1	-	1.0113	-	0.0817
17	GMIT NDA	Emerson 2	-	1.0113	-	0.0817
18	GMIT NDA	Iroquois	-	0.4469	-	0.0299
19	GMIT NDA	Kirkwall	-	0.4268	-	0.0283
20	GMIT NDA	Napierville	-	0.5598	-	0.0393
21	GMIT NDA	Niagara Falls	-	0.4839	-	0.0330
22	GMIT NDA	North Bay Junction	-	0.1764	-	0.0083
23	GMIT NDA	Philipsburg	-	0.5704	-	0.0402
24	GMIT NDA	Spruce	-	0.9302	-	0.0746
25	GMIT NDA	St. Clair	-	0.5254	-	0.0390
26	GMIT NDA	Welwyn	-	1.1536	-	0.0943
27	GMIT NDA	Dawn Export	-	0.5409	-	0.0378
28	GMIT NDA	Union Parkway Belt	-	0.4037	-	0.0263
29	GMIT NDA	Union CDA (Amended)	-	0.4406	-	0.0294
30	GMIT NDA	Union ECDA	-	0.4107	-	0.0269
31	GMIT NDA	Enbridge Parkway CDA	-	0.4037	-	0.0263
32	GMIT NDA	Enbridge CDA (Amended)	-	0.3995	-	0.0260
33	Grand Coulee	Empress	9.41700	0.3096	0.60778	0.0200
34	Grand Coulee	TransGas SSDA	4.13606	0.1360	0.14307	0.0047
35	Grand Coulee	Centram SSDA	7.03994	0.2315	0.39860	0.0131
36	Grand Coulee	Centram MDA	11.73475	0.3858	0.81173	0.0267
37	Grand Coulee	Centrat MDA	13.83624	0.4549	0.99666	0.0328
38	Grand Coulee	Union WDA	22.62057	0.7437	1.76970	0.0582
39	Grand Coulee	Nipigon WDA	25.20751	0.8287	1.99731	0.0657
40	Grand Coulee	Union NDA	38.29671	1.2591	3.14916	0.1035
41	Grand Coulee	Calstock NDA	30.96173	1.0179	2.50367	0.0823
42	Grand Coulee	Tunis NDA	35.49169	1.1669	2.90234	0.0954
43	Grand Coulee	GMIT NDA	39.22016	1.2894	3.23044	0.1062
44	Grand Coulee	Union SSMDA	34.13024	1.1221	2.78251	0.0915
45	Grand Coulee	Union NCDA	46.88942	1.5416	3.68324	0.1211
46	Grand Coulee	Union CDA	48.51458	1.5950	3.81856	0.1255
47	Grand Coulee	Enbridge CDA	49.42556	1.6250	3.89440	0.1280
48	Grand Coulee	Union EDA	52.46723	1.7250	4.14764	0.1364
49	Grand Coulee	Enbridge EDA	51.20828	1.6836	4.04281	0.1329
50	Grand Coulee	KPUC EDA	53.67781	1.7648	4.24845	0.1397
51	Grand Coulee	GMIT EDA	55.30480	1.8182	4.38391	0.1441
52	Grand Coulee	Enbridge SWDA	44.24773	1.4547	3.46325	0.1139
53	Grand Coulee	Union SWDA	44.18112	1.4525	3.45774	0.1137
54	Grand Coulee	Chippawa	49.80851	1.6375	3.92628	0.1291
55	Grand Coulee	Cornwall	52.19743	1.7161	4.12519	0.1356
56	Grand Coulee	East Hereford	58.74736	1.9314	4.67055	0.1536
57	Grand Coulee	Emerson 1	14.20337	0.4670	1.02897	0.0338
58	Grand Coulee	Emerson 2	14.20337	0.4670	1.02897	0.0338
59	Grand Coulee	Iroquois	51.58606	1.6960	4.07430	0.1339
60	Grand Coulee	Kirkwall	47.71645	1.5688	3.75210	0.1234
61	Grand Coulee	Napierville	55.02253	1.8090	4.36041	0.1434
62	Grand Coulee	Niagara Falls	49.76471	1.6361	3.92262	0.1290
63	Grand Coulee	North Bay Junction	41.31374	1.3583	3.41467	0.1123
64	Grand Coulee	Philipsburg	55.34343	1.8195	4.38714	0.1442
65	Grand Coulee	Spruce	13.83624	0.4549	0.99666	0.0328
66	Grand Coulee	St. Clair	41.45123	1.3628	3.42677	0.1127
67	Grand Coulee	Welwyn	7.03994	0.2315	0.39860	0.0131
68	Grand Coulee	Dawn Export	44.24773	1.4547	3.46325	0.1139
69	Grand Coulee	Union Parkway Belt	48.41908	1.5919	3.81060	0.1253
70	Grand Coulee	Union CDA (Amended)	48.32022	1.5886	3.80234	0.1250
71	Grand Coulee	Union ECDA	48.63078	1.5988	3.82822	0.1259
72	Grand Coulee	Enbridge Parkway CDA	48.41908	1.5919	3.81060	0.1253
73	Grand Coulee	Enbridge CDA (Amended)	49.51985	1.6281	3.90224	0.1283
74	Herbert	Empress	6.26158	0.2059	0.33011	0.0109
75	Herbert	TransGas SSDA	7.18320	0.2362	0.41120	0.0135
76	Herbert	Centram SSDA	10.19536	0.3352	0.67627	0.0222

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Herbert	Centram MDA	14.88957	0.4895	1.08937	0.0358
2	Herbert	Centrat MDA	16.99166	0.5586	1.27434	0.0419
3	Herbert	Union WDA	25.77630	0.8474	2.04737	0.0673
4	Herbert	Nipigon WDA	28.36293	0.9325	2.27499	0.0748
5	Herbert	Union NDA	41.45214	1.3628	3.42683	0.1127
6	Herbert	Calstock NDA	34.11685	1.1217	2.78135	0.0914
7	Herbert	Tunis NDA	38.64711	1.2706	3.18001	0.1045
8	Herbert	GMIT NDA	42.37559	1.3932	3.50811	0.1153
9	Herbert	Union SSMDA	37.28566	1.2258	3.06020	0.1006
10	Herbert	Union NCDA	50.22461	1.6512	3.96091	0.1302
11	Herbert	Union CDA	51.84977	1.7047	4.09624	0.1347
12	Herbert	Enbridge CDA	52.76045	1.7346	4.17209	0.1372
13	Herbert	Union EDA	55.80181	1.8346	4.42531	0.1455
14	Herbert	Enbridge EDA	54.54347	1.7932	4.32050	0.1420
15	Herbert	KPUC EDA	57.01300	1.8744	4.52612	0.1488
16	Herbert	GMIT EDA	58.64029	1.9279	4.66163	0.1533
17	Herbert	Enbridge SWDA	47.58231	1.5644	3.74092	0.1230
18	Herbert	Union SWDA	47.51600	1.5622	3.73543	0.1228
19	Herbert	Chippawa	53.14339	1.7472	4.20396	0.1382
20	Herbert	Cornwall	55.53262	1.8257	4.40288	0.1448
21	Herbert	East Hereford	62.08224	2.0411	4.94822	0.1627
22	Herbert	Emerson 1	17.35879	0.5707	1.30665	0.0430
23	Herbert	Emerson 2	17.35879	0.5707	1.30665	0.0430
24	Herbert	Iroquois	54.92125	1.8056	4.35198	0.1431
25	Herbert	Kirkwall	51.05164	1.6784	4.02977	0.1325
26	Herbert	Napierville	58.35772	1.9186	4.63810	0.1525
27	Herbert	Niagara Falls	53.09959	1.7457	4.20030	0.1381
28	Herbert	North Bay Junction	44.46947	1.4620	3.69235	0.1214
29	Herbert	Philipsburg	58.67831	1.9292	4.66483	0.1534
30	Herbert	Spruce	16.99166	0.5586	1.27434	0.0419
31	Herbert	St. Clair	44.60665	1.4665	3.70444	0.1218
32	Herbert	Welwyn	10.19536	0.3352	0.67627	0.0222
33	Herbert	Dawn Export	47.58231	1.5644	3.74092	0.1230
34	Herbert	Union Parkway Belt	51.75426	1.7015	4.08827	0.1344
35	Herbert	Union CDA (Amended)	51.65480	1.6982	4.08002	0.1341
36	Herbert	Union ECDA	51.96566	1.7085	4.10589	0.1350
37	Herbert	Enbridge Parkway CDA	51.75426	1.7015	4.08827	0.1344
38	Herbert	Enbridge CDA (Amended)	52.85474	1.7377	4.17993	0.1374
39	Iroquois	Empress	75.36490	2.4778	4.64704	0.1528
40	Iroquois	TransGas SSDA	65.08285	2.1397	3.98288	0.1309
41	Iroquois	Centram SSDA	60.86953	2.0012	3.71075	0.1220
42	Iroquois	Centram MDA	54.53495	1.7929	3.30158	0.1085
43	Iroquois	Centrat MDA	51.61070	1.6968	3.11269	0.1023
44	Iroquois	Union WDA	40.62754	1.3357	2.40329	0.0790
45	Iroquois	Nipigon WDA	36.11858	1.1875	2.11204	0.0694
46	Iroquois	Union NDA	18.30323	0.6018	0.96134	0.0316
47	Iroquois	Calstock NDA	28.27898	0.9297	1.60569	0.0528
48	Iroquois	Tunis NDA	22.10683	0.7268	1.20701	0.0397
49	Iroquois	GMIT NDA	17.52091	0.5760	0.91078	0.0299
50	Iroquois	Union SSMDA	33.88173	1.1139	1.96758	0.0647
51	Iroquois	Union NCDA	15.99886	0.5260	0.81247	0.0267
52	Iroquois	Union CDA	14.79163	0.4863	0.73452	0.0241
53	Iroquois	Enbridge CDA	13.44021	0.4419	0.64721	0.0213
54	Iroquois	Union EDA	6.62658	0.2179	0.20711	0.0068
55	Iroquois	Enbridge EDA	6.30020	0.2071	0.18603	0.0061
56	Iroquois	KPUC EDA	6.87812	0.2261	0.22335	0.0073
57	Iroquois	GMIT EDA	9.19192	0.3022	0.37282	0.0123
58	Iroquois	Enbridge SWDA	19.45876	0.6397	1.03597	0.0341
59	Iroquois	Union SWDA	19.54423	0.6426	1.04148	0.0342
60	Iroquois	Chippawa	17.28366	0.5682	0.89546	0.0294
61	Iroquois	Cornwall	5.18574	0.1705	0.11406	0.0037
62	Iroquois	East Hereford	13.62880	0.4481	0.65940	0.0217
63	Iroquois	Emerson 1	54.97387	1.8074	3.32995	0.1095
64	Iroquois	Emerson 2	54.97387	1.8074	3.32995	0.1095
65	Iroquois	Iroquois	3.96268	0.1303	0.03504	0.0012
66	Iroquois	Kirkwall	14.98690	0.4927	0.74712	0.0246
67	Iroquois	Napierville	8.82722	0.2902	0.34927	0.0115
68	Iroquois	Niagara Falls	17.22648	0.5664	0.89180	0.0293
69	Iroquois	North Bay Junction	14.17478	0.4660	0.69467	0.0228
70	Iroquois	Philipsburg	9.24119	0.3038	0.37600	0.0124
71	Iroquois	Spruce	51.61070	1.6968	3.11269	0.1023
72	Iroquois	St. Clair	20.02329	0.6583	1.07245	0.0353
73	Iroquois	Welwyn	60.86953	2.0012	3.71075	0.1220
74	Iroquois	Dawn Export	19.45876	0.6397	1.03597	0.0341
75	Iroquois	Union Parkway Belt	14.08109	0.4629	0.68863	0.0226
76	Iroquois	Union CDA (Amended)	15.52771	0.5105	0.78205	0.0257

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Iroquois	Union ECDA	14.35423	0.4719	0.70626	0.0232
2	Iroquois	Enbridge Parkway CDA	14.08109	0.4629	0.68863	0.0226
3	Iroquois	Enbridge CDA (Amended)	13.37999	0.4399	0.64333	0.0212
4	Kirkwall	Empress	70.37656	2.3138	4.32483	0.1422
5	Kirkwall	TransGas SSDA	60.09360	1.9757	3.66064	0.1203
6	Kirkwall	Centram SSDA	55.88120	1.8372	3.38854	0.1114
7	Kirkwall	Centram MDA	49.50830	1.6277	2.97691	0.0979
8	Kirkwall	Centrat MDA	49.48548	1.6269	2.97543	0.0978
9	Kirkwall	Union WDA	39.84097	1.3098	2.35248	0.0773
10	Kirkwall	Nipigon WDA	35.33200	1.1616	2.06126	0.0678
11	Kirkwall	Union NDA	17.49993	0.5753	0.90945	0.0299
12	Kirkwall	Calstock NDA	27.49241	0.9039	1.55489	0.0511
13	Kirkwall	Tunis NDA	21.32087	0.7010	1.15623	0.0380
14	Kirkwall	GMIT NDA	16.73373	0.5502	0.85997	0.0283
15	Kirkwall	Union SSMDA	22.85782	0.7515	1.25551	0.0413
16	Kirkwall	Union NCDA	9.23085	0.3035	0.37535	0.0123
17	Kirkwall	Union CDA	4.99168	0.1641	0.10152	0.0033
18	Kirkwall	Enbridge CDA	6.44529	0.2119	0.19541	0.0064
19	Kirkwall	Union EDA	12.51403	0.4114	0.58740	0.0193
20	Kirkwall	Enbridge EDA	15.77195	0.5185	0.79785	0.0262
21	Kirkwall	KPUC EDA	12.07146	0.3969	0.55882	0.0184
22	Kirkwall	GMIT EDA	19.99622	0.6574	1.07068	0.0352
23	Kirkwall	Enbridge SWDA	8.43454	0.2773	0.32389	0.0106
24	Kirkwall	Union SWDA	8.52001	0.2801	0.32940	0.0108
25	Kirkwall	Chippawa	6.65943	0.2189	0.20922	0.0069
26	Kirkwall	Cornwall	15.99095	0.5257	0.81198	0.0267
27	Kirkwall	East Hereford	24.43371	0.8033	1.35732	0.0446
28	Kirkwall	Emerson 1	46.12170	1.5163	2.75817	0.0907
29	Kirkwall	Emerson 2	46.12170	1.5163	2.75817	0.0907
30	Kirkwall	Iroquois	14.98690	0.4927	0.74712	0.0246
31	Kirkwall	Kirkwall	3.96268	0.1303	0.03504	0.0012
32	Kirkwall	Napierville	19.63274	0.6455	1.04719	0.0344
33	Kirkwall	Niagara Falls	6.60224	0.2171	0.20556	0.0068
34	Kirkwall	North Bay Junction	13.38881	0.4402	0.64389	0.0212
35	Kirkwall	Philipsburg	20.04671	0.6591	1.07392	0.0353
36	Kirkwall	Spruce	49.48548	1.6269	2.97543	0.0978
37	Kirkwall	St. Clair	8.99908	0.2959	0.36037	0.0118
38	Kirkwall	Welwyn	55.88120	1.8372	3.38854	0.1114
39	Kirkwall	Dawn Export	8.43454	0.2773	0.32389	0.0106
40	Kirkwall	Union Parkway Belt	4.86819	0.1601	0.09354	0.0031
41	Kirkwall	Union CDA (Amended)	4.74044	0.1559	0.08527	0.0028
42	Kirkwall	Union ECDA	5.14133	0.1690	0.11118	0.0037
43	Kirkwall	Enbridge Parkway CDA	4.86819	0.1601	0.09354	0.0031
44	Kirkwall	Enbridge CDA (Amended)	6.59403	0.2168	0.20501	0.0067
45	KPUC EDA	Empress	-	2.5664	-	0.1585
46	KPUC EDA	TransGas SSDA	-	2.2283	-	0.1367
47	KPUC EDA	Centram SSDA	-	2.0898	-	0.1277
48	KPUC EDA	Centram MDA	-	1.8799	-	0.1142
49	KPUC EDA	Centrat MDA	-	1.7854	-	0.1081
50	KPUC EDA	Union WDA	-	1.4243	-	0.0847
51	KPUC EDA	Nipigon WDA	-	1.2761	-	0.0752
52	KPUC EDA	Union NDA	-	0.6904	-	0.0373
53	KPUC EDA	Calstock NDA	-	1.0184	-	0.0585
54	KPUC EDA	Tunis NDA	-	0.8154	-	0.0454
55	KPUC EDA	GMIT NDA	-	0.6646	-	0.0357
56	KPUC EDA	Union SSMDA	-	1.0181	-	0.0585
57	KPUC EDA	Union NCDA	-	0.4380	-	0.0210
58	KPUC EDA	Union CDA	-	0.3905	-	0.0180
59	KPUC EDA	Enbridge CDA	-	0.3460	-	0.0151
60	KPUC EDA	Union EDA	-	0.1933	-	0.0052
61	KPUC EDA	Enbridge EDA	-	0.2746	-	0.0105
62	KPUC EDA	KPUC EDA	-	0.1303	-	0.0012
63	KPUC EDA	GMIT EDA	-	0.3909	-	0.0180
64	KPUC EDA	Enbridge SWDA	-	0.5439	-	0.0279
65	KPUC EDA	Union SWDA	-	0.5467	-	0.0280
66	KPUC EDA	Chippawa	-	0.4724	-	0.0232
67	KPUC EDA	Cornwall	-	0.2591	-	0.0095
68	KPUC EDA	East Hereford	-	0.5367	-	0.0274
69	KPUC EDA	Emerson 1	-	1.7829	-	0.1079
70	KPUC EDA	Emerson 2	-	1.7829	-	0.1079
71	KPUC EDA	Iroquois	-	0.2261	-	0.0073
72	KPUC EDA	Kirkwall	-	0.3969	-	0.0184
73	KPUC EDA	Napierville	-	0.3789	-	0.0172
74	KPUC EDA	Niagara Falls	-	0.4705	-	0.0231
75	KPUC EDA	North Bay Junction	-	0.5547	-	0.0286
76	KPUC EDA	Philipsburg	-	0.3925	-	0.0181

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1	KPUC EDA	Spruce	-	1.7854	-	0.1081
2	KPUC EDA	St. Clair	-	0.5625	-	0.0291
3	KPUC EDA	Welwyn	-	2.0898	-	0.1277
4	KPUC EDA	Dawn Export	-	0.5439	-	0.0279
5	KPUC EDA	Union Parkway Belt	-	0.3671	-	0.0164
6	KPUC EDA	Union CDA (Amended)	-	0.4147	-	0.0195
7	KPUC EDA	Union ECDA	-	0.3761	-	0.0170
8	KPUC EDA	Enbridge Parkway CDA	-	0.3671	-	0.0164
9	KPUC EDA	Enbridge CDA (Amended)	-	0.3441	-	0.0150
10	Lachenaie	Empress	79.45138	2.6121	4.91091	0.1615
11	Lachenaie	TransGas SSDA	69.16598	2.2740	4.24674	0.1396
12	Lachenaie	Centram SSDA	64.95723	2.1356	3.97462	0.1307
13	Lachenaie	Centram MDA	58.62083	1.9273	3.56544	0.1172
14	Lachenaie	Centrat MDA	55.69626	1.8311	3.37657	0.1110
15	Lachenaie	Union WDA	44.71068	1.4699	2.66715	0.0877
16	Lachenaie	Nipigon WDA	40.20536	1.3218	2.37592	0.0781
17	Lachenaie	Union NDA	22.38788	0.7360	1.22520	0.0403
18	Lachenaie	Calstock NDA	32.36273	1.0640	1.86955	0.0615
19	Lachenaie	Tunis NDA	26.19331	0.8612	1.47089	0.0484
20	Lachenaie	GMIT NDA	21.60435	0.7103	1.17465	0.0386
21	Lachenaie	Union SSMDA	38.18448	1.2554	2.24541	0.0738
22	Lachenaie	Union NCDA	20.24625	0.6656	1.08682	0.0357
23	Lachenaie	Union CDA	19.09224	0.6277	1.01236	0.0333
24	Lachenaie	Enbridge CDA	17.74326	0.5833	0.92504	0.0304
25	Lachenaie	Union EDA	10.77663	0.3543	0.47521	0.0156
26	Lachenaie	Enbridge EDA	10.21118	0.3357	0.43853	0.0144
27	Lachenaie	KPUC EDA	11.17995	0.3676	0.50119	0.0165
28	Lachenaie	GMIT EDA	6.42887	0.2114	0.19448	0.0064
29	Lachenaie	Enbridge SWDA	23.75998	0.7812	1.31381	0.0432
30	Lachenaie	Union SWDA	23.84788	0.7840	1.31931	0.0434
31	Lachenaie	Chippawa	21.58610	0.7097	1.17330	0.0386
32	Lachenaie	Cornwall	7.25863	0.2386	0.24803	0.0082
33	Lachenaie	East Hereford	9.10797	0.2994	0.36740	0.0121
34	Lachenaie	Emerson 1	59.06126	1.9417	3.59383	0.1182
35	Lachenaie	Emerson 2	59.06126	1.9417	3.59383	0.1182
36	Lachenaie	Iroquois	8.48230	0.2789	0.32704	0.0108
37	Lachenaie	Kirkwall	19.28690	0.6341	1.02496	0.0337
38	Lachenaie	Napierville	8.03730	0.2642	0.29823	0.0098
39	Lachenaie	Niagara Falls	21.53044	0.7079	1.16964	0.0385
40	Lachenaie	North Bay Junction	18.26247	0.6004	0.95855	0.0315
41	Lachenaie	Philipsburg	8.44975	0.2778	0.32496	0.0107
42	Lachenaie	Spruce	55.69626	1.8311	3.37657	0.1110
43	Lachenaie	St. Clair	24.32543	0.7997	1.35028	0.0444
44	Lachenaie	Welwyn	64.95723	2.1356	3.97462	0.1307
45	Lachenaie	Dawn Export	23.75998	0.7812	1.31381	0.0432
46	Lachenaie	Union Parkway Belt	18.38292	0.6044	0.96647	0.0318
47	Lachenaie	Union CDA (Amended)	19.82923	0.6519	1.05989	0.0348
48	Lachenaie	Union ECDA	18.65667	0.6134	0.98410	0.0324
49	Lachenaie	Enbridge Parkway CDA	18.38292	0.6044	0.96647	0.0318
50	Lachenaie	Enbridge CDA (Amended)	17.67847	0.5812	0.92100	0.0303
51	Liebenthal	Empress	3.66703	0.1206	0.10179	0.0033
52	Liebenthal	TransGas SSDA	9.70353	0.3190	0.63299	0.0208
53	Liebenthal	Centram SSDA	12.78960	0.4205	0.90458	0.0297
54	Liebenthal	Centram MDA	17.48411	0.5748	1.31768	0.0433
55	Liebenthal	Centrat MDA	19.58620	0.6439	1.50265	0.0494
56	Liebenthal	Union WDA	28.37054	0.9327	2.27567	0.0748
57	Liebenthal	Nipigon WDA	30.95717	1.0178	2.50329	0.0823
58	Liebenthal	Union NDA	44.04668	1.4481	3.65516	0.1202
59	Liebenthal	Calstock NDA	36.71140	1.2070	3.00966	0.0989
60	Liebenthal	Tunis NDA	41.24165	1.3559	3.40832	0.1121
61	Liebenthal	GMIT NDA	44.97013	1.4785	3.73642	0.1228
62	Liebenthal	Union SSMDA	39.88020	1.3111	3.28851	0.1081
63	Liebenthal	Union NCDA	52.96698	1.7414	4.18925	0.1377
64	Liebenthal	Union CDA	54.59183	1.7948	4.32456	0.1422
65	Liebenthal	Enbridge CDA	55.50312	1.8248	4.40042	0.1447
66	Liebenthal	Union EDA	58.54387	1.9247	4.65361	0.1530
67	Liebenthal	Enbridge EDA	57.28432	1.8833	4.54874	0.1495
68	Liebenthal	KPUC EDA	59.75476	1.9645	4.75444	0.1563
69	Liebenthal	GMIT EDA	61.38175	2.0180	4.88991	0.1608
70	Liebenthal	Enbridge SWDA	50.32438	1.6545	3.96923	0.1305
71	Liebenthal	Union SWDA	50.25837	1.6523	3.96374	0.1303
72	Liebenthal	Chippawa	55.88515	1.8373	4.43226	0.1457
73	Liebenthal	Cornwall	58.27438	1.9159	4.63118	0.1523
74	Liebenthal	East Hereford	64.82430	2.1312	5.17654	0.1702
75	Liebenthal	Emerson 1	19.95333	0.6560	1.53496	0.0505
76	Liebenthal	Emerson 2	19.95333	0.6560	1.53496	0.0505

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1	Liebenthal	Iroquois	57.66331	1.8958	4.58029	0.1506
2	Liebenthal	Kirkwall	53.79370	1.7686	4.25808	0.1400
3	Liebenthal	Napierville	61.09948	2.0088	4.86639	0.1600
4	Liebenthal	Niagara Falls	55.84135	1.8359	4.42860	0.1456
5	Liebenthal	North Bay Junction	47.06371	1.5473	3.92066	0.1289
6	Liebenthal	Philipsburg	61.42068	2.0193	4.89313	0.1609
7	Liebenthal	Spruce	19.58620	0.6439	1.50265	0.0494
8	Liebenthal	St. Clair	47.20119	1.5518	3.93275	0.1293
9	Liebenthal	Welwyn	12.78960	0.4205	0.90458	0.0297
10	Liebenthal	Dawn Export	50.32438	1.6545	3.96923	0.1305
11	Liebenthal	Union Parkway Belt	54.49633	1.7917	4.31658	0.1419
12	Liebenthal	Union CDA (Amended)	54.39656	1.7884	4.30831	0.1416
13	Liebenthal	Union ECDA	54.70772	1.7986	4.33420	0.1425
14	Liebenthal	Enbridge Parkway CDA	54.49633	1.7917	4.31658	0.1419
15	Liebenthal	Enbridge CDA (Amended)	55.59650	1.8278	4.40821	0.1449
16	Napierville	Empress	79.79478	2.6234	4.93314	0.1622
17	Napierville	TransGas SSDA	69.51182	2.2853	4.26895	0.1403
18	Napierville	Centram SSDA	65.29880	2.1468	3.99685	0.1314
19	Napierville	Centram MDA	58.96423	1.9386	3.58770	0.1180
20	Napierville	Centrat MDA	56.03997	1.8424	3.39880	0.1117
21	Napierville	Union WDA	45.05712	1.4813	2.68940	0.0884
22	Napierville	Nipigon WDA	40.54785	1.3331	2.39815	0.0788
23	Napierville	Union NDA	22.73281	0.7474	1.24744	0.0410
24	Napierville	Calstock NDA	32.70856	1.0754	1.89179	0.0622
25	Napierville	Tunis NDA	26.53641	0.8724	1.49312	0.0491
26	Napierville	GMIT NDA	21.95019	0.7217	1.19689	0.0393
27	Napierville	Union SSMDA	38.52758	1.2667	2.26765	0.0746
28	Napierville	Union NCDA	20.58995	0.6769	1.10903	0.0365
29	Napierville	Union CDA	19.43716	0.6390	1.03458	0.0340
30	Napierville	Enbridge CDA	18.08545	0.5946	0.94727	0.0311
31	Napierville	Union EDA	11.12064	0.3656	0.49739	0.0164
32	Napierville	Enbridge EDA	10.55367	0.3470	0.46079	0.0151
33	Napierville	KPUC EDA	11.52335	0.3789	0.52342	0.0172
34	Napierville	GMIT EDA	8.23714	0.2708	0.31114	0.0102
35	Napierville	Enbridge SWDA	24.10430	0.7925	1.33604	0.0439
36	Napierville	Union SWDA	24.19007	0.7953	1.34155	0.0441
37	Napierville	Chippawa	21.92890	0.7210	1.19553	0.0393
38	Napierville	Cornwall	7.60386	0.2500	0.27026	0.0089
39	Napierville	East Hereford	13.18289	0.4334	0.63059	0.0207
40	Napierville	Emerson 1	59.40345	1.9530	3.61606	0.1189
41	Napierville	Emerson 2	59.40345	1.9530	3.61606	0.1189
42	Napierville	Iroquois	8.82722	0.2902	0.34927	0.0115
43	Napierville	Kirkwall	19.63274	0.6455	1.04719	0.0344
44	Napierville	Napierville	3.96268	0.1303	0.03504	0.0012
45	Napierville	Niagara Falls	21.87232	0.7191	1.19187	0.0392
46	Napierville	North Bay Junction	18.60405	0.6116	0.98078	0.0322
47	Napierville	Philipsburg	6.14021	0.2019	0.17571	0.0058
48	Napierville	Spruce	56.03997	1.8424	3.39880	0.1117
49	Napierville	St. Clair	24.66913	0.8110	1.37252	0.0451
50	Napierville	Welwyn	65.29880	2.1468	3.99685	0.1314
51	Napierville	Dawn Export	24.10430	0.7925	1.33604	0.0439
52	Napierville	Union Parkway Belt	18.72693	0.6157	0.98870	0.0325
53	Napierville	Union CDA (Amended)	20.17325	0.6632	1.08211	0.0356
54	Napierville	Union ECDA	18.99947	0.6246	1.00632	0.0331
55	Napierville	Enbridge Parkway CDA	18.72693	0.6157	0.98870	0.0325
56	Napierville	Enbridge CDA (Amended)	18.02613	0.5926	0.94342	0.0310
57	Niagara Falls	Empress	73.01673	2.4006	4.49535	0.1478
58	Niagara Falls	TransGas SSDA	62.73407	2.0625	3.83119	0.1260
59	Niagara Falls	Centram SSDA	58.52136	1.9240	3.55906	0.1170
60	Niagara Falls	Centram MDA	52.14785	1.7145	3.14740	0.1035
61	Niagara Falls	Centrat MDA	52.12504	1.7137	3.14594	0.1034
62	Niagara Falls	Union WDA	42.08085	1.3835	2.49717	0.0821
63	Niagara Falls	Nipigon WDA	37.57219	1.2353	2.20593	0.0725
64	Niagara Falls	Union NDA	19.73920	0.6490	1.05410	0.0347
65	Niagara Falls	Calstock NDA	29.73260	0.9775	1.69957	0.0559
66	Niagara Falls	Tunis NDA	23.56045	0.7746	1.30090	0.0428
67	Niagara Falls	GMIT NDA	18.97392	0.6238	1.00466	0.0330
68	Niagara Falls	Union SSMDA	25.49768	0.8383	1.42603	0.0469
69	Niagara Falls	Union NCDA	11.47073	0.3771	0.52001	0.0171
70	Niagara Falls	Union CDA	6.45807	0.2123	0.19624	0.0065
71	Niagara Falls	Enbridge CDA	8.05403	0.2648	0.29933	0.0098
72	Niagara Falls	Union EDA	14.75360	0.4851	0.73206	0.0241
73	Niagara Falls	Enbridge EDA	18.01184	0.5922	0.94251	0.0310
74	Niagara Falls	KPUC EDA	14.31165	0.4705	0.70349	0.0231
75	Niagara Falls	GMIT EDA	22.23732	0.7311	1.21542	0.0400
76	Niagara Falls	Enbridge SWDA	11.07440	0.3641	0.49441	0.0163



Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Niagara Falls	Union SWDA	11.15957	0.3669	0.49992	0.0164
2	Niagara Falls	Chippawa	4.87883	0.1604	0.09425	0.0031
3	Niagara Falls	Cornwall	18.23114	0.5994	0.95665	0.0315
4	Niagara Falls	East Hereford	26.67390	0.8770	1.50200	0.0494
5	Niagara Falls	Emerson 1	48.76157	1.6031	2.92869	0.0963
6	Niagara Falls	Emerson 2	48.76157	1.6031	2.92869	0.0963
7	Niagara Falls	Iroquois	17.22648	0.5664	0.89180	0.0293
8	Niagara Falls	Kirkwall	6.60224	0.2171	0.20556	0.0068
9	Niagara Falls	Napierville	21.87232	0.7191	1.19187	0.0392
10	Niagara Falls	Niagara Falls	3.96268	0.1303	0.03504	0.0012
11	Niagara Falls	North Bay Junction	15.62839	0.5138	0.78857	0.0259
12	Niagara Falls	Philipsburg	22.28629	0.7327	1.21860	0.0401
13	Niagara Falls	Spruce	52.12504	1.7137	3.14594	0.1034
14	Niagara Falls	St. Clair	11.63924	0.3827	0.53089	0.0175
15	Niagara Falls	Welwyn	58.52136	1.9240	3.55906	0.1170
16	Niagara Falls	Dawn Export	11.07440	0.3641	0.49441	0.0163
17	Niagara Falls	Union Parkway Belt	7.10807	0.2337	0.23822	0.0078
18	Niagara Falls	Union CDA (Amended)	5.82510	0.1915	0.15533	0.0051
19	Niagara Falls	Union ECDA	6.83493	0.2247	0.22058	0.0073
20	Niagara Falls	Enbridge Parkway CDA	7.10807	0.2337	0.23822	0.0078
21	Niagara Falls	Enbridge CDA (Amended)	8.14345	0.2677	0.30509	0.0100
22	Nipigon WDA	Empress	-	1.0427	-	0.0845
23	Nipigon WDA	TransGas SSDA	-	0.7946	-	0.0627
24	Nipigon WDA	Centram SSDA	-	0.6929	-	0.0537
25	Nipigon WDA	Centram MDA	-	0.5401	-	0.0403
26	Nipigon WDA	Centrat MDA	-	0.4695	-	0.0341
27	Nipigon WDA	Union WDA	-	0.2085	-	0.0111
28	Nipigon WDA	Nipigon WDA	-	0.0956	-	0.0012
29	Nipigon WDA	Union NDA	-	0.5260	-	0.0390
30	Nipigon WDA	Calstock NDA	-	0.2848	-	0.0178
31	Nipigon WDA	Tunis NDA	-	0.4338	-	0.0309
32	Nipigon WDA	GMIT NDA	-	0.5563	-	0.0417
33	Nipigon WDA	Union SSMDA	-	1.2058	-	0.0988
34	Nipigon WDA	Union NCDA	-	0.7668	-	0.0566
35	Nipigon WDA	Union CDA	-	0.8962	-	0.0674
36	Nipigon WDA	Enbridge CDA	-	0.8742	-	0.0655
37	Nipigon WDA	Union EDA	-	0.9523	-	0.0720
38	Nipigon WDA	Enbridge EDA	-	0.9092	-	0.0684
39	Nipigon WDA	KPUC EDA	-	0.9899	-	0.0752
40	Nipigon WDA	GMIT EDA	-	1.0434	-	0.0796
41	Nipigon WDA	Enbridge SWDA	-	1.0152	-	0.0773
42	Nipigon WDA	Union SWDA	-	1.0174	-	0.0774
43	Nipigon WDA	Chippawa	-	0.9597	-	0.0726
44	Nipigon WDA	Cornwall	-	0.9413	-	0.0711
45	Nipigon WDA	East Hereford	-	1.1566	-	0.0890
46	Nipigon WDA	Emerson 1	-	0.5506	-	0.0412
47	Nipigon WDA	Emerson 2	-	0.5506	-	0.0412
48	Nipigon WDA	Iroquois	-	0.9212	-	0.0694
49	Nipigon WDA	Kirkwall	-	0.9011	-	0.0678
50	Nipigon WDA	Napierville	-	1.0342	-	0.0788
51	Nipigon WDA	Niagara Falls	-	0.9583	-	0.0725
52	Nipigon WDA	North Bay Junction	-	0.6252	-	0.0478
53	Nipigon WDA	Philipsburg	-	1.0447	-	0.0797
54	Nipigon WDA	Spruce	-	0.4695	-	0.0341
55	Nipigon WDA	St. Clair	-	0.9742	-	0.0785
56	Nipigon WDA	Welwyn	-	0.6929	-	0.0537
57	Nipigon WDA	Dawn Export	-	1.0152	-	0.0773
58	Nipigon WDA	Union Parkway Belt	-	0.8780	-	0.0658
59	Nipigon WDA	Union CDA (Amended)	-	0.9149	-	0.0689
60	Nipigon WDA	Union ECDA	-	0.8850	-	0.0664
61	Nipigon WDA	Enbridge Parkway CDA	-	0.8780	-	0.0658
62	Nipigon WDA	Enbridge CDA (Amended)	-	0.8739	-	0.0655
63	North Bay Junction	Empress	65.15280	2.1420	3.98741	0.1311
64	North Bay Junction	TransGas SSDA	54.86954	1.8039	3.32321	0.1093
65	North Bay Junction	Centram SSDA	50.65713	1.6654	3.05112	0.1003
66	North Bay Junction	Centram MDA	44.32286	1.4572	2.64197	0.0869
67	North Bay Junction	Centrat MDA	41.39800	1.3610	2.45305	0.0806
68	North Bay Junction	Union WDA	30.41515	1.0000	1.74364	0.0573
69	North Bay Junction	Nipigon WDA	25.90588	0.8517	1.45241	0.0478
70	North Bay Junction	Union NDA	8.09023	0.2660	0.30164	0.0099
71	North Bay Junction	Calstock NDA	18.06659	0.5940	0.94604	0.0311
72	North Bay Junction	Tunis NDA	11.89444	0.3911	0.54738	0.0180
73	North Bay Junction	GMIT NDA	7.30821	0.2403	0.25114	0.0083
74	North Bay Junction	Union SSMDA	32.28334	1.0614	1.86434	0.0613
75	North Bay Junction	Union NCDA	8.12095	0.2670	0.30362	0.0100
76	North Bay Junction	Union CDA	13.19353	0.4338	0.63129	0.0208

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1	North Bay Junction	Enbridge CDA	12.33609	0.4056	0.57589	0.0189
2	North Bay Junction	Union EDA	15.39479	0.5061	0.77346	0.0254
3	North Bay Junction	Enbridge EDA	13.70423	0.4506	0.66428	0.0218
4	North Bay Junction	KPUC EDA	16.87121	0.5547	0.86882	0.0286
5	North Bay Junction	GMIT EDA	18.96935	0.6237	1.00436	0.0330
6	North Bay Junction	Enbridge SWDA	17.86067	0.5872	0.93274	0.0307
7	North Bay Junction	Union SWDA	17.94553	0.5900	0.93823	0.0308
8	North Bay Junction	Chippawa	15.68527	0.5157	0.79223	0.0260
9	North Bay Junction	Cornwall	14.96287	0.4919	0.74556	0.0245
10	North Bay Junction	East Hereford	23.40623	0.7695	1.29092	0.0424
11	North Bay Junction	Emerson 1	44.76178	1.4716	2.67032	0.0878
12	North Bay Junction	Emerson 2	44.76178	1.4716	2.67032	0.0878
13	North Bay Junction	Iroquois	14.17478	0.4660	0.69467	0.0228
14	North Bay Junction	Kirkwall	13.38881	0.4402	0.64389	0.0212
15	North Bay Junction	Napierville	18.60405	0.6116	0.98078	0.0322
16	North Bay Junction	Niagara Falls	15.62839	0.5138	0.78857	0.0259
17	North Bay Junction	North Bay Junction	3.96268	0.1303	0.03504	0.0012
18	North Bay Junction	Philipsburg	19.01802	0.6253	1.00751	0.0331
19	North Bay Junction	Spruce	41.39800	1.3610	2.45305	0.0806
20	North Bay Junction	St. Clair	18.42520	0.6058	0.96922	0.0319
21	North Bay Junction	Welwyn	50.65713	1.6654	3.05112	0.1003
22	North Bay Junction	Dawn Export	17.86067	0.5872	0.93274	0.0307
23	North Bay Junction	Union Parkway Belt	12.48300	0.4104	0.58539	0.0192
24	North Bay Junction	Union CDA (Amended)	13.92901	0.4579	0.67881	0.0223
25	North Bay Junction	Union ECDA	12.75584	0.4194	0.60303	0.0198
26	North Bay Junction	Enbridge Parkway CDA	12.48300	0.4104	0.58539	0.0192
27	North Bay Junction	Enbridge CDA (Amended)	12.32270	0.4051	0.57504	0.0189
28	Philipsburg	Empress	80.20814	2.6370	4.95988	0.1631
29	Philipsburg	TransGas SSDA	69.92548	2.2989	4.29570	0.1412
30	Philipsburg	Centram SSDA	65.71278	2.1604	4.02358	0.1323
31	Philipsburg	Centram MDA	59.37790	1.9522	3.61439	0.1188
32	Philipsburg	Centrat MDA	56.45394	1.8560	3.42553	0.1126
33	Philipsburg	Union WDA	45.47109	1.4949	2.71614	0.0893
34	Philipsburg	Nipigon WDA	40.96182	1.3467	2.42488	0.0797
35	Philipsburg	Union NDA	23.14648	0.7610	1.27417	0.0419
36	Philipsburg	Calstock NDA	33.12253	1.0890	1.91851	0.0631
37	Philipsburg	Tunis NDA	26.95008	0.8860	1.51985	0.0500
38	Philipsburg	GMIT NDA	22.36416	0.7353	1.22362	0.0402
39	Philipsburg	Union SSM DA	38.94124	1.2803	2.29438	0.0754
40	Philipsburg	Union NCDA	21.00393	0.6905	1.13577	0.0373
41	Philipsburg	Union CDA	19.85113	0.6526	1.06131	0.0349
42	Philipsburg	Enbridge CDA	18.49881	0.6082	0.97397	0.0320
43	Philipsburg	Union EDA	11.53461	0.3792	0.52412	0.0172
44	Philipsburg	Enbridge EDA	10.96764	0.3606	0.48750	0.0160
45	Philipsburg	KPUC EDA	11.93733	0.3925	0.55015	0.0181
46	Philipsburg	GMIT EDA	8.58906	0.2824	0.33386	0.0110
47	Philipsburg	Enbridge SWDA	24.51827	0.8061	1.36277	0.0448
48	Philipsburg	Union SWDA	24.60343	0.8089	1.36828	0.0450
49	Philipsburg	Chippawa	22.34287	0.7346	1.22226	0.0402
50	Philipsburg	Cornwall	8.01783	0.2636	0.29699	0.0098
51	Philipsburg	East Hereford	13.59625	0.4470	0.65732	0.0216
52	Philipsburg	Emerson 1	59.81711	1.9666	3.64279	0.1198
53	Philipsburg	Emerson 2	59.81711	1.9666	3.64279	0.1198
54	Philipsburg	Iroquois	9.24119	0.3038	0.37600	0.0124
55	Philipsburg	Kirkwall	20.04671	0.6591	1.07392	0.0353
56	Philipsburg	Napierville	6.14021	0.2019	0.17571	0.0058
57	Philipsburg	Niagara Falls	22.28629	0.7327	1.21860	0.0401
58	Philipsburg	North Bay Junction	19.01802	0.6253	1.00751	0.0331
59	Philipsburg	Philipsburg	3.96268	0.1303	0.03504	0.0012
60	Philipsburg	Spruce	56.45394	1.8560	3.42553	0.1126
61	Philipsburg	St. Clair	25.08310	0.8247	1.39925	0.0460
62	Philipsburg	Welwyn	65.71278	2.1604	4.02358	0.1323
63	Philipsburg	Dawn Export	24.51827	0.8061	1.36277	0.0448
64	Philipsburg	Union Parkway Belt	19.14090	0.6293	1.01543	0.0334
65	Philipsburg	Union CDA (Amended)	20.58722	0.6768	1.10886	0.0365
66	Philipsburg	Union ECDA	19.41344	0.6383	1.03303	0.0340
67	Philipsburg	Enbridge Parkway CDA	19.14090	0.6293	1.01543	0.0334
68	Philipsburg	Enbridge CDA (Amended)	18.43950	0.6062	0.97012	0.0319
69	Richmound	Empress	2.94707	0.0969	0.03844	0.0013
70	Richmound	TransGas SSDA	10.41801	0.3425	0.69585	0.0229
71	Richmound	Centram SSDA	13.50956	0.4442	0.96794	0.0318
72	Richmound	Centram MDA	18.20346	0.5985	1.38100	0.0454
73	Richmound	Centrat MDA	20.30586	0.6676	1.56599	0.0515
74	Richmound	Union WDA	29.09050	0.9564	2.33902	0.0769
75	Richmound	Nipigon WDA	31.67713	1.0414	2.56664	0.0844
76	Richmound	Union NDA	44.76603	1.4718	3.71848	0.1223



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1	Richmound	Calstock NDA	37.43136	1.2306	3.07299	0.1010
2	Richmound	Tunis NDA	41.96162	1.3796	3.47167	0.1141
3	Richmound	GMIT NDA	45.68979	1.5021	3.79976	0.1249
4	Richmound	Union SSMDA	40.59986	1.3348	3.35184	0.1102
5	Richmound	Union NCDA	53.72739	1.7664	4.25259	0.1398
6	Richmound	Union CDA	55.35225	1.8198	4.38788	0.1443
7	Richmound	Enbridge CDA	56.26353	1.8498	4.46375	0.1468
8	Richmound	Union EDA	59.30550	1.9498	4.71703	0.1551
9	Richmound	Enbridge EDA	58.04595	1.9084	4.61215	0.1516
10	Richmound	KPUC EDA	60.51548	1.9896	4.81779	0.1584
11	Richmound	GMIT EDA	62.14338	2.0431	4.95332	0.1628
12	Richmound	Enbridge SWDA	51.08540	1.6795	4.03259	0.1326
13	Richmound	Union SWDA	51.01909	1.6773	4.02707	0.1324
14	Richmound	Chippawa	56.64618	1.8623	4.49561	0.1478
15	Richmound	Cornwall	59.03510	1.9409	4.69453	0.1543
16	Richmound	East Hereford	65.58533	2.1562	5.23987	0.1723
17	Richmound	Emerson 1	20.67330	0.6797	1.59831	0.0525
18	Richmound	Emerson 2	20.67330	0.6797	1.59831	0.0525
19	Richmound	Iroquois	58.42433	1.9208	4.64364	0.1527
20	Richmound	Kirkwall	54.55442	1.7936	4.32143	0.1421
21	Richmound	Napierville	61.86020	2.0338	4.92975	0.1621
22	Richmound	Niagara Falls	56.60238	1.8609	4.49195	0.1477
23	Richmound	North Bay Junction	47.78367	1.5710	3.98401	0.1310
24	Richmound	Philipsburg	62.18140	2.0443	4.95648	0.1630
25	Richmound	Spruce	20.30586	0.6676	1.56599	0.0515
26	Richmound	St. Clair	47.92115	1.5755	3.99610	0.1314
27	Richmound	Welwyn	13.50956	0.4442	0.96794	0.0318
28	Richmound	Dawn Export	51.08540	1.6795	4.03259	0.1326
29	Richmound	Union Parkway Belt	55.25705	1.8167	4.37993	0.1440
30	Richmound	Union CDA (Amended)	55.15789	1.8134	4.37168	0.1437
31	Richmound	Union ECDA	55.46844	1.8236	4.39754	0.1446
32	Richmound	Enbridge Parkway CDA	55.25705	1.8167	4.37993	0.1440
33	Richmound	Enbridge CDA (Amended)	56.35783	1.8529	4.47157	0.1470
34	Sainte-Genevieve-de-Berthier	Empress	80.57132	2.6489	4.98330	0.1638
35	Sainte-Genevieve-de-Berthier	TransGas SSDA	70.28896	2.3109	4.31915	0.1420
36	Sainte-Genevieve-de-Berthier	Centram SSDA	66.07565	2.1724	4.04702	0.1331
37	Sainte-Genevieve-de-Berthier	Centram MDA	59.73985	1.9641	3.63777	0.1196
38	Sainte-Genevieve-de-Berthier	Centrat MDA	56.81651	1.8679	3.44895	0.1134
39	Sainte-Genevieve-de-Berthier	Union WDA	45.83335	1.5069	2.73955	0.0901
40	Sainte-Genevieve-de-Berthier	Nipigon WDA	41.32439	1.3586	2.44830	0.0805
41	Sainte-Genevieve-de-Berthier	Union NDA	23.50904	0.7729	1.29760	0.0427
42	Sainte-Genevieve-de-Berthier	Calstock NDA	33.48480	1.1009	1.94195	0.0638
43	Sainte-Genevieve-de-Berthier	Tunis NDA	27.31325	0.8980	1.54329	0.0507
44	Sainte-Genevieve-de-Berthier	GMIT NDA	22.72612	0.7472	1.24703	0.0410
45	Sainte-Genevieve-de-Berthier	Union SSMDA	39.30442	1.2922	2.31782	0.0762
46	Sainte-Genevieve-de-Berthier	Union NCDA	21.36680	0.7025	1.15921	0.0381
47	Sainte-Genevieve-de-Berthier	Union CDA	20.21400	0.6646	1.08475	0.0357
48	Sainte-Genevieve-de-Berthier	Enbridge CDA	18.86198	0.6201	0.99742	0.0328
49	Sainte-Genevieve-de-Berthier	Union EDA	11.89809	0.3912	0.54761	0.0180
50	Sainte-Genevieve-de-Berthier	Enbridge EDA	11.32960	0.3725	0.51091	0.0168
51	Sainte-Genevieve-de-Berthier	KPUC EDA	12.29989	0.4044	0.57357	0.0189
52	Sainte-Genevieve-de-Berthier	GMIT EDA	6.96998	0.2292	0.22929	0.0075
53	Sainte-Genevieve-de-Berthier	Enbridge SWDA	24.88114	0.8180	1.38619	0.0456
54	Sainte-Genevieve-de-Berthier	Union SWDA	24.96600	0.8208	1.39169	0.0458
55	Sainte-Genevieve-de-Berthier	Chippawa	22.70543	0.7465	1.24568	0.0410
56	Sainte-Genevieve-de-Berthier	Cornwall	8.38070	0.2755	0.32041	0.0105
57	Sainte-Genevieve-de-Berthier	East Hereford	10.22882	0.3363	0.43980	0.0145
58	Sainte-Genevieve-de-Berthier	Emerson 1	60.18029	1.9785	3.66621	0.1205
59	Sainte-Genevieve-de-Berthier	Emerson 2	60.18029	1.9785	3.66621	0.1205
60	Sainte-Genevieve-de-Berthier	Iroquois	9.60406	0.3158	0.39943	0.0131
61	Sainte-Genevieve-de-Berthier	Kirkwall	20.40898	0.6710	1.09735	0.0361
62	Sainte-Genevieve-de-Berthier	Napierville	9.15755	0.3011	0.37061	0.0122
63	Sainte-Genevieve-de-Berthier	Niagara Falls	22.64886	0.7446	1.24202	0.0408
64	Sainte-Genevieve-de-Berthier	North Bay Junction	19.38089	0.6372	1.03095	0.0339
65	Sainte-Genevieve-de-Berthier	Philipsburg	9.57152	0.3147	0.39735	0.0131
66	Sainte-Genevieve-de-Berthier	Spruce	56.81651	1.8679	3.44895	0.1134
67	Sainte-Genevieve-de-Berthier	St. Clair	25.44567	0.8366	1.42268	0.0468
68	Sainte-Genevieve-de-Berthier	Welwyn	66.07565	2.1724	4.04702	0.1331
69	Sainte-Genevieve-de-Berthier	Dawn Export	24.88114	0.8180	1.38619	0.0456
70	Sainte-Genevieve-de-Berthier	Union Parkway Belt	19.50347	0.6412	1.03885	0.0342
71	Sainte-Genevieve-de-Berthier	Union CDA (Amended)	20.94948	0.6888	1.13227	0.0372
72	Sainte-Genevieve-de-Berthier	Union ECDA	19.77631	0.6502	1.05649	0.0347
73	Sainte-Genevieve-de-Berthier	Enbridge Parkway CDA	19.50347	0.6412	1.03885	0.0342
74	Sainte-Genevieve-de-Berthier	Enbridge CDA (Amended)	18.80206	0.6182	0.99356	0.0327
75	Shackleton	Empress	4.51992	0.1486	0.17684	0.0058
76	Shackleton	TransGas SSDA	8.86859	0.2916	0.55954	0.0184

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Shackleton	Centram SSDA	11.93702	0.3925	0.82954	0.0273
2	Shackleton	Centram MDA	16.63214	0.5468	1.24270	0.0409
3	Shackleton	Centrat MDA	18.73302	0.6159	1.42759	0.0469
4	Shackleton	Union WDA	27.51765	0.9047	2.20061	0.0723
5	Shackleton	Nipigon WDA	30.10429	0.9897	2.42824	0.0798
6	Shackleton	Union NDA	43.19349	1.4201	3.58009	0.1177
7	Shackleton	Calstock NDA	35.85851	1.1789	2.93459	0.0965
8	Shackleton	Tunis NDA	40.38877	1.3279	3.33327	0.1096
9	Shackleton	GMIT NDA	44.11725	1.4504	3.66136	0.1204
10	Shackleton	Union SSMDA	39.02732	1.2831	3.21344	0.1056
11	Shackleton	Union NCDA	52.06512	1.7117	4.11419	0.1353
12	Shackleton	Union CDA	53.68998	1.7652	4.24948	0.1397
13	Shackleton	Enbridge CDA	54.60126	1.7951	4.32534	0.1422
14	Shackleton	Union EDA	57.64202	1.8951	4.57854	0.1505
15	Shackleton	Enbridge EDA	56.38338	1.8537	4.47372	0.1471
16	Shackleton	KPUC EDA	58.85351	1.9349	4.67939	0.1538
17	Shackleton	GMIT EDA	60.48080	1.9884	4.81488	0.1583
18	Shackleton	Enbridge SWDA	49.42313	1.6249	3.89419	0.1280
19	Shackleton	Union SWDA	49.35682	1.6227	3.88868	0.1278
20	Shackleton	Chippawa	54.98421	1.8077	4.35721	0.1433
21	Shackleton	Cornwall	57.37313	1.8862	4.55613	0.1498
22	Shackleton	East Hereford	63.92275	2.1016	5.10147	0.1677
23	Shackleton	Emerson 1	19.10045	0.6280	1.45991	0.0480
24	Shackleton	Emerson 2	19.10045	0.6280	1.45991	0.0480
25	Shackleton	Iroquois	56.76206	1.8662	4.50524	0.1481
26	Shackleton	Kirkwall	52.89215	1.7389	4.18303	0.1375
27	Shackleton	Napierville	60.19793	1.9791	4.79135	0.1575
28	Shackleton	Niagara Falls	54.94041	1.8063	4.35355	0.1431
29	Shackleton	North Bay Junction	46.21113	1.5193	3.84561	0.1264
30	Shackleton	Philipsburg	60.51913	1.9897	4.81808	0.1584
31	Shackleton	Spruce	18.73302	0.6159	1.42759	0.0469
32	Shackleton	St. Clair	46.34861	1.5238	3.85770	0.1268
33	Shackleton	Welwyn	11.93702	0.3925	0.82954	0.0273
34	Shackleton	Dawn Export	49.42313	1.6249	3.89419	0.1280
35	Shackleton	Union Parkway Belt	53.59478	1.7620	4.24153	0.1394
36	Shackleton	Union CDA (Amended)	53.49562	1.7588	4.23326	0.1392
37	Shackleton	Union ECDA	53.80617	1.7690	4.25914	0.1400
38	Shackleton	Enbridge Parkway CDA	53.59478	1.7620	4.24153	0.1394
39	Shackleton	Enbridge CDA (Amended)	54.69555	1.7982	4.33318	0.1425
40	Spruce	Empress	-	0.6689	-	0.0516
41	Spruce	TransGas SSDA	-	0.4207	-	0.0298
42	Spruce	Centram SSDA	-	0.3191	-	0.0208
43	Spruce	Centram MDA	-	0.1662	-	0.0074
44	Spruce	Centrat MDA	-	0.0956	-	0.0012
45	Spruce	Union WDA	-	0.3844	-	0.0266
46	Spruce	Nipigon WDA	-	0.4695	-	0.0341
47	Spruce	Union NDA	-	0.8998	-	0.0719
48	Spruce	Calstock NDA	-	0.6586	-	0.0507
49	Spruce	Tunis NDA	-	0.8076	-	0.0638
50	Spruce	GMIT NDA	-	0.9302	-	0.0746
51	Spruce	Union SSMDA	-	0.8319	-	0.0659
52	Spruce	Union NCDA	-	1.1619	-	0.0895
53	Spruce	Union CDA	-	1.2808	-	0.0994
54	Spruce	Enbridge CDA	-	1.2655	-	0.0981
55	Spruce	Union EDA	-	1.3474	-	0.1049
56	Spruce	Enbridge EDA	-	1.3043	-	0.1013
57	Spruce	KPUC EDA	-	1.3851	-	0.1081
58	Spruce	GMIT EDA	-	1.4385	-	0.1125
59	Spruce	Enbridge SWDA	-	1.1480	-	0.0883
60	Spruce	Union SWDA	-	1.1459	-	0.0881
61	Spruce	Chippawa	-	1.3309	-	0.1035
62	Spruce	Cornwall	-	1.3364	-	0.1040
63	Spruce	East Hereford	-	1.5517	-	0.1219
64	Spruce	Emerson 1	-	0.1768	-	0.0083
65	Spruce	Emerson 2	-	0.1768	-	0.0083
66	Spruce	Iroquois	-	1.3163	-	0.1023
67	Spruce	Kirkwall	-	1.2621	-	0.0978
68	Spruce	Napierville	-	1.4293	-	0.1117
69	Spruce	Niagara Falls	-	1.3294	-	0.1034
70	Spruce	North Bay Junction	-	0.9990	-	0.0806
71	Spruce	Philipsburg	-	1.4398	-	0.1126
72	Spruce	Spruce	-	0.0956	-	0.0012
73	Spruce	St. Clair	-	1.0726	-	0.0871
74	Spruce	Welwyn	-	0.3191	-	0.0208
75	Spruce	Dawn Export	-	1.1480	-	0.0883
76	Spruce	Union Parkway Belt	-	1.2731	-	0.0987

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Spruce	Union CDA (Amended)	-	1.2819	-	0.0995
2	Spruce	Union ECDA	-	1.2801	-	0.0993
3	Spruce	Enbridge Parkway CDA	-	1.2731	-	0.0987
4	Spruce	Enbridge CDA (Amended)	-	1.2648	-	0.0980
5	SS. Marie	Empress	40.45082	1.3299	3.33871	0.1098
6	SS. Marie	TransGas SSDA	32.90293	1.0817	2.67451	0.0879
7	SS. Marie	Centram SSDA	29.81107	0.9801	2.40242	0.0790
8	SS. Marie	Centram MDA	25.13329	0.8263	1.99080	0.0655
9	SS. Marie	Centrat MDA	25.11626	0.8257	1.98930	0.0654
10	SS. Marie	Union WDA	33.86166	1.1133	2.75889	0.0907
11	SS. Marie	Nipigon WDA	36.48753	1.1996	2.98995	0.0983
12	SS. Marie	Union NDA	26.52546	0.8721	2.11331	0.0695
13	SS. Marie	Calstock NDA	33.86075	1.1132	2.75881	0.0907
14	SS. Marie	Tunis NDA	29.33049	0.9643	2.36015	0.0776
15	SS. Marie	GMIT NDA	25.96397	0.8536	2.06391	0.0679
16	SS. Marie	Union SSMDA	3.09642	0.1018	0.05158	0.0017
17	SS. Marie	Union NCDA	21.62017	0.7108	1.57925	0.0519
18	SS. Marie	Union CDA	18.33152	0.6027	1.30542	0.0429
19	SS. Marie	Enbridge CDA	19.45967	0.6398	1.39935	0.0460
20	SS. Marie	Union EDA	24.16695	0.7945	1.79132	0.0589
21	SS. Marie	Enbridge EDA	26.69488	0.8776	2.00178	0.0658
22	SS. Marie	KPUC EDA	23.82416	0.7833	1.76273	0.0580
23	SS. Marie	GMIT EDA	29.97198	0.9854	2.27466	0.0748
24	SS. Marie	Enbridge SWDA	14.06406	0.4624	0.95011	0.0312
25	SS. Marie	Union SWDA	13.99836	0.4602	0.94462	0.0311
26	SS. Marie	Chippawa	19.62544	0.6452	1.41314	0.0465
27	SS. Marie	Cornwall	26.86430	0.8832	2.01588	0.0663
28	SS. Marie	East Hereford	33.41393	1.0985	2.56124	0.0842
29	SS. Marie	Emerson 1	22.64734	0.7446	1.77204	0.0583
30	SS. Marie	Emerson 2	22.64734	0.7446	1.77204	0.0583
31	SS. Marie	Iroquois	26.28426	0.8641	1.96759	0.0647
32	SS. Marie	Kirkwall	17.53338	0.5764	1.23896	0.0407
33	SS. Marie	Napierville	29.68910	0.9761	2.25110	0.0740
34	SS. Marie	Niagara Falls	19.58103	0.6438	1.40948	0.0463
35	SS. Marie	North Bay Junction	23.50843	0.7729	1.84781	0.0607
36	SS. Marie	Philipsburg	30.01030	0.9866	2.27783	0.0749
37	SS. Marie	Spruce	25.11626	0.8257	1.98930	0.0654
38	SS. Marie	St. Clair	12.89271	0.4239	0.91363	0.0300
39	SS. Marie	Welwyn	29.81107	0.9801	2.40242	0.0790
40	SS. Marie	Dawn Export	14.06406	0.4624	0.95011	0.0312
41	SS. Marie	Union Parkway Belt	18.23601	0.5995	1.29746	0.0427
42	SS. Marie	Union CDA (Amended)	18.13655	0.5963	1.28919	0.0424
43	SS. Marie	Union ECDA	18.44740	0.6065	1.31508	0.0432
44	SS. Marie	Enbridge Parkway CDA	18.23601	0.5995	1.29746	0.0427
45	SS. Marie	Enbridge CDA (Amended)	19.57465	0.6436	1.40893	0.0463
46	St. Clair	Empress	65.34017	2.1482	3.99950	0.1315
47	St. Clair	TransGas SSDA	55.05660	1.8101	3.33528	0.1097
48	St. Clair	Centram SSDA	50.84450	1.6716	3.06321	0.1007
49	St. Clair	Centram MDA	44.47099	1.4621	2.65157	0.0872
50	St. Clair	Centrat MDA	44.44848	1.4613	2.65010	0.0871
51	St. Clair	Union WDA	44.45122	1.4614	2.65028	0.0871
52	St. Clair	Nipigon WDA	40.36900	1.3272	2.38659	0.0785
53	St. Clair	Union NDA	22.53601	0.7409	1.23475	0.0406
54	St. Clair	Calstock NDA	32.52971	1.0695	1.88022	0.0618
55	St. Clair	Tunis NDA	26.35726	0.8665	1.48156	0.0487
56	St. Clair	GMIT NDA	21.77103	0.7158	1.18532	0.0390
57	St. Clair	Union SSMDA	17.82082	0.5859	0.93018	0.0306
58	St. Clair	Union NCDA	14.26755	0.4691	0.70064	0.0230
59	St. Clair	Union CDA	10.02868	0.3297	0.42686	0.0140
60	St. Clair	Enbridge CDA	11.48260	0.3775	0.52077	0.0171
61	St. Clair	Union EDA	17.55072	0.5770	0.91273	0.0300
62	St. Clair	Enbridge EDA	20.80865	0.6841	1.12314	0.0369
63	St. Clair	KPUC EDA	17.10846	0.5625	0.88415	0.0291
64	St. Clair	GMIT EDA	25.03353	0.8230	1.39605	0.0459
65	St. Clair	Enbridge SWDA	4.52722	0.1488	0.07153	0.0024
66	St. Clair	Union SWDA	4.44175	0.1460	0.06601	0.0022
67	St. Clair	Chippawa	11.69582	0.3845	0.53455	0.0176
68	St. Clair	Cornwall	21.02795	0.6913	1.13731	0.0374
69	St. Clair	East Hereford	29.47071	0.9689	1.68265	0.0553
70	St. Clair	Emerson 1	41.08501	1.3507	2.43284	0.0800
71	St. Clair	Emerson 2	41.08501	1.3507	2.43284	0.0800
72	St. Clair	Iroquois	20.02329	0.6583	1.07245	0.0353
73	St. Clair	Kirkwall	8.99908	0.2959	0.36037	0.0118
74	St. Clair	Napierville	24.66913	0.8110	1.37252	0.0451
75	St. Clair	Niagara Falls	11.63924	0.3827	0.53089	0.0175
76	St. Clair	North Bay Junction	18.42520	0.6058	0.96922	0.0319

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	St. Clair	Philipsburg	25.08310	0.8247	1.39925	0.0460
2	St. Clair	Spruce	44.44848	1.4613	2.65010	0.0871
3	St. Clair	St. Clair	3.96268	0.1303	0.03504	0.0012
4	St. Clair	Welwyn	50.84450	1.6716	3.06321	0.1007
5	St. Clair	Dawn Export	4.52722	0.1488	0.07153	0.0024
6	St. Clair	Union Parkway Belt	9.90488	0.3256	0.41887	0.0138
7	St. Clair	Union CDA (Amended)	9.77683	0.3214	0.41060	0.0135
8	St. Clair	Union ECDA	10.17803	0.3346	0.43649	0.0144
9	St. Clair	Enbridge Parkway CDA	9.90488	0.3256	0.41887	0.0138
10	St. Clair	Enbridge CDA (Amended)	11.63042	0.3824	0.53034	0.0174
11	Steeleman	Empress	9.58794	0.3152	0.62283	0.0205
12	Steeleman	TransGas SSDA	3.97150	0.1306	0.12857	0.0042
13	Steeleman	Centram SSDA	6.86869	0.2258	0.38355	0.0126
14	Steeleman	Centram MDA	11.56381	0.3802	0.79671	0.0262
15	Steeleman	Centrat MDA	13.66530	0.4493	0.98162	0.0323
16	Steeleman	Union WDA	22.44963	0.7381	1.75464	0.0577
17	Steeleman	Nipigon WDA	25.03626	0.8231	1.98226	0.0652
18	Steeleman	Union NDA	38.12608	1.2535	3.13414	0.1030
19	Steeleman	Calstock NDA	30.79049	1.0123	2.48863	0.0818
20	Steeleman	Tunis NDA	35.32075	1.1612	2.88729	0.0949
21	Steeleman	GMIT NDA	39.04922	1.2838	3.21539	0.1057
22	Steeleman	Union SSMDA	33.95930	1.1165	2.76747	0.0910
23	Steeleman	Union NCDA	46.70905	1.5356	3.66820	0.1206
24	Steeleman	Union CDA	48.33421	1.5891	3.80352	0.1250
25	Steeleman	Enbridge CDA	49.24489	1.6190	3.87935	0.1275
26	Steeleman	Union EDA	52.28655	1.7190	4.13262	0.1359
27	Steeleman	Enbridge EDA	51.02700	1.6776	4.02775	0.1324
28	Steeleman	KPUC EDA	53.49683	1.7588	4.23340	0.1392
29	Steeleman	GMIT EDA	55.12443	1.8123	4.36891	0.1436
30	Steeleman	Enbridge SWDA	44.06675	1.4488	3.44820	0.1134
31	Steeleman	Union SWDA	44.00045	1.4466	3.44271	0.1132
32	Steeleman	Chippawa	49.62753	1.6316	3.91123	0.1286
33	Steeleman	Cornwall	52.01645	1.7101	4.11014	0.1351
34	Steeleman	East Hereford	58.56668	1.9255	4.65550	0.1531
35	Steeleman	Emerson 1	14.03243	0.4613	1.01393	0.0333
36	Steeleman	Emerson 2	14.03243	0.4613	1.01393	0.0333
37	Steeleman	Iroquois	51.40569	1.6901	4.05926	0.1335
38	Steeleman	Kirkwall	47.53608	1.5628	3.73705	0.1229
39	Steeleman	Napierville	54.84186	1.8030	4.34536	0.1429
40	Steeleman	Niagara Falls	49.58373	1.6302	3.90757	0.1285
41	Steeleman	North Bay Junction	41.14280	1.3526	3.39962	0.1118
42	Steeleman	Philipsburg	55.16275	1.8136	4.37209	0.1437
43	Steeleman	Spruce	13.66530	0.4493	0.98162	0.0323
44	Steeleman	St. Clair	41.28028	1.3572	3.41172	0.1122
45	Steeleman	Welwyn	6.86869	0.2258	0.38355	0.0126
46	Steeleman	Dawn Export	44.06675	1.4488	3.44820	0.1134
47	Steeleman	Union Parkway Belt	48.23840	1.5859	3.79555	0.1248
48	Steeleman	Union CDA (Amended)	48.13894	1.5827	3.78728	0.1245
49	Steeleman	Union ECDA	48.45040	1.5929	3.81318	0.1254
50	Steeleman	Enbridge Parkway CDA	48.23840	1.5859	3.79555	0.1248
51	Steeleman	Enbridge CDA (Amended)	49.33918	1.6221	3.88719	0.1278
52	Success	Empress	5.26604	0.1731	0.24249	0.0080
53	Success	TransGas SSDA	8.14437	0.2678	0.49579	0.0163
54	Success	Centram SSDA	11.19090	0.3679	0.76389	0.0251
55	Success	Centram MDA	15.88541	0.5223	1.17699	0.0387
56	Success	Centrat MDA	17.98720	0.5914	1.36194	0.0448
57	Success	Union WDA	26.77184	0.8802	2.13499	0.0702
58	Success	Nipigon WDA	29.35847	0.9652	2.36260	0.0777
59	Success	Union NDA	42.44798	1.3956	3.51445	0.1155
60	Success	Calstock NDA	35.11239	1.1544	2.86895	0.0943
61	Success	Tunis NDA	39.64265	1.3033	3.26761	0.1074
62	Success	GMIT NDA	43.37113	1.4259	3.59571	0.1182
63	Success	Union SSMDA	38.28120	1.2586	3.14780	0.1035
64	Success	Union NCDA	51.27672	1.6858	4.04852	0.1331
65	Success	Union CDA	52.90188	1.7392	4.18385	0.1376
66	Success	Enbridge CDA	53.81256	1.7692	4.25967	0.1400
67	Success	Union EDA	56.85362	1.8692	4.51286	0.1484
68	Success	Enbridge EDA	55.59498	1.8278	4.40809	0.1449
69	Success	KPUC EDA	58.06511	1.9090	4.61374	0.1517
70	Success	GMIT EDA	59.69180	1.9625	4.74918	0.1561
71	Success	Enbridge SWDA	48.63443	1.5989	3.82852	0.1259
72	Success	Union SWDA	48.56842	1.5968	3.82301	0.1257
73	Success	Chippawa	54.19550	1.7818	4.29156	0.1411
74	Success	Cornwall	56.58473	1.8603	4.49048	0.1476
75	Success	East Hereford	63.13435	2.0757	5.03583	0.1656
76	Success	Emerson 1	18.35433	0.6034	1.39426	0.0458

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Success	Emerson 2	18.35433	0.6034	1.39426	0.0458
2	Success	Iroquois	55.97336	1.8402	4.43959	0.1460
3	Success	Kirkwall	52.10375	1.7130	4.11737	0.1354
4	Success	Napierville	59.40983	1.9532	4.72570	0.1554
5	Success	Niagara Falls	54.15170	1.7803	4.28790	0.1410
6	Success	North Bay Junction	45.46501	1.4947	3.77995	0.1243
7	Success	Philipsburg	59.73073	1.9638	4.75243	0.1562
8	Success	Spruce	17.98720	0.5914	1.36194	0.0448
9	Success	St. Clair	45.60249	1.4993	3.79206	0.1247
10	Success	Welwyn	11.19090	0.3679	0.76389	0.0251
11	Success	Dawn Export	48.63443	1.5989	3.82852	0.1259
12	Success	Union Parkway Belt	52.80638	1.7361	4.17587	0.1373
13	Success	Union CDA (Amended)	52.70691	1.7328	4.16762	0.1370
14	Success	Union ECDA	53.01777	1.7431	4.19349	0.1379
15	Success	Enbridge Parkway CDA	52.80638	1.7361	4.17587	0.1373
16	Success	Enbridge CDA (Amended)	53.90685	1.7723	4.26751	0.1403
17	Suffield 2	Empress	2.94403	0.0968	0.03815	0.0013
18	Suffield 2	TransGas SSDA	10.42105	0.3426	0.69613	0.0229
19	Suffield 2	Centram SSDA	13.51291	0.4443	0.96823	0.0318
20	Suffield 2	Centram MDA	18.20711	0.5986	1.38130	0.0454
21	Suffield 2	Centrat MDA	20.30921	0.6677	1.56628	0.0515
22	Suffield 2	Union WDA	29.09385	0.9565	2.33931	0.0769
23	Suffield 2	Nipigon WDA	31.68048	1.0416	2.56693	0.0844
24	Suffield 2	Union NDA	44.76999	1.4719	3.71880	0.1223
25	Suffield 2	Calstock NDA	37.43440	1.2307	3.07328	0.1010
26	Suffield 2	Tunis NDA	41.96466	1.3797	3.47195	0.1141
27	Suffield 2	GMIT NDA	45.69313	1.5022	3.80005	0.1249
28	Suffield 2	Union SSMDA	40.60321	1.3349	3.35213	0.1102
29	Suffield 2	Union NCDA	53.73104	1.7665	4.25289	0.1398
30	Suffield 2	Union CDA	55.35590	1.8199	4.38817	0.1443
31	Suffield 2	Enbridge CDA	56.26658	1.8499	4.46398	0.1468
32	Suffield 2	Union EDA	59.30855	1.9499	4.71728	0.1551
33	Suffield 2	Enbridge EDA	58.04960	1.9085	4.61245	0.1516
34	Suffield 2	KPUC EDA	60.51913	1.9897	4.81808	0.1584
35	Suffield 2	GMIT EDA	62.14673	2.0432	4.95357	0.1629
36	Suffield 2	Enbridge SWDA	51.08844	1.6796	4.03286	0.1326
37	Suffield 2	Union SWDA	51.02274	1.6775	4.02737	0.1324
38	Suffield 2	Chippawa	56.64983	1.8625	4.49590	0.1478
39	Suffield 2	Cornwall	59.03875	1.9410	4.69482	0.1544
40	Suffield 2	East Hereford	65.58837	2.1563	5.24016	0.1723
41	Suffield 2	Emerson 1	20.67634	0.6798	1.59860	0.0526
42	Suffield 2	Emerson 2	20.67634	0.6798	1.59860	0.0526
43	Suffield 2	Iroquois	58.42738	1.9209	4.64393	0.1527
44	Suffield 2	Kirkwall	54.55777	1.7937	4.32171	0.1421
45	Suffield 2	Napierville	61.86385	2.0339	4.93004	0.1621
46	Suffield 2	Niagara Falls	56.60572	1.8610	4.49224	0.1477
47	Suffield 2	North Bay Junction	47.78702	1.5711	3.98428	0.1310
48	Suffield 2	Philipsburg	62.18505	2.0444	4.95677	0.1630
49	Suffield 2	Spruce	20.30921	0.6677	1.56628	0.0515
50	Suffield 2	St. Clair	47.92450	1.5756	3.99639	0.1314
51	Suffield 2	Welwyn	13.51291	0.4443	0.96823	0.0318
52	Suffield 2	Dawn Export	51.08844	1.6796	4.03286	0.1326
53	Suffield 2	Union Parkway Belt	55.26039	1.8168	4.38021	0.1440
54	Suffield 2	Union CDA (Amended)	55.16123	1.8135	4.37195	0.1437
55	Suffield 2	Union ECDA	55.47179	1.8237	4.39783	0.1446
56	Suffield 2	Enbridge Parkway CDA	55.26039	1.8168	4.38021	0.1440
57	Suffield 2	Enbridge CDA (Amended)	56.36087	1.8530	4.47187	0.1470
58	TransGas SSDA	Empress	-	0.3438	-	0.0230
59	TransGas SSDA	TransGas SSDA	-	0.0956	-	0.0012
60	TransGas SSDA	Centram SSDA	-	0.1973	-	0.0101
61	TransGas SSDA	Centram MDA	-	0.3516	-	0.0237
62	TransGas SSDA	Centrat MDA	-	0.4207	-	0.0298
63	TransGas SSDA	Union WDA	-	0.7095	-	0.0552
64	TransGas SSDA	Nipigon WDA	-	0.7946	-	0.0627
65	TransGas SSDA	Union NDA	-	1.2248	-	0.1005
66	TransGas SSDA	Calstock NDA	-	0.9838	-	0.0793
67	TransGas SSDA	Tunis NDA	-	1.1327	-	0.0924
68	TransGas SSDA	GMIT NDA	-	1.2553	-	0.1032
69	TransGas SSDA	Union SSMDA	-	1.0879	-	0.0885
70	TransGas SSDA	Union NCDA	-	1.5055	-	0.1181
71	TransGas SSDA	Union CDA	-	1.5589	-	0.1225
72	TransGas SSDA	Enbridge CDA	-	1.5888	-	0.1250
73	TransGas SSDA	Union EDA	-	1.6889	-	0.1334
74	TransGas SSDA	Enbridge EDA	-	1.6474	-	0.1299
75	TransGas SSDA	KPUC EDA	-	1.7286	-	0.1367
76	TransGas SSDA	GMIT EDA	-	1.7821	-	0.1411

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	TransGas SSDA	Enbridge SWDA	-	1.4186	-	0.1109
2	TransGas SSDA	Union SWDA	-	1.4164	-	0.1107
3	TransGas SSDA	Chippawa	-	1.6014	-	0.1261
4	TransGas SSDA	Cornwall	-	1.6800	-	0.1326
5	TransGas SSDA	East Hereford	-	1.8953	-	0.1505
6	TransGas SSDA	Emerson 1	-	0.4328	-	0.0308
7	TransGas SSDA	Emerson 2	-	0.4328	-	0.0308
8	TransGas SSDA	Iroquois	-	1.6599	-	0.1309
9	TransGas SSDA	Kirkwall	-	1.5326	-	0.1203
10	TransGas SSDA	Napierville	-	1.7729	-	0.1403
11	TransGas SSDA	Niagara Falls	-	1.6000	-	0.1260
12	TransGas SSDA	North Bay Junction	-	1.3241	-	0.1093
13	TransGas SSDA	Philipsburg	-	1.7834	-	0.1412
14	TransGas SSDA	Spruce	-	0.4207	-	0.0298
15	TransGas SSDA	St. Clair	-	1.3286	-	0.1097
16	TransGas SSDA	Welwyn	-	0.1973	-	0.0101
17	TransGas SSDA	Dawn Export	-	1.4186	-	0.1109
18	TransGas SSDA	Union Parkway Belt	-	1.5558	-	0.1223
19	TransGas SSDA	Union CDA (Amended)	-	1.5525	-	0.1220
20	TransGas SSDA	Union ECDA	-	1.5627	-	0.1229
21	TransGas SSDA	Enbridge Parkway CDA	-	1.5558	-	0.1223
22	TransGas SSDA	Enbridge CDA (Amended)	-	1.5919	-	0.1253
23	Tunis NDA	Empress	-	1.3808	-	0.1142
24	Tunis NDA	TransGas SSDA	-	1.1327	-	0.0924
25	Tunis NDA	Centram SSDA	-	1.0310	-	0.0835
26	Tunis NDA	Centram MDA	-	0.8782	-	0.0700
27	Tunis NDA	Centrat MDA	-	0.8076	-	0.0638
28	Tunis NDA	Union WDA	-	0.5426	-	0.0405
29	Tunis NDA	Nipigon WDA	-	0.4338	-	0.0309
30	Tunis NDA	Union NDA	-	0.2051	-	0.0108
31	Tunis NDA	Calstock NDA	-	0.2446	-	0.0143
32	Tunis NDA	Tunis NDA	-	0.0956	-	0.0012
33	Tunis NDA	GMIT NDA	-	0.2182	-	0.0119
34	Tunis NDA	Union SSMDA	-	0.9705	-	0.0781
35	Tunis NDA	Union NCDA	-	0.4094	-	0.0268
36	Tunis NDA	Union CDA	-	0.5388	-	0.0376
37	Tunis NDA	Enbridge CDA	-	0.5169	-	0.0358
38	Tunis NDA	Union EDA	-	0.5949	-	0.0423
39	Tunis NDA	Enbridge EDA	-	0.5518	-	0.0387
40	Tunis NDA	KPUC EDA	-	0.6326	-	0.0454
41	Tunis NDA	GMIT EDA	-	0.6861	-	0.0499
42	Tunis NDA	Enbridge SWDA	-	0.6578	-	0.0475
43	Tunis NDA	Union SWDA	-	0.6600	-	0.0477
44	Tunis NDA	Chippawa	-	0.6023	-	0.0429
45	Tunis NDA	Cornwall	-	0.5839	-	0.0414
46	Tunis NDA	East Hereford	-	0.7993	-	0.0593
47	Tunis NDA	Emerson 1	-	0.8888	-	0.0709
48	Tunis NDA	Emerson 2	-	0.8888	-	0.0709
49	Tunis NDA	Iroquois	-	0.5638	-	0.0397
50	Tunis NDA	Kirkwall	-	0.5438	-	0.0380
51	Tunis NDA	Napierville	-	0.6768	-	0.0491
52	Tunis NDA	Niagara Falls	-	0.6009	-	0.0428
53	Tunis NDA	North Bay Junction	-	0.2870	-	0.0180
54	Tunis NDA	Philipsburg	-	0.6874	-	0.0500
55	Tunis NDA	Spruce	-	0.8076	-	0.0638
56	Tunis NDA	St. Clair	-	0.6361	-	0.0487
57	Tunis NDA	Welwyn	-	1.0310	-	0.0835
58	Tunis NDA	Dawn Export	-	0.6578	-	0.0475
59	Tunis NDA	Union Parkway Belt	-	0.5207	-	0.0361
60	Tunis NDA	Union CDA (Amended)	-	0.5576	-	0.0392
61	Tunis NDA	Union ECDA	-	0.5276	-	0.0367
62	Tunis NDA	Enbridge Parkway CDA	-	0.5207	-	0.0361
63	Tunis NDA	Enbridge CDA (Amended)	-	0.5165	-	0.0357
64	Union CDA	Empress	-	2.3476	-	0.1444
65	Union CDA	TransGas SSDA	-	2.0095	-	0.1225
66	Union CDA	Centram SSDA	-	1.8710	-	0.1136
67	Union CDA	Centram MDA	-	1.6615	-	0.1001
68	Union CDA	Centrat MDA	-	1.6510	-	0.0994
69	Union CDA	Union WDA	-	1.3034	-	0.0769
70	Union CDA	Nipigon WDA	-	1.1552	-	0.0674
71	Union CDA	Union NDA	-	0.5689	-	0.0295
72	Union CDA	Calstock NDA	-	0.8975	-	0.0507
73	Union CDA	Tunis NDA	-	0.6945	-	0.0376
74	Union CDA	GMIT NDA	-	0.5438	-	0.0279
75	Union CDA	Union SSMDA	-	0.7853	-	0.0435
76	Union CDA	Union NCDA	-	0.2971	-	0.0119



Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Union CDA	Union CDA	-	0.1303	-	0.0012
2	Union CDA	Enbridge CDA	-	0.2057	-	0.0060
3	Union CDA	Union EDA	-	0.4050	-	0.0189
4	Union CDA	Enbridge EDA	-	0.5121	-	0.0258
5	Union CDA	KPUC EDA	-	0.3905	-	0.0180
6	Union CDA	GMIT EDA	-	0.6510	-	0.0348
7	Union CDA	Enbridge SWDA	-	0.3111	-	0.0128
8	Union CDA	Union SWDA	-	0.3139	-	0.0130
9	Union CDA	Chippawa	-	0.2142	-	0.0066
10	Union CDA	Cornwall	-	0.5193	-	0.0263
11	Union CDA	East Hereford	-	0.7969	-	0.0442
12	Union CDA	Emerson 1	-	1.5502	-	0.0929
13	Union CDA	Emerson 2	-	1.5502	-	0.0929
14	Union CDA	Iroquois	-	0.4863	-	0.0241
15	Union CDA	Kirkwall	-	0.1641	-	0.0033
16	Union CDA	Napierville	-	0.6390	-	0.0340
17	Union CDA	Niagara Falls	-	0.2123	-	0.0065
18	Union CDA	North Bay Junction	-	0.4338	-	0.0208
19	Union CDA	Philipsburg	-	0.6526	-	0.0349
20	Union CDA	Spruce	-	1.6510	-	0.0994
21	Union CDA	St. Clair	-	0.3297	-	0.0140
22	Union CDA	Welwyn	-	1.8710	-	0.1136
23	Union CDA	Dawn Export	-	0.3111	-	0.0128
24	Union CDA	Union Parkway Belt	-	0.1536	-	0.0027
25	Union CDA	Union CDA (Amended)	-	0.1582	-	0.0030
26	Union CDA	Union ECDA	-	0.1459	-	0.0022
27	Union CDA	Enbridge Parkway CDA	-	0.1536	-	0.0027
28	Union CDA	Enbridge CDA (Amended)	-	0.2105	-	0.0063
29	Union CDA (Amended)	Empress	-	2.3393	-	0.1438
30	Union CDA (Amended)	TransGas SSDA	-	2.0013	-	0.1220
31	Union CDA (Amended)	Centram SSDA	-	1.8628	-	0.1131
32	Union CDA (Amended)	Centram MDA	-	1.6532	-	0.0995
33	Union CDA (Amended)	Centrat MDA	-	1.6525	-	0.0995
34	Union CDA (Amended)	Union WDA	-	1.3276	-	0.0785
35	Union CDA (Amended)	Nipigon WDA	-	1.1794	-	0.0689
36	Union CDA (Amended)	Union NDA	-	0.5932	-	0.0311
37	Union CDA (Amended)	Calstock NDA	-	0.9217	-	0.0523
38	Union CDA (Amended)	Tunis NDA	-	0.7187	-	0.0392
39	Union CDA (Amended)	GMIT NDA	-	0.5679	-	0.0294
40	Union CDA (Amended)	Union SSMDA	-	0.7771	-	0.0429
41	Union CDA (Amended)	Union NCDA	-	0.3213	-	0.0135
42	Union CDA (Amended)	Union CDA	-	0.1582	-	0.0030
43	Union CDA (Amended)	Enbridge CDA	-	0.2226	-	0.0071
44	Union CDA (Amended)	Union EDA	-	0.4292	-	0.0205
45	Union CDA (Amended)	Enbridge EDA	-	0.5363	-	0.0274
46	Union CDA (Amended)	KPUC EDA	-	0.4147	-	0.0195
47	Union CDA (Amended)	GMIT EDA	-	0.6752	-	0.0364
48	Union CDA (Amended)	Enbridge SWDA	-	0.3029	-	0.0123
49	Union CDA (Amended)	Union SWDA	-	0.3057	-	0.0125
50	Union CDA (Amended)	Chippawa	-	0.1934	-	0.0052
51	Union CDA (Amended)	Cornwall	-	0.5435	-	0.0278
52	Union CDA (Amended)	East Hereford	-	0.8211	-	0.0458
53	Union CDA (Amended)	Emerson 1	-	1.5419	-	0.0923
54	Union CDA (Amended)	Emerson 2	-	1.5419	-	0.0923
55	Union CDA (Amended)	Iroquois	-	0.5105	-	0.0257
56	Union CDA (Amended)	Kirkwall	-	0.1559	-	0.0028
57	Union CDA (Amended)	Napierville	-	0.6632	-	0.0356
58	Union CDA (Amended)	Niagara Falls	-	0.1915	-	0.0051
59	Union CDA (Amended)	North Bay Junction	-	0.4579	-	0.0223
60	Union CDA (Amended)	Philipsburg	-	0.6768	-	0.0365
61	Union CDA (Amended)	Spruce	-	1.6525	-	0.0995
62	Union CDA (Amended)	St. Clair	-	0.3214	-	0.0135
63	Union CDA (Amended)	Welwyn	-	1.8628	-	0.1131
64	Union CDA (Amended)	Dawn Export	-	0.3029	-	0.0123
65	Union CDA (Amended)	Union Parkway Belt	-	0.1778	-	0.0042
66	Union CDA (Amended)	Union CDA (Amended)	-	0.1303	-	0.0012
67	Union CDA (Amended)	Union ECDA	-	0.1719	-	0.0038
68	Union CDA (Amended)	Enbridge Parkway CDA	-	0.1778	-	0.0042
69	Union CDA (Amended)	Enbridge CDA (Amended)	-	0.2268	-	0.0074
70	Union ECDA	Empress	-	2.3525	-	0.1447
71	Union ECDA	TransGas SSDA	-	2.0144	-	0.1229
72	Union ECDA	Centram SSDA	-	1.8759	-	0.1139
73	Union ECDA	Centram MDA	-	1.6664	-	0.1004
74	Union ECDA	Centrat MDA	-	1.6501	-	0.0993
75	Union ECDA	Union WDA	-	1.2891	-	0.0760
76	Union ECDA	Nipigon WDA	-	1.1408	-	0.0664

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Union ECDA	Union NDA	-	0.5545	-	0.0286
2	Union ECDA	Calstock NDA	-	0.8831	-	0.0498
3	Union ECDA	Tunis NDA	-	0.6802	-	0.0367
4	Union ECDA	GMIT NDA	-	0.5294	-	0.0269
5	Union ECDA	Union SSMDA	-	0.7902	-	0.0438
6	Union ECDA	Union NCDA	-	0.2827	-	0.0110
7	Union ECDA	Union CDA	-	0.1459	-	0.0022
8	Union ECDA	Enbridge CDA	-	0.1957	-	0.0054
9	Union ECDA	Union EDA	-	0.3907	-	0.0180
10	Union ECDA	Enbridge EDA	-	0.4977	-	0.0249
11	Union ECDA	KPUC EDA	-	0.3761	-	0.0170
12	Union ECDA	GMIT EDA	-	0.6366	-	0.0339
13	Union ECDA	Enbridge SWDA	-	0.3161	-	0.0132
14	Union ECDA	Union SWDA	-	0.3188	-	0.0133
15	Union ECDA	Chippawa	-	0.2266	-	0.0074
16	Union ECDA	Cornwall	-	0.5049	-	0.0254
17	Union ECDA	East Hereford	-	0.7825	-	0.0433
18	Union ECDA	Emerson 1	-	1.5551	-	0.0932
19	Union ECDA	Emerson 2	-	1.5551	-	0.0932
20	Union ECDA	Iroquois	-	0.4719	-	0.0232
21	Union ECDA	Kirkwall	-	0.1690	-	0.0037
22	Union ECDA	Napierville	-	0.6246	-	0.0331
23	Union ECDA	Niagara Falls	-	0.2247	-	0.0073
24	Union ECDA	North Bay Junction	-	0.4194	-	0.0198
25	Union ECDA	Philipsburg	-	0.6383	-	0.0340
26	Union ECDA	Spruce	-	1.6501	-	0.0993
27	Union ECDA	St. Clair	-	0.3346	-	0.0144
28	Union ECDA	Welwyn	-	1.8759	-	0.1139
29	Union ECDA	Dawn Export	-	0.3161	-	0.0132
30	Union ECDA	Union Parkway Belt	-	0.1393	-	0.0017
31	Union ECDA	Union CDA (Amended)	-	0.1719	-	0.0038
32	Union ECDA	Union ECDA	-	0.1303	-	0.0012
33	Union ECDA	Enbridge Parkway CDA	-	0.1393	-	0.0017
34	Union ECDA	Enbridge CDA (Amended)	-	0.2009	-	0.0057
35	Union Dawn	Empress	65.90470	2.1667	4.03598	0.1327
36	Union Dawn	TransGas SSDA	55.62205	1.8287	3.37181	0.1109
37	Union Dawn	Centram SSDA	51.40903	1.6902	3.09969	0.1019
38	Union Dawn	Centram MDA	45.03613	1.4806	2.68805	0.0884
39	Union Dawn	Centrat MDA	45.01332	1.4799	2.68658	0.0883
40	Union Dawn	Union WDA	43.98311	1.4460	2.62003	0.0861
41	Union Dawn	Nipigon WDA	39.80386	1.3086	2.35010	0.0773
42	Union Dawn	Union NDA	21.97209	0.7224	1.19830	0.0394
43	Union Dawn	Calstock NDA	31.96457	1.0509	1.84374	0.0606
44	Union Dawn	Tunis NDA	25.79242	0.8480	1.44508	0.0475
45	Union Dawn	GMIT NDA	21.20620	0.6972	1.14883	0.0378
46	Union Dawn	Union SSMDA	18.38596	0.6045	0.96666	0.0318
47	Union Dawn	Union NCDA	13.70301	0.4505	0.66418	0.0218
48	Union Dawn	Union CDA	9.46323	0.3111	0.39035	0.0128
49	Union Dawn	Enbridge CDA	10.91806	0.3590	0.48430	0.0159
50	Union Dawn	Union EDA	16.98558	0.5584	0.87623	0.0288
51	Union Dawn	Enbridge EDA	20.24351	0.6655	1.08668	0.0357
52	Union Dawn	KPUC EDA	16.54332	0.5439	0.84766	0.0279
53	Union Dawn	GMIT EDA	24.46899	0.8045	1.35959	0.0447
54	Union Dawn	Enbridge SWDA	3.96268	0.1303	0.03504	0.0012
55	Union Dawn	Union SWDA	4.04755	0.1331	0.04054	0.0013
56	Union Dawn	Chippawa	11.13098	0.3660	0.49807	0.0164
57	Union Dawn	Cornwall	20.46281	0.6728	1.10082	0.0362
58	Union Dawn	East Hereford	28.90587	0.9503	1.64617	0.0541
59	Union Dawn	Emerson 1	41.64985	1.3693	2.46932	0.0812
60	Union Dawn	Emerson 2	41.64985	1.3693	2.46932	0.0812
61	Union Dawn	Iroquois	19.45876	0.6397	1.03597	0.0341
62	Union Dawn	Kirkwall	8.43454	0.2773	0.32389	0.0106
63	Union Dawn	Napierville	24.10430	0.7925	1.33604	0.0439
64	Union Dawn	Niagara Falls	11.07440	0.3641	0.49441	0.0163
65	Union Dawn	North Bay Junction	17.86067	0.5872	0.93274	0.0307
66	Union Dawn	Philipsburg	24.51827	0.8061	1.36277	0.0448
67	Union Dawn	Spruce	45.01332	1.4799	2.68658	0.0883
68	Union Dawn	St. Clair	4.52722	0.1488	0.07153	0.0024
69	Union Dawn	Welwyn	51.40903	1.6902	3.09969	0.1019
70	Union Dawn	Dawn Export	3.96268	0.1303	0.03504	0.0012
71	Union Dawn	Union Parkway Belt	9.34035	0.3071	0.38239	0.0126
72	Union Dawn	Union CDA (Amended)	9.21230	0.3029	0.37414	0.0123
73	Union Dawn	Union ECDA	9.61319	0.3161	0.40002	0.0132
74	Union Dawn	Enbridge Parkway CDA	9.34035	0.3071	0.38239	0.0126
75	Union Dawn	Enbridge CDA (Amended)	11.06558	0.3638	0.49384	0.0162
76	Union EDA	Empress	-	2.5151	-	0.1552



Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Union EDA	TransGas SSDA	-	2.1770	-	0.1334
2	Union EDA	Centram SSDA	-	2.0385	-	0.1244
3	Union EDA	Centram MDA	-	1.8291	-	0.1109
4	Union EDA	Centrat MDA	-	1.7369	-	0.1049
5	Union EDA	Union WDA	-	1.3757	-	0.0816
6	Union EDA	Nipigon WDA	-	1.2276	-	0.0720
7	Union EDA	Union NDA	-	0.6413	-	0.0342
8	Union EDA	Calstock NDA	-	0.9698	-	0.0554
9	Union EDA	Tunis NDA	-	0.7669	-	0.0423
10	Union EDA	GMIT NDA	-	0.6161	-	0.0325
11	Union EDA	Union SSMDA	-	1.0326	-	0.0594
12	Union EDA	Union NCDA	-	0.4492	-	0.0218
13	Union EDA	Union CDA	-	0.4050	-	0.0189
14	Union EDA	Enbridge CDA	-	0.3605	-	0.0160
15	Union EDA	Union EDA	-	0.1303	-	0.0012
16	Union EDA	Enbridge EDA	-	0.2679	-	0.0100
17	Union EDA	KPUC EDA	-	0.1933	-	0.0052
18	Union EDA	GMIT EDA	-	0.3772	-	0.0171
19	Union EDA	Enbridge SWDA	-	0.5584	-	0.0288
20	Union EDA	Union SWDA	-	0.5613	-	0.0290
21	Union EDA	Chippawa	-	0.4869	-	0.0242
22	Union EDA	Cornwall	-	0.2459	-	0.0086
23	Union EDA	East Hereford	-	0.5235	-	0.0266
24	Union EDA	Emerson 1	-	1.7746	-	0.1074
25	Union EDA	Emerson 2	-	1.7746	-	0.1074
26	Union EDA	Iroquois	-	0.2179	-	0.0068
27	Union EDA	Kirkwall	-	0.4114	-	0.0193
28	Union EDA	Napierville	-	0.3656	-	0.0164
29	Union EDA	Niagara Falls	-	0.4851	-	0.0241
30	Union EDA	North Bay Junction	-	0.5061	-	0.0254
31	Union EDA	Philipsburg	-	0.3792	-	0.0172
32	Union EDA	Spruce	-	1.7369	-	0.1049
33	Union EDA	St. Clair	-	0.5770	-	0.0300
34	Union EDA	Welwyn	-	2.0385	-	0.1244
35	Union EDA	Dawn Export	-	0.5584	-	0.0288
36	Union EDA	Union Parkway Belt	-	0.3817	-	0.0174
37	Union EDA	Union CDA (Amended)	-	0.4292	-	0.0205
38	Union EDA	Union ECDA	-	0.3907	-	0.0180
39	Union EDA	Enbridge Parkway CDA	-	0.3817	-	0.0174
40	Union EDA	Enbridge CDA (Amended)	-	0.3584	-	0.0159
41	Union NCDA	Empress	-	2.2787	-	0.1399
42	Union NCDA	TransGas SSDA	-	1.9407	-	0.1181
43	Union NCDA	Centram SSDA	-	1.8022	-	0.1091
44	Union NCDA	Centram MDA	-	1.5938	-	0.0957
45	Union NCDA	Centrat MDA	-	1.4977	-	0.0895
46	Union NCDA	Union WDA	-	1.1367	-	0.0662
47	Union NCDA	Nipigon WDA	-	0.9884	-	0.0566
48	Union NCDA	Union NDA	-	0.4020	-	0.0187
49	Union NCDA	Calstock NDA	-	0.7307	-	0.0399
50	Union NCDA	Tunis NDA	-	0.5278	-	0.0268
51	Union NCDA	GMIT NDA	-	0.3769	-	0.0171
52	Union NCDA	Union SSMDA	-	0.9247	-	0.0525
53	Union NCDA	Union NCDA	-	0.1303	-	0.0012
54	Union NCDA	Union CDA	-	0.2971	-	0.0119
55	Union NCDA	Enbridge CDA	-	0.2688	-	0.0101
56	Union NCDA	Union EDA	-	0.4492	-	0.0218
57	Union NCDA	Enbridge EDA	-	0.5238	-	0.0266
58	Union NCDA	KPUC EDA	-	0.4380	-	0.0210
59	Union NCDA	GMIT EDA	-	0.6888	-	0.0372
60	Union NCDA	Enbridge SWDA	-	0.4505	-	0.0218
61	Union NCDA	Union SWDA	-	0.4533	-	0.0220
62	Union NCDA	Chippawa	-	0.3790	-	0.0172
63	Union NCDA	Cornwall	-	0.5572	-	0.0287
64	Union NCDA	East Hereford	-	0.8348	-	0.0467
65	Union NCDA	Emerson 1	-	1.6082	-	0.0966
66	Union NCDA	Emerson 2	-	1.6082	-	0.0966
67	Union NCDA	Iroquois	-	0.5260	-	0.0267
68	Union NCDA	Kirkwall	-	0.3035	-	0.0123
69	Union NCDA	Napierville	-	0.6769	-	0.0365
70	Union NCDA	Niagara Falls	-	0.3771	-	0.0171
71	Union NCDA	North Bay Junction	-	0.2670	-	0.0100
72	Union NCDA	Philipsburg	-	0.6905	-	0.0373
73	Union NCDA	Spruce	-	1.4977	-	0.0895
74	Union NCDA	St. Clair	-	0.4691	-	0.0230
75	Union NCDA	Welwyn	-	1.8022	-	0.1091
76	Union NCDA	Dawn Export	-	0.4505	-	0.0218

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Union NCDA	Union Parkway Belt	-	0.2737	-	0.0104
2	Union NCDA	Union CDA (Amended)	-	0.3213	-	0.0135
3	Union NCDA	Union ECDA	-	0.2827	-	0.0110
4	Union NCDA	Enbridge Parkway CDA	-	0.2737	-	0.0104
5	Union NCDA	Enbridge CDA (Amended)	-	0.2683	-	0.0101
6	Union NDA	Empress	-	1.4730	-	0.1224
7	Union NDA	TransGas SSDA	-	1.2248	-	0.1005
8	Union NDA	Centram SSDA	-	1.1232	-	0.0916
9	Union NDA	Centram MDA	-	0.9702	-	0.0781
10	Union NDA	Centrat MDA	-	0.8998	-	0.0719
11	Union NDA	Union WDA	-	0.6346	-	0.0486
12	Union NDA	Nipigon WDA	-	0.5260	-	0.0390
13	Union NDA	Union NDA	-	0.0956	-	0.0012
14	Union NDA	Calstock NDA	-	0.3368	-	0.0224
15	Union NDA	Tunis NDA	-	0.2051	-	0.0108
16	Union NDA	GMIT NDA	-	0.1905	-	0.0095
17	Union NDA	Union SSMDA	-	0.8783	-	0.0700
18	Union NDA	Union NCDA	-	0.3118	-	0.0187
19	Union NDA	Union CDA	-	0.4413	-	0.0295
20	Union NDA	Enbridge CDA	-	0.4193	-	0.0277
21	Union NDA	Union EDA	-	0.4975	-	0.0342
22	Union NDA	Enbridge EDA	-	0.4547	-	0.0306
23	Union NDA	KPUC EDA	-	0.5356	-	0.0373
24	Union NDA	GMIT EDA	-	0.5888	-	0.0418
25	Union NDA	Enbridge SWDA	-	0.5604	-	0.0394
26	Union NDA	Union SWDA	-	0.5626	-	0.0396
27	Union NDA	Chippawa	-	0.5049	-	0.0348
28	Union NDA	Cornwall	-	0.4869	-	0.0333
29	Union NDA	East Hereford	-	0.7022	-	0.0512
30	Union NDA	Emerson 1	-	0.9810	-	0.0791
31	Union NDA	Emerson 2	-	0.9810	-	0.0791
32	Union NDA	Iroquois	-	0.4668	-	0.0316
33	Union NDA	Kirkwall	-	0.4463	-	0.0299
34	Union NDA	Napierville	-	0.5798	-	0.0410
35	Union NDA	Niagara Falls	-	0.5034	-	0.0347
36	Union NDA	North Bay Junction	-	0.1952	-	0.0099
37	Union NDA	Philipsburg	-	0.5903	-	0.0419
38	Union NDA	Spruce	-	0.8998	-	0.0719
39	Union NDA	St. Clair	-	0.5438	-	0.0406
40	Union NDA	Welwyn	-	1.1232	-	0.0916
41	Union NDA	Dawn Export	-	0.5604	-	0.0394
42	Union NDA	Union Parkway Belt	-	0.4232	-	0.0280
43	Union NDA	Union CDA (Amended)	-	0.4602	-	0.0311
44	Union NDA	Union ECDA	-	0.4302	-	0.0286
45	Union NDA	Enbridge Parkway CDA	-	0.4232	-	0.0280
46	Union NDA	Enbridge CDA (Amended)	-	0.4190	-	0.0276
47	Union Parkway Belt	Empress	71.28237	2.3435	4.38333	0.1441
48	Union Parkway Belt	TransGas SSDA	60.99971	2.0055	3.71915	0.1223
49	Union Parkway Belt	Centram SSDA	56.78670	1.8670	3.44704	0.1133
50	Union Parkway Belt	Centram MDA	50.41380	1.6574	3.03541	0.0998
51	Union Parkway Belt	Centrat MDA	49.91831	1.6412	3.00341	0.0987
52	Union Parkway Belt	Union WDA	38.93577	1.2801	2.29401	0.0754
53	Union Parkway Belt	Nipigon WDA	34.42680	1.1318	2.00276	0.0658
54	Union Parkway Belt	Union NDA	16.59381	0.5456	0.85092	0.0280
55	Union Parkway Belt	Calstock NDA	26.58690	0.8741	1.49639	0.0492
56	Union Parkway Belt	Tunis NDA	20.41506	0.6712	1.09773	0.0361
57	Union Parkway Belt	GMIT NDA	15.82823	0.5204	0.80147	0.0263
58	Union Parkway Belt	Union SSMDA	23.76363	0.7813	1.31401	0.0432
59	Union Parkway Belt	Union NCDA	8.32535	0.2737	0.31683	0.0104
60	Union Parkway Belt	Union CDA	4.67322	0.1536	0.08094	0.0027
61	Union Parkway Belt	Enbridge CDA	5.76943	0.1897	0.15176	0.0050
62	Union Parkway Belt	Union EDA	11.60883	0.3817	0.52893	0.0174
63	Union Parkway Belt	Enbridge EDA	14.86645	0.4888	0.73933	0.0243
64	Union Parkway Belt	KPUC EDA	11.16596	0.3671	0.50032	0.0164
65	Union Parkway Belt	GMIT EDA	19.09133	0.6277	1.01224	0.0333
66	Union Parkway Belt	Enbridge SWDA	9.34035	0.3071	0.38239	0.0126
67	Union Parkway Belt	Union SWDA	9.42552	0.3099	0.38790	0.0128
68	Union Parkway Belt	Chippawa	7.16465	0.2356	0.24188	0.0080
69	Union Parkway Belt	Cornwall	15.08515	0.4960	0.75348	0.0248
70	Union Parkway Belt	East Hereford	23.52820	0.7735	1.29882	0.0427
71	Union Parkway Belt	Emerson 1	47.02751	1.5461	2.81666	0.0926
72	Union Parkway Belt	Emerson 2	47.02751	1.5461	2.81666	0.0926
73	Union Parkway Belt	Iroquois	14.08109	0.4629	0.68863	0.0226
74	Union Parkway Belt	Kirkwall	4.86819	0.1601	0.09354	0.0031
75	Union Parkway Belt	Napierville	18.72693	0.6157	0.98870	0.0325
76	Union Parkway Belt	Niagara Falls	7.10807	0.2337	0.23822	0.0078

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Union Parkway Belt	North Bay Junction	12.48300	0.4104	0.58539	0.0192
2	Union Parkway Belt	Philipsburg	19.14090	0.6293	1.01543	0.0334
3	Union Parkway Belt	Spruce	49.91831	1.6412	3.00341	0.0987
4	Union Parkway Belt	St. Clair	9.90488	0.3256	0.41887	0.0138
5	Union Parkway Belt	Welwyn	56.78670	1.8670	3.44704	0.1133
6	Union Parkway Belt	Dawn Export	9.34035	0.3071	0.38239	0.0126
7	Union Parkway Belt	Union Parkway Belt	3.96268	0.1303	0.03504	0.0012
8	Union Parkway Belt	Union CDA (Amended)	5.40869	0.1778	0.12846	0.0042
9	Union Parkway Belt	Union ECDA	4.23552	0.1393	0.05268	0.0017
10	Union Parkway Belt	Enbridge Parkway CDA	3.96268	0.1303	0.03504	0.0012
11	Union Parkway Belt	Enbridge CDA (Amended)	5.93916	0.1953	0.16269	0.0053
12	Union SSMDA	Empress	-	1.3361	-	0.1103
13	Union SSMDA	TransGas SSDA	-	1.0879	-	0.0885
14	Union SSMDA	Centram SSDA	-	0.9863	-	0.0795
15	Union SSMDA	Centram MDA	-	0.8325	-	0.0660
16	Union SSMDA	Centrat MDA	-	0.8319	-	0.0659
17	Union SSMDA	Union WDA	-	1.1194	-	0.0912
18	Union SSMDA	Nipigon WDA	-	1.2058	-	0.0988
19	Union SSMDA	Union NDA	-	0.8783	-	0.0700
20	Union SSMDA	Calstock NDA	-	1.1194	-	0.0912
21	Union SSMDA	Tunis NDA	-	0.9705	-	0.0781
22	Union SSMDA	GMIT NDA	-	0.8598	-	0.0684
23	Union SSMDA	Union SSMDA	-	0.0956	-	0.0012
24	Union SSMDA	Union NCDA	-	0.7173	-	0.0525
25	Union SSMDA	Union CDA	-	0.6092	-	0.0435
26	Union SSMDA	Enbridge CDA	-	0.6463	-	0.0465
27	Union SSMDA	Union EDA	-	0.8011	-	0.0594
28	Union SSMDA	Enbridge EDA	-	0.8842	-	0.0664
29	Union SSMDA	KPUC EDA	-	0.7898	-	0.0585
30	Union SSMDA	GMIT EDA	-	0.9919	-	0.0753
31	Union SSMDA	Enbridge SWDA	-	0.4689	-	0.0318
32	Union SSMDA	Union SWDA	-	0.4667	-	0.0316
33	Union SSMDA	Chippawa	-	0.6517	-	0.0470
34	Union SSMDA	Cornwall	-	0.8898	-	0.0668
35	Union SSMDA	East Hereford	-	1.1051	-	0.0847
36	Union SSMDA	Emerson 1	-	0.7508	-	0.0588
37	Union SSMDA	Emerson 2	-	0.7508	-	0.0588
38	Union SSMDA	Iroquois	-	0.8641	-	0.0647
39	Union SSMDA	Kirkwall	-	0.5830	-	0.0413
40	Union SSMDA	Napierville	-	0.9826	-	0.0746
41	Union SSMDA	Niagara Falls	-	0.6503	-	0.0469
42	Union SSMDA	North Bay Junction	-	0.7791	-	0.0613
43	Union SSMDA	Philipsburg	-	0.9932	-	0.0754
44	Union SSMDA	Spruce	-	0.8319	-	0.0659
45	Union SSMDA	St. Clair	-	0.4300	-	0.0306
46	Union SSMDA	Welwyn	-	0.9863	-	0.0795
47	Union SSMDA	Dawn Export	-	0.4689	-	0.0318
48	Union SSMDA	Union Parkway Belt	-	0.6061	-	0.0432
49	Union SSMDA	Union CDA (Amended)	-	0.6028	-	0.0429
50	Union SSMDA	Union ECDA	-	0.6130	-	0.0438
51	Union SSMDA	Enbridge Parkway CDA	-	0.6061	-	0.0432
52	Union SSMDA	Enbridge CDA (Amended)	-	0.6500	-	0.0469
53	Union WDA	Empress	-	0.9577	-	0.0770
54	Union WDA	TransGas SSDA	-	0.7095	-	0.0552
55	Union WDA	Centram SSDA	-	0.6079	-	0.0462
56	Union WDA	Centram MDA	-	0.4549	-	0.0328
57	Union WDA	Centrat MDA	-	0.3844	-	0.0266
58	Union WDA	Union WDA	-	0.0956	-	0.0012
59	Union WDA	Nipigon WDA	-	0.2085	-	0.0111
60	Union WDA	Union NDA	-	0.6346	-	0.0486
61	Union WDA	Calstock NDA	-	0.3936	-	0.0274
62	Union WDA	Tunis NDA	-	0.5426	-	0.0405
63	Union WDA	GMIT NDA	-	0.6651	-	0.0513
64	Union WDA	Union SSMDA	-	1.1194	-	0.0912
65	Union WDA	Union NCDA	-	0.8818	-	0.0662
66	Union WDA	Union CDA	-	1.0111	-	0.0769
67	Union WDA	Enbridge CDA	-	0.9892	-	0.0751
68	Union WDA	Union EDA	-	1.0672	-	0.0816
69	Union WDA	Enbridge EDA	-	1.0242	-	0.0780
70	Union WDA	KPUC EDA	-	1.1049	-	0.0847
71	Union WDA	GMIT EDA	-	1.1584	-	0.0892
72	Union WDA	Enbridge SWDA	-	1.1218	-	0.0861
73	Union WDA	Union SWDA	-	1.1236	-	0.0863
74	Union WDA	Chippawa	-	1.0747	-	0.0822
75	Union WDA	Cornwall	-	1.0563	-	0.0807
76	Union WDA	East Hereford	-	1.2716	-	0.0986

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Union WDA	Emerson 1	-	0.4656	-	0.0337
2	Union WDA	Emerson 2	-	0.4656	-	0.0337
3	Union WDA	Iroquois	-	1.0362	-	0.0790
4	Union WDA	Kirkwall	-	1.0161	-	0.0773
5	Union WDA	Napierville	-	1.1492	-	0.0884
6	Union WDA	Niagara Falls	-	1.0732	-	0.0821
7	Union WDA	North Bay Junction	-	0.7340	-	0.0573
8	Union WDA	Philipsburg	-	1.1597	-	0.0893
9	Union WDA	Spruce	-	0.3844	-	0.0266
10	Union WDA	St. Clair	-	1.0727	-	0.0871
11	Union WDA	Welwyn	-	0.6079	-	0.0462
12	Union WDA	Dawn Export	-	1.1218	-	0.0861
13	Union WDA	Union Parkway Belt	-	0.9930	-	0.0754
14	Union WDA	Union CDA (Amended)	-	1.0299	-	0.0785
15	Union WDA	Union ECDA	-	1.0000	-	0.0760
16	Union WDA	Enbridge Parkway CDA	-	0.9930	-	0.0754
17	Union WDA	Enbridge CDA (Amended)	-	0.9889	-	0.0751
18	Welwyn	Empress	13.54819	0.4454	0.97133	0.0319
19	Welwyn	TransGas SSDA	6.00090	0.1973	0.30717	0.0101
20	Welwyn	Centram SSDA	2.90844	0.0956	0.03504	0.0012
21	Welwyn	Centram MDA	7.60295	0.2500	0.44816	0.0147
22	Welwyn	Centrat MDA	9.70474	0.3191	0.63311	0.0208
23	Welwyn	Union WDA	18.48877	0.6079	1.40610	0.0462
24	Welwyn	Nipigon WDA	21.07571	0.6929	1.63375	0.0537
25	Welwyn	Union NDA	34.16491	1.1232	2.78557	0.0916
26	Welwyn	Calstock NDA	26.82993	0.8821	2.14012	0.0704
27	Welwyn	Tunis NDA	31.36019	1.0310	2.53878	0.0835
28	Welwyn	GMIT NDA	35.08897	1.1536	2.86688	0.0943
29	Welwyn	Union SSMDA	29.99874	0.9863	2.41897	0.0795
30	Welwyn	Union NCDA	42.52341	1.3980	3.31969	0.1091
31	Welwyn	Union CDA	44.14827	1.4515	3.45500	0.1136
32	Welwyn	Enbridge CDA	45.05895	1.4814	3.53080	0.1161
33	Welwyn	Union EDA	48.10092	1.5814	3.78408	0.1244
34	Welwyn	Enbridge EDA	46.84136	1.5400	3.67922	0.1210
35	Welwyn	KPUC EDA	49.31150	1.6212	3.88489	0.1277
36	Welwyn	GMIT EDA	50.93910	1.6747	4.02040	0.1322
37	Welwyn	Enbridge SWDA	39.88081	1.3112	3.09969	0.1019
38	Welwyn	Union SWDA	39.81481	1.3090	3.09418	0.1017
39	Welwyn	Chippawa	45.44220	1.4940	3.56272	0.1171
40	Welwyn	Cornwall	47.83112	1.5725	3.76164	0.1237
41	Welwyn	East Hereford	54.38105	1.7879	4.30700	0.1416
42	Welwyn	Emerson 1	10.07187	0.3311	0.66542	0.0219
43	Welwyn	Emerson 2	10.07187	0.3311	0.66542	0.0219
44	Welwyn	Iroquois	47.21975	1.5524	3.71075	0.1220
45	Welwyn	Kirkwall	43.35014	1.4252	3.38854	0.1114
46	Welwyn	Napierville	50.65592	1.6654	3.99685	0.1314
47	Welwyn	Niagara Falls	45.39840	1.4926	3.55906	0.1170
48	Welwyn	North Bay Junction	37.18255	1.2224	3.05112	0.1003
49	Welwyn	Philipsburg	50.97712	1.6760	4.02358	0.1323
50	Welwyn	Spruce	9.70474	0.3191	0.63311	0.0208
51	Welwyn	St. Clair	37.32003	1.2270	3.06321	0.1007
52	Welwyn	Welwyn	2.90844	0.0956	0.03504	0.0012
53	Welwyn	Dawn Export	39.88081	1.3112	3.09969	0.1019
54	Welwyn	Union Parkway Belt	44.05276	1.4483	3.44704	0.1133
55	Welwyn	Union CDA (Amended)	43.95360	1.4451	3.43879	0.1131
56	Welwyn	Union ECDA	44.26446	1.4553	3.46466	0.1139
57	Welwyn	Enbridge Parkway CDA	44.05276	1.4483	3.44704	0.1133
58	Welwyn	Enbridge CDA (Amended)	45.15324	1.4845	3.53868	0.1163

Notes: (i) Aggregate charges for Mainline transportation service will include the applicable transportation toll, abandonment surcharge, delivery pressure toll (if applicable) and Dawn receipt surcharge (if applicable) pursuant to the Mainline Tariff.

(ii) Any transportation with a Union Dawn receipt point is subject to a Union Dawn Receipt Point Surcharge. Transport under FT, FT-NR, FT-SN and EMB service is subject to the monthly surcharge toll, and other transportation services are subject to the daily equivalent toll. Refer to page 1 for the Union Dawn Receipt Point Surcharge tolls.

(iii) Transportation with receipt points from delivery areas or Spruce is for STFT and IT service only.

(iv) The following delivery points are subject to an additional charge for delivery pressure: Emerson 1 & 2, Union SWDA, Enbridge SWDA, Dawn Export, Niagara Falls, Iroquois, Chippawa, and East Hereford. Refer to page 1 for the delivery pressure toll.

(v) Effective November 1, 2015, the Enbridge CDA is modified such that the Enbridge Parkway meter is removed from the Enbridge CDA and put within a new delivery area called the Enbridge Parkway CDA. The remaining Enbridge CDA meters continue to reside within the Enbridge CDA. Effective November 1, 2016, the Union CDA is modified such that the Union Parkway Belt, Bronte and Burlington meters are removed from the Union CDA. The Bronte and Burlington meters are put within a new delivery area called the Union ECDA, and the Parkway-Union meter will become a new standalone delivery location called Union Parkway Belt. The remaining Union CDA meters, Nanticoke and Hamilton Gate, continue to reside in the Union CDA.

(vi) The following transportation services are subject to the Abandonment Surcharges: FT, FT-NR, STS, STS-L, SSS, FT-SN, MFP, EMB, IT, STFT, and ST-SN. The Daily Equivalent Abandonment Surcharge is only applicable to IT, SSS, STFT, ST-SN, ARPs, Diversions and STS Overrun.



December 5<sup>th</sup>, 2014

Ms. Sheri Young  
Secretary of the Board  
National Energy Board  
517-10<sup>th</sup> Avenue S.W.  
Calgary, Alberta  
T2R 0A8

Dear Ms. Young:

**Re: Land Matters Consultation Initiative (“LMCI”) Stream 3  
MH-001-2013 Reason for Decision – Set-Aside Mechanism (SAM) and Collection  
Mechanism (COM)  
National Energy Board (Board) MO-078-2014  
Compliance Filing: Collection Mechanism**

Pursuant to paragraph 2a (ii) of Board Order MO-078-2014 dated 5 May 2014 Centra Transmission Holdings Inc. (CTHI) respectively submits, attached hereto, the collection mechanism filing (Filing). This Filing sets out CTHI’s Annual Contribution Amount (ACA), the proposed monthly Abandonment Toll (Toll) calculated pursuant to the Board’s MH-01-2013 Reason for Decision dated May 2014<sup>1</sup>, and a revised Transportation Toll Schedule (TTS) effective January 1, 2015. CTHI makes this submission and revised TTS on the basis that no changes are required to CTHI’s General Terms and Conditions of its Tariff. To the extent the Board directs CTHI to make changes to the General Terms and Conditions of its Tariff, CTHI will complete the changes, provide Shippers with draft changes for review and comment, and file such changes with the Board.

CTHI has notified Shippers of its collection mechanism and provided them the Annual Contribution Amount and revised Transportation Toll Schedules as included in this Filing for review and consideration. CTHI Shippers have raised no concerns with the Filing to date. By way of the MH-001-2013 Reasons for Decision, the Board directed companies to advise that any interested persons may file comments with the Board about this filing within 14 calendar days of the date of this filing<sup>2</sup>.

Please do not hesitate to call if you have any questions.

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<sup>1</sup> NEB Reasons for Decision, Set-aside and Collection Mechanism MH-001-2013 in Pipeline Abandonment Financial Issues, May 29, 2014, paragraphs 4.2.3 and 4.4.4

<sup>2</sup> MH-001-2013 Decision, page 100



Sincerely,

Joe P. Brophy  
Vice President & General Manager  
[jbrophy@efgroupllc.com](mailto:jbrophy@efgroupllc.com)  
Telephone: (519) 652-5357  
FAX: (519) 652-0428

cc: Mr. Todd Karry- President, Energy Fundamentals Group  
Mr. Jason Gillet – Union Gas Limited  
Mr. Warren Reinisch – Union Gas Limited  
Ms. Laurie MacDonald – Centra Gas Manitoba  
Mr. Patrick Loupin– Boise Paper  
Mr. Shawn Gillespie – Minnesota Energy Resources Inc.

Attachment

**Centra Transmission Holdings Inc.**  
**MH-001-2013 and Order MO-078-2014**

**2015 Annual Contribution Amount Collection Form**

Computation of Annual Contribution

<b>Step 1: Provide total cost estimate for abandonment</b>		<b>Comments</b>	<b>Calculations</b>
Line 1	Abandonment cost estimate in dollars in 2010	Approved 14 Feb 2014	\$ 36,757,760.43
<b>Step 2: Covert to Future Value</b>			
Line 2	Inflation Rate	Provided	2%
Line 3	Years Remaining in Collection Period	Approved 14 Feb 2014	40
Line 4	Years Elapsed between year of cost estimate and current date	Calculation	5
Line 5	Number of years from cost estimate date to end of Collection Period (line 4 + line 5)	Calculation	45
Line 6	Future Value of Abandonment cost estimate = Line 1 * (1+Line 2) <sup>Line 5</sup>	Calculation	\$ 89,610,060.84
<b>Step 3: Calculate company-specific after tax rate of return on funds collected</b>			
Line 7	Pre-tax rate of return on funds collected	Approved 14 Feb 2014	3.50%
Line 8	Adjustment for variable trustee expenses and investment management fees	RTCC Agreement, Filed with NEB 2 September 2014	0.30%
Line 9	Company-specific tax rate on investment income	Approved TG-005-2013	30.70%
Line 10	After tax rate of return on funds collected = (1-Line 9) * (Line 7 - Line 8)	Calculation	2.22%
<b>Step 4: Compute Annual Contribution Amount</b>			
Line 11	Annual Contribution Amount, before fixed trustee expense adjustment = (Line 6 * Line 10)/[(1 + Line 10) <sup>Line 3</sup> - 1]	Calculation	\$ 1,414,862.10
Line 12	Adjustment for fixed trustee expenses	RTCC Agreement, Filed with NEB 2 September 2014	29,700.00
Line 13	Annual Contribution Amount to Trust (Line 11 + Line 12)	Calculation	\$ 1,444,562.10

**Centra Transmission Holdings Inc.**  
**Transportation Toll Schedule**  
**Effective January 1, 2015**  
Updated

Particulars		(\$/10 <sup>3</sup> m <sup>3</sup> /Mo.)
Domestic Demand Charge	(Existing)	446.771
Export Demand Charge	(Existing)	445.769
Monthly Abandonment Toll <sup>1</sup>	(Proposed)	152.481

<sup>1</sup>The monthly abandonment toll is calculated by dividing the annual contribution amount (\$1,444,562 - Schedule 1) by the annual billing determinants, where annual billing determinants are determined by multiplying the monthly contracted maximum delivery quantity by the 12 months in a year. Each shipper will have the abandonment toll applied to their monthly billing cycle.





June 5, 2015

Ms. Sheri Young  
Secretary of the Board  
National Energy Board  
517-10<sup>th</sup> Avenue S.W.  
Calgary, Alberta  
T2R 0A8

Dear Ms. Young:

**Re: Centra Transmission Holdings Inc. (CTHI), Revised Abandonment Cost Estimate.  
Compliance Filing: Collection Mechanism**

Pursuant to the National Energy Board (Board) letter dated 21 May 2015, where the Board directed CTHI to file a tariff to incorporate a revised annual contribution amount (ACA) and abandonment toll (Toll), CTHI respectively submits, attached hereto, CTHI's revised ACA and Toll. The ACA was calculated pursuant to the Computation of Annual Contribution as outlined in Appendix XIV of the Reasons For Decision, Set-aside and collection mechanisms, MH-001-2013 adjusted for abandonment funds collected to date and the remaining collection period.

In advance of this Filing CTHI provided Shippers the revised ACA and Toll as included in this Filing for review and consideration. CTHI's Shippers have raised no concerns with the Filing to date.

Please do not hesitate to call if you have any questions.

Sincerely,

Joe P. Brophy  
Vice President & General Manager  
[jbrophy@efgrouppllc.com](mailto:jbrophy@efgrouppllc.com)  
Telephone: (519) 652-5357  
FAX: (519) 652-0428

cc: Mr. Todd Karry- President, Energy Fundamentals Group  
Mr. Jason Gillet – Union Gas Limited  
Ms. Laurie MacDonald – Centra Gas Manitoba  
Mr. Patrick Loupin– Boise Paper  
Mr. Shawn Gillespie – Minnesota Energy Resources Inc.

Attachment

**Centra Transmission Holdings Inc.**  
**MH-001-2013 and Order MO-078-2014**

**Schedule 1**

**2015 Annual Contribution Amount Collection Form - updated May 2015**

Computation of Annual Contribution

<b>Step 1: Provide total cost estimate for abandonment</b>		<b>Comments</b>	<b>Calculations</b>
Line 1	Revised Abandonment cost estimate in 2010 dollars	Approved 21 May 2015	\$ 25,936,102
Line 1.1	Year elapse between year of cost estimate and January 1, 2015		5
Line 1.2	Inflation rate	Provided	2%
Line 1.3	January 1, 2015 Value of Abandonment Cost Estimate = Line 1 * (1+Line 1.2) <sup>Line 1.1</sup>	Calculation	\$ 28,635,553
Line 1.4	Less Abandonment Funds Collected January 2015 to April 2015	4 months at \$120,380.18	\$ (481,521)
Line 1.5	Remaining Abandonment Cost Estimate to collect in 2015 dollars		\$ 28,154,032
<b>Step 2: Convert to Future Value</b>			
Line 2	Inflation Rate	Provided	2%
Line 3	Years Remaining in Collection Period	Approved 14 Feb 2014	40.00
Line 3.1	Years collected	4 months in 2015	-0.33
Line 4	Years Elapsed between year of cost estimate and current date (calculated in Line 1.1 to Line 1.3)	Calculation	0
Line 5	Number of years from cost estimate date to end of Collection Period (line 3 + line 3.1 + line 4)	Calculation	39.67
Line 6	Future Value of Abandonment cost estimate = Line 1.5 * (1+Line 2) <sup>Line 5</sup>	Calculation	\$ 61,756,225
<b>Step 3: Calculate company-specific after tax rate of return on funds collected</b>			
Line 7	Pre-tax rate of return on funds collected	Approved 14 Feb 2014	3.50%
Line 8	Adjustment for variable trustee expenses and investment management fees	RTCC Agreement, Filed with NEB 2 September 2014	0.30%
Line 9	Company-specific tax rate on investment income	Approved TG-005-2013	30.70%
Line 10	After tax rate of return on funds collected = (1 - Line 9) * (Line 7 - Line 8)	Calculation	2.22%
<b>Step 4: Compute Annual Contribution Amount</b>			
Line 11	Annual Contribution Amount, before fixed trustee expense adjustment = (Line 6 * Line 10)/[(1 + Line 10) <sup>Line 5</sup> - 1]	Calculation	\$ 987,389
Line 12	Adjustment for fixed trustee expenses	RTCC Agreement, Filed with NEB 2 September 2014	\$ 24,817
Line 13	Annual Contribution Amount to Trust (Line 11 + Line 12)	Calculation	\$ 1,012,206

**Centra Transmission Holdings Inc.**  
**Transportation Toll Schedule**  
**Proposed Revision**

Particulars		(\$/10 <sup>3</sup> m <sup>3</sup> /Mo.)
Domestic Demand Charge	(Existing)	446.771
Export Demand Charge	(Existing)	445.769
Monthly Abandonment Toll <sup>1</sup>	(Proposed)	106.844

<sup>1</sup>The monthly abandonment toll is calculated by dividing the annual contribution amount (\$1,012,206 - Schedule 1) by the annual billing determinants, where annual billing determinants are determined by multiplying the monthly contracted maximum delivery quantity by the 12 months in a year. Each shipper will have the abandonment toll applied to their monthly billing cycle.

TransCanada PipeLines Limited  
Final Mainline Transportation Tolls Effective July 1, 2015 (Amended November 1, 2015) and  
Final Abandonment Surcharges Effective January 1, 2016

**Storage Transportation Service**

Line No	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
	(a)	(b)	(c)	(d)	(e)
1	Centram MDA	5.23197	0.17201	0.26971	0.0088
2	Union WDA	39.71839	1.30581	2.45373	0.0805
3	Union NDA	16.92748	0.55652	0.90892	0.0298
4	Union EDA	11.84212	0.38933	0.56423	0.0185
5	KPUC EDA	11.39043	0.37448	0.53360	0.0175
6	GMIT EDA	19.47488	0.64027	1.08161	0.0355
7	Enbridge CDA	6.05839	0.19918	0.17218	0.0057
8	Enbridge EDA	15.16514	0.49858	0.78946	0.0259
9	Cornwall	15.38840	0.50592	0.80461	0.0264
10	Philipsburg	19.52568	0.64194	1.08502	0.0356

**Firm Transportation - Short Notice**

Line No	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
	(a)	(b)	(c)	(d)	(e)
11	Kirkwall to Thorold CDA	6.98093	0.22951	0.19172	0.0063
12	Union Parkway Belt to Goreway CDA	5.19730	0.17087	0.08183	0.0027
13	Union Parkway Belt to Victoria Square #2 CDA	6.13839	0.20181	0.13601	0.0045
14	Union Parkway Belt to Schomberg #2 CDA	6.07695	0.19979	0.13980	0.0046

**Enhanced Market Balancing Service**

Line No	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
	(a)	(b)	(c)	(d)	(e)
15	Union Parkway Belt to Union EDA	13.02633	0.42826	0.56423	0.0185

**Delivery Pressure**

Line No	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)
	(a)	(b)	(c)

16 Average Delivery Pressure Toll 1.01227 0.03328

Note: Delivery Pressure toll applies to the following locations: Emerson 1 , Emerson 2, Union SWDA, Enbridge SWDA, Dawn Export, Niagara Falls, Iroquois, Chippawa and East Hereford.  
The Daily Equivalent Toll is only applicable to STS Injections, IT, Diversions, STFT and SSS.

**Union Dawn Receipt Point Surcharge**

Line No	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)
	(a)	(b)	(c)
17	Union Dawn Receipt Point Surcharge	0.10724	0.00353

**Short Notice Balancing (SNB) Service**

Line No.	Particulars	Monthly Toll (\$/GJ/Month)	Daily Equivalent (\$/GJ)
	(a)	(b)	(c)

18 SNB Toll

Note: This SNB Toll is a representative toll for the Eastern Region. 3.42005 0.1124

**Energy Deficient Gas Allowance (EDGA) Service**

Line No	Particulars	Capacity Charge (\$/GJ/D)
	(a)	(b)
19	Western Section	1.52481
20	Eastern Section	0.41865

Note: The EDGA Service capacity charge for the Western Section is the effective Empress to North Bay Junction FT Toll and the capacity charge for the Eastern Section is the effective Parkway to North Bay Junction FT Toll.  
The EDGA Service fuel charge for the Western Section includes the effective Empress to North Bay Junction monthly fuel ratio and the fuel charge for the Eastern Section includes the effective Parkway to North Bay Junction monthly fuel ratio.

TransCanada PipeLines Limited  
Final Mainline Transportation Tolls Effective July 1, 2015 (Amended November 1, 2015) and  
Final Abandonment Surcharges Effective January 1, 2016

- Notes:
- (i) Aggregate charges for Mainline transportation service will include the applicable transportation toll, abandonment surcharge, delivery pressure toll (if applicable) and Dawn receipt surcharge (if applicable) pursuant to the Mainline Tariff.
  - (ii) Any transportation with a Union Dawn receipt point is subject to a Union Dawn Receipt Point Surcharge. Transport under FT, FT-NR, FT-SN and EMB service is subject to the monthly surcharge toll, and other transportation services are subject to the daily equivalent toll. Refer to page 1 for the Union Dawn Receipt Point Surcharge tolls.
  - (iii) Transportation with receipt points from delivery areas or Spruce is for STFT and IT service only.
  - (iv) The following delivery points are subject to an additional charge for delivery pressure: Emerson 1 & 2, Union SWDA, Enbridge SWDA, Dawn Export, Niagara Falls, Iroquois, Chippawa, and East Hereford. Refer to page 1 for the delivery pressure toll.
  - (v) Effective November 1, 2016, the Union CDA is modified such that the Union Parkway Belt, Bronte and Burlington meters are removed from the Union CDA. The Bronte and Burlington meters are put within a new delivery area called the Union ECDA, and the Parkway-Union meter will become a new standalone delivery location called Union Parkway Belt. The remaining Union CDA meters, Nanticoke and Hamilton Gate, continue to reside in the Union CDA.
  - (vi) The following transportation services are subject to the Abandonment Surcharges: FT, FT-NR, STS, STS-L, SSS, FT-SN, MFP, EMB, IT, STFT, and ST-SN. The Daily Equivalent Abandonment Surcharge is only applicable to IT, SSS, STFT, ST-SN, ARPs, Diversions and STS Overrun.

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Empress	Empress	2.82084	0.0927	0.03553	0.0012
2	Empress	TransGas SSDA	10.14061	0.3334	0.74653	0.0245
3	Empress	Centram SSDA	13.13970	0.4320	1.03782	0.0340
4	Empress	Centram MDA	17.69246	0.5817	1.48004	0.0485
5	Empress	Centrat MDA	19.73099	0.6487	1.67803	0.0550
6	Empress	Union WDA	28.25009	0.9288	2.50552	0.0822
7	Empress	Nipigon WDA	30.75885	1.0113	2.74922	0.0901
8	Empress	Union NDA	43.45325	1.4286	3.98226	0.1306
9	Empress	Calstock NDA	36.33970	1.1947	3.29128	0.1079
10	Empress	Tunis NDA	40.73309	1.3392	3.71804	0.1219
11	Empress	GMIT NDA	44.34933	1.4581	4.06927	0.1334
12	Empress	Union SSMDA	39.41270	1.2958	3.58979	0.1177
13	Empress	Union NCDA	52.97945	1.7418	4.55400	0.1493
14	Empress	Union CDA	54.58058	1.7944	4.69885	0.1541
15	Empress	Enbridge CDA	55.57064	1.8270	4.78838	0.1570
16	Empress	Enbridge Parkway CDA	54.48629	1.7913	4.69033	0.1538
17	Empress	Union EDA	58.47513	1.9225	5.05113	0.1656
18	Empress	Enbridge EDA	57.23474	1.8817	4.93893	0.1619
19	Empress	KPUC EDA	59.66807	1.9617	5.15905	0.1692
20	Empress	GMIT EDA	61.27133	2.0144	5.30407	0.1739
21	Empress	Enbridge SWDA	50.37578	1.6562	4.31850	0.1416
22	Empress	Union SWDA	50.31069	1.6541	4.31260	0.1414
23	Empress	Chippawa	55.85534	1.8363	4.81416	0.1578
24	Empress	Cornwall	58.20929	1.9137	5.02710	0.1648
25	Empress	East Hereford	64.66279	2.1259	5.61088	0.1840
26	Empress	Emerson 1	20.08686	0.6604	1.71263	0.0562
27	Empress	Emerson 2	20.08686	0.6604	1.71263	0.0562
28	Empress	Iroquois	57.60704	1.8939	4.97262	0.1630
29	Empress	Kirkwall	53.79400	1.7686	4.62770	0.1517
30	Empress	Napierville	60.99302	2.0053	5.27890	0.1731
31	Empress	Niagara Falls	55.81215	1.8349	4.81024	0.1577
32	Empress	North Bay Junction	46.37964	1.5248	4.26650	0.1399
33	Empress	Philipsburg	61.30905	2.0156	5.30751	0.1740
34	Empress	Spruce	19.73099	0.6487	1.67803	0.0550
35	Empress	St. Clair	46.51317	1.5292	4.27944	0.1403
36	Empress	Welwyn	13.13970	0.4320	1.03782	0.0340
37	Empress	Dawn Export	50.37578	1.6562	4.31850	0.1416
38	Empress	Union Parkway Belt	54.48629	1.7913	4.69033	0.1538
39	Empress	Union CDA (Amended)	54.38865	1.7881	4.68148	0.1535
40	Empress	Union ECDA	54.69464	1.7982	4.70917	0.1544
41	Bayhurst 1	Empress	3.33245	0.1096	0.08525	0.0028
42	Bayhurst 1	TransGas SSDA	9.62992	0.3166	0.69692	0.0229
43	Bayhurst 1	Centram SSDA	12.62748	0.4152	0.98810	0.0324
44	Bayhurst 1	Centram MDA	17.18055	0.5648	1.43033	0.0469
45	Bayhurst 1	Centrat MDA	19.21877	0.6319	1.62831	0.0534
46	Bayhurst 1	Union WDA	27.73848	0.9120	2.45583	0.0805
47	Bayhurst 1	Nipigon WDA	30.24694	0.9944	2.69950	0.0885
48	Bayhurst 1	Union NDA	42.94134	1.4118	3.93252	0.1289
49	Bayhurst 1	Calstock NDA	35.82779	1.1779	3.24156	0.1063
50	Bayhurst 1	Tunis NDA	40.22148	1.3224	3.66832	0.1203
51	Bayhurst 1	GMIT NDA	43.83741	1.4412	4.01955	0.1318
52	Bayhurst 1	Union SSMDA	38.90079	1.2789	3.54006	0.1161
53	Bayhurst 1	Union NCDA	52.42921	1.7237	4.50425	0.1477
54	Bayhurst 1	Union CDA	54.03095	1.7764	4.64914	0.1524
55	Bayhurst 1	Union EDA	57.92520	1.9044	5.00140	0.1640
56	Bayhurst 1	Enbridge CDA	55.02132	1.8089	4.73872	0.1554
57	Bayhurst 1	Enbridge Parkway CDA	53.93696	1.7733	4.64060	0.1522
58	Bayhurst 1	Enbridge EDA	56.68480	1.8636	4.88919	0.1603
59	Bayhurst 1	KPUC EDA	59.11814	1.9436	5.10932	0.1675
60	Bayhurst 1	GMIT EDA	60.72140	1.9963	5.25433	0.1723
61	Bayhurst 1	Enbridge SWDA	49.82615	1.6381	4.26877	0.1400
62	Bayhurst 1	Union SWDA	49.76106	1.6360	4.26287	0.1398
63	Bayhurst 1	Chippawa	55.30541	1.8183	4.76444	0.1562
64	Bayhurst 1	Cornwall	57.65996	1.8957	4.97738	0.1632

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Bayhurst 1	East Hereford	64.11347	2.1078	5.56116	0.1823
2	Bayhurst 1	Emerson 1	19.57525	0.6436	1.66291	0.0545
3	Bayhurst 1	Emerson 2	19.57525	0.6436	1.66291	0.0545
4	Bayhurst 1	Iroquois	57.05741	1.8759	4.92290	0.1614
5	Bayhurst 1	Kirkwall	53.24468	1.7505	4.57798	0.1501
6	Bayhurst 1	Napierville	60.44309	1.9872	5.22917	0.1715
7	Bayhurst 1	Niagara Falls	55.26222	1.8168	4.76052	0.1561
8	Bayhurst 1	North Bay Junction	45.86773	1.5080	4.21677	0.1383
9	Bayhurst 1	Philipsburg	60.75973	1.9976	5.25779	0.1724
10	Bayhurst 1	Spruce	19.21877	0.6319	1.62831	0.0534
11	Bayhurst 1	St. Clair	46.00095	1.5124	4.22972	0.1387
12	Bayhurst 1	Welwyn	12.62748	0.4152	0.98810	0.0324
13	Bayhurst 1	Dawn Export	49.82615	1.6381	4.26877	0.1400
14	Bayhurst 1	Union Parkway Belt	53.93696	1.7733	4.64060	0.1522
15	Bayhurst 1	Union CDA (Amended)	53.83902	1.7701	4.63177	0.1519
16	Bayhurst 1	Union ECDA	54.14532	1.7801	4.65947	0.1528
17	Calstock NDA	Empress	-	1.1947	-	0.1079
18	Calstock NDA	TransGas SSDA	-	0.9541	-	0.0846
19	Calstock NDA	Centram SSDA	-	0.8555	-	0.0751
20	Calstock NDA	Centram MDA	-	0.7072	-	0.0607
21	Calstock NDA	Centrat MDA	-	0.6388	-	0.0541
22	Calstock NDA	Union WDA	-	0.3817	-	0.0292
23	Calstock NDA	Nipigon WDA	-	0.2762	-	0.0189
24	Calstock NDA	Union NDA	-	0.3266	-	0.0238
25	Calstock NDA	Calstock NDA	-	0.0927	-	0.0012
26	Calstock NDA	Tunis NDA	-	0.2372	-	0.0152
27	Calstock NDA	GMIT NDA	-	0.3561	-	0.0267
28	Calstock NDA	Union SSMDA	-	1.0856	-	0.0973
29	Calstock NDA	Union NCDA	-	0.5585	-	0.0426
30	Calstock NDA	Union CDA	-	0.6860	-	0.0541
31	Calstock NDA	Union EDA	-	0.7413	-	0.0591
32	Calstock NDA	Enbridge CDA	-	0.6641	-	0.0521
33	Calstock NDA	Enbridge Parkway CDA	-	0.6681	-	0.0525
34	Calstock NDA	Enbridge EDA	-	0.6988	-	0.0552
35	Calstock NDA	KPUC EDA	-	0.7784	-	0.0624
36	Calstock NDA	GMIT EDA	-	0.8311	-	0.0672
37	Calstock NDA	Enbridge SWDA	-	0.8033	-	0.0647
38	Calstock NDA	Union SWDA	-	0.8054	-	0.0648
39	Calstock NDA	Chippawa	-	0.7486	-	0.0597
40	Calstock NDA	Cornwall	-	0.7305	-	0.0581
41	Calstock NDA	East Hereford	-	0.9426	-	0.0772
42	Calstock NDA	Emerson 1	-	0.7175	-	0.0617
43	Calstock NDA	Emerson 2	-	0.7175	-	0.0617
44	Calstock NDA	Iroquois	-	0.7107	-	0.0563
45	Calstock NDA	Kirkwall	-	0.6909	-	0.0545
46	Calstock NDA	Napierville	-	0.8220	-	0.0663
47	Calstock NDA	Niagara Falls	-	0.7472	-	0.0596
48	Calstock NDA	North Bay Junction	-	0.4228	-	0.0331
49	Calstock NDA	Philipsburg	-	0.8324	-	0.0673
50	Calstock NDA	Spruce	-	0.6388	-	0.0541
51	Calstock NDA	St. Clair	-	0.7613	-	0.0659
52	Calstock NDA	Welwyn	-	0.8555	-	0.0751
53	Calstock NDA	Dawn Export	-	0.8033	-	0.0647
54	Calstock NDA	Union Parkway Belt	-	0.6681	-	0.0525
55	Calstock NDA	Union CDA (Amended)	-	0.7045	-	0.0557
56	Calstock NDA	Union ECDA	-	0.6750	-	0.0531
57	Centram MDA	Empress	-	0.5817	-	0.0485
58	Centram MDA	TransGas SSDA	-	0.3410	-	0.0252
59	Centram MDA	Centram SSDA	-	0.2424	-	0.0157
60	Centram MDA	Centram MDA	-	0.0927	-	0.0012
61	Centram MDA	Centrat MDA	-	0.1612	-	0.0078
62	Centram MDA	Union WDA	-	0.4412	-	0.0349
63	Centram MDA	Nipigon WDA	-	0.5238	-	0.0429
64	Centram MDA	Union NDA	-	0.9409	-	0.0833
65	Centram MDA	Calstock NDA	-	0.7072	-	0.0607
66	Centram MDA	Tunis NDA	-	0.8517	-	0.0747
67	Centram MDA	GMIT NDA	-	0.9706	-	0.0862
68	Centram MDA	Union SSMDA	-	0.8074	-	0.0704
69	Centram MDA	Union NCDA	-	1.2183	-	0.1021
70	Centram MDA	Union CDA	-	1.2700	-	0.1068
71	Centram MDA	Union EDA	-	1.3981	-	0.1183
72	Centram MDA	Enbridge CDA	-	1.3023	-	0.1097
73	Centram MDA	Enbridge Parkway CDA	-	1.2669	-	0.1065
74	Centram MDA	Enbridge EDA	-	1.3580	-	0.1147
75	Centram MDA	KPUC EDA	-	1.4370	-	0.1218
76	Centram MDA	GMIT EDA	-	1.4908	-	0.1267
77	Centram MDA	Enbridge SWDA	-	1.1318	-	0.0943
78	Centram MDA	Union SWDA	-	1.1296	-	0.0941
79	Centram MDA	Chippawa	-	1.3119	-	0.1105
80	Centram MDA	Cornwall	-	1.3903	-	0.1176
81	Centram MDA	East Hereford	-	1.6024	-	0.1367
82	Centram MDA	Emerson 1	-	0.1720	-	0.0088

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Centram MDA	Emerson 2	-	0.1720	-	0.0088
2	Centram MDA	Iroquois	-	1.3705	-	0.1158
3	Centram MDA	Kirkwall	-	1.2442	-	0.1044
4	Centram MDA	Napierville	-	1.4818	-	0.1259
5	Centram MDA	Niagara Falls	-	1.3105	-	0.1104
6	Centram MDA	North Bay Junction	-	1.0373	-	0.0927
7	Centram MDA	Philipsburg	-	1.4922	-	0.1268
8	Centram MDA	Spruce	-	0.1612	-	0.0078
9	Centram MDA	St. Clair	-	1.0408	-	0.0930
10	Centram MDA	Welwyn	-	0.2424	-	0.0157
11	Centram MDA	Dawn Export	-	1.1318	-	0.0943
12	Centram MDA	Union Parkway Belt	-	1.2669	-	0.1065
13	Centram MDA	Union CDA (Amended)	-	1.2637	-	0.1062
14	Centram MDA	Union ECDA	-	1.2738	-	0.1071
15	Centram SSDA	Empress	-	0.4320	-	0.0340
16	Centram SSDA	TransGas SSDA	-	0.1913	-	0.0107
17	Centram SSDA	Centram SSDA	-	0.0927	-	0.0012
18	Centram SSDA	Centram MDA	-	0.2424	-	0.0157
19	Centram SSDA	Centrat MDA	-	0.3094	-	0.0222
20	Centram SSDA	Union WDA	-	0.5895	-	0.0493
21	Centram SSDA	Nipigon WDA	-	0.6720	-	0.0573
22	Centram SSDA	Union NDA	-	1.0893	-	0.0977
23	Centram SSDA	Calstock NDA	-	0.8555	-	0.0751
24	Centram SSDA	Tunis NDA	-	0.9999	-	0.0890
25	Centram SSDA	GMIT NDA	-	1.1188	-	0.1006
26	Centram SSDA	Union SSM DA	-	0.9565	-	0.0848
27	Centram SSDA	Union NCDA	-	1.3775	-	0.1165
28	Centram SSDA	Union CDA	-	1.4302	-	0.1212
29	Centram SSDA	Union EDA	-	1.5582	-	0.1328
30	Centram SSDA	Enbridge CDA	-	1.4627	-	0.1241
31	Centram SSDA	Enbridge Parkway CDA	-	1.4271	-	0.1209
32	Centram SSDA	Enbridge EDA	-	1.5174	-	0.1291
33	Centram SSDA	KPUC EDA	-	1.5974	-	0.1363
34	Centram SSDA	GMIT EDA	-	1.6501	-	0.1410
35	Centram SSDA	Enbridge SWDA	-	1.2919	-	0.1087
36	Centram SSDA	Union SWDA	-	1.2898	-	0.1085
37	Centram SSDA	Chippawa	-	1.4721	-	0.1250
38	Centram SSDA	Cornwall	-	1.5495	-	0.1320
39	Centram SSDA	East Hereford	-	1.7616	-	0.1511
40	Centram SSDA	Emerson 1	-	0.3211	-	0.0233
41	Centram SSDA	Emerson 2	-	0.3211	-	0.0233
42	Centram SSDA	Iroquois	-	1.5297	-	0.1302
43	Centram SSDA	Kirkwall	-	1.4043	-	0.1189
44	Centram SSDA	Napierville	-	1.6410	-	0.1402
45	Centram SSDA	Niagara Falls	-	1.4707	-	0.1249
46	Centram SSDA	North Bay Junction	-	1.1856	-	0.1070
47	Centram SSDA	Philipsburg	-	1.6514	-	0.1412
48	Centram SSDA	Spruce	-	0.3094	-	0.0222
49	Centram SSDA	St. Clair	-	1.1900	-	0.1075
50	Centram SSDA	Welwyn	-	0.0927	-	0.0012
51	Centram SSDA	Dawn Export	-	1.2919	-	0.1087
52	Centram SSDA	Union Parkway Belt	-	1.4271	-	0.1209
53	Centram SSDA	Union CDA (Amended)	-	1.4238	-	0.1206
54	Centram SSDA	Union ECDA	-	1.4339	-	0.1215
55	Centrat MDA	Empress	-	0.6487	-	0.0550
56	Centrat MDA	TransGas SSDA	-	0.4080	-	0.0317
57	Centrat MDA	Centram SSDA	-	0.3094	-	0.0222
58	Centrat MDA	Centram MDA	-	0.1612	-	0.0078
59	Centrat MDA	Centrat MDA	-	0.0927	-	0.0012
60	Centrat MDA	Union WDA	-	0.3728	-	0.0283
61	Centrat MDA	Nipigon WDA	-	0.4553	-	0.0363
62	Centrat MDA	Union NDA	-	0.8727	-	0.0767
63	Centrat MDA	Calstock NDA	-	0.6388	-	0.0541
64	Centrat MDA	Tunis NDA	-	0.7832	-	0.0681
65	Centrat MDA	GMIT NDA	-	0.9021	-	0.0796
66	Centrat MDA	Union SSM DA	-	0.8068	-	0.0703
67	Centrat MDA	Union NCDA	-	1.1448	-	0.0955
68	Centrat MDA	Union CDA	-	1.2620	-	0.1060
69	Centrat MDA	Union EDA	-	1.3276	-	0.1120
70	Centrat MDA	Enbridge CDA	-	1.2462	-	0.1046
71	Centrat MDA	Enbridge Parkway CDA	-	1.2545	-	0.1054
72	Centrat MDA	Enbridge EDA	-	1.2851	-	0.1081
73	Centrat MDA	KPUC EDA	-	1.3647	-	0.1153
74	Centrat MDA	GMIT EDA	-	1.4174	-	0.1201
75	Centrat MDA	Enbridge SWDA	-	1.1312	-	0.0942
76	Centrat MDA	Union SWDA	-	1.1291	-	0.0940
77	Centrat MDA	Chippawa	-	1.3113	-	0.1105
78	Centrat MDA	Cornwall	-	1.3168	-	0.1110
79	Centrat MDA	East Hereford	-	1.5289	-	0.1301
80	Centrat MDA	Emerson 1	-	0.1715	-	0.0088
81	Centrat MDA	Emerson 2	-	0.1715	-	0.0088
82	Centrat MDA	Iroquois	-	1.2970	-	0.1092

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Centrat MDA	Kirkwall	-	1.2436	-	0.1044
2	Centrat MDA	Napierville	-	1.4083	-	0.1192
3	Centrat MDA	Niagara Falls	-	1.3099	-	0.1104
4	Centrat MDA	North Bay Junction	-	0.9689	-	0.0860
5	Centrat MDA	Philipsburg	-	1.4187	-	0.1202
6	Centrat MDA	Spruce	-	0.0927	-	0.0012
7	Centrat MDA	St. Clair	-	1.0403	-	0.0930
8	Centrat MDA	Welwyn	-	0.3094	-	0.0222
9	Centrat MDA	Dawn Export	-	1.1312	-	0.0942
10	Centrat MDA	Union Parkway Belt	-	1.2545	-	0.1054
11	Centrat MDA	Union CDA (Amended)	-	1.2631	-	0.1061
12	Centrat MDA	Union ECDA	-	1.2613	-	0.1060
13	Chippawa	Empress	74.54182	2.4507	4.81416	0.1578
14	Chippawa	TransGas SSDA	64.05233	2.1058	4.10315	0.1345
15	Chippawa	Centram SSDA	59.75506	1.9646	3.81187	0.1250
16	Chippawa	Centram MDA	53.25411	1.7508	3.37124	0.1105
17	Chippawa	Centrat MDA	53.23038	1.7500	3.36963	0.1105
18	Chippawa	Union WDA	42.98483	1.4132	2.67514	0.0877
19	Chippawa	Nipigon WDA	38.38492	1.2620	2.36336	0.0775
20	Chippawa	Union NDA	20.19363	0.6639	1.13030	0.0371
21	Chippawa	Calstock NDA	30.38808	0.9991	1.82130	0.0597
22	Chippawa	Tunis NDA	24.09183	0.7921	1.39454	0.0457
23	Chippawa	GMIT NDA	19.41313	0.6382	1.07742	0.0353
24	Chippawa	Union SSMDA	26.06769	0.8570	1.52848	0.0501
25	Chippawa	Union NCDA	11.75878	0.3866	0.55858	0.0183
26	Chippawa	Union CDA	6.64604	0.2185	0.21202	0.0070
27	Chippawa	Union EDA	15.10826	0.4967	0.78561	0.0258
28	Chippawa	Enbridge CDA	8.38435	0.2757	0.32986	0.0108
29	Chippawa	Enbridge Parkway CDA	7.30852	0.2403	0.25694	0.0084
30	Chippawa	Enbridge EDA	18.43098	0.6060	1.01084	0.0331
31	Chippawa	KPUC EDA	14.65688	0.4819	0.75501	0.0248
32	Chippawa	GMIT EDA	22.74072	0.7476	1.30297	0.0427
33	Chippawa	Enbridge SWDA	11.35454	0.3733	0.53119	0.0174
34	Chippawa	Union SWDA	11.44153	0.3762	0.53709	0.0176
35	Chippawa	Chippawa	4.04238	0.1329	0.03553	0.0012
36	Chippawa	Cornwall	18.65515	0.6133	1.02602	0.0336
37	Chippawa	East Hereford	27.26763	0.8965	1.60981	0.0528
38	Chippawa	Emerson 1	49.79969	1.6373	3.13706	0.1029
39	Chippawa	Emerson 2	49.79969	1.6373	3.13706	0.1029
40	Chippawa	Iroquois	17.63102	0.5797	0.95660	0.0314
41	Chippawa	Kirkwall	6.79326	0.2233	0.22199	0.0073
42	Chippawa	Napierville	22.36963	0.7354	1.27782	0.0419
43	Chippawa	Niagara Falls	4.97708	0.1636	0.09891	0.0032
44	Chippawa	North Bay Junction	16.00069	0.5261	0.84609	0.0277
45	Chippawa	Philipsburg	22.79182	0.7493	1.30643	0.0428
46	Chippawa	Spruce	53.23038	1.7500	3.36963	0.1105
47	Chippawa	St. Clair	11.93094	0.3923	0.57025	0.0187
48	Chippawa	Welwyn	59.75506	1.9646	3.81187	0.1250
49	Chippawa	Dawn Export	11.35454	0.3733	0.53119	0.0174
50	Chippawa	Union Parkway Belt	7.30852	0.2403	0.25694	0.0084
51	Chippawa	Union CDA (Amended)	5.99938	0.1972	0.16820	0.0055
52	Chippawa	Union ECDA	7.03020	0.2311	0.23806	0.0078
53	Cornwall	Empress	77.68356	2.5540	5.02710	0.1648
54	Cornwall	TransGas SSDA	67.19407	2.2091	4.31610	0.1415
55	Cornwall	Centram SSDA	62.89650	2.0678	4.02481	0.1320
56	Cornwall	Centram MDA	56.43387	1.8554	3.58677	0.1176
57	Cornwall	Centrat MDA	53.45121	1.7573	3.38460	0.1110
58	Cornwall	Union WDA	42.24693	1.3889	2.62516	0.0861
59	Cornwall	Nipigon WDA	37.64793	1.2377	2.31341	0.0759
60	Cornwall	Union NDA	19.47488	0.6403	1.08161	0.0355
61	Cornwall	Calstock NDA	29.65138	0.9748	1.77137	0.0581
62	Cornwall	Tunis NDA	23.35513	0.7678	1.34459	0.0441
63	Cornwall	GMIT NDA	18.67644	0.6140	1.02746	0.0337
64	Cornwall	Union SSMDA	35.58720	1.1700	2.17371	0.0713
65	Cornwall	Union NCDA	17.28944	0.5684	0.93346	0.0306
66	Cornwall	Union CDA	16.11323	0.5298	0.85374	0.0280
67	Cornwall	Union EDA	7.62972	0.2508	0.27871	0.0091
68	Cornwall	Enbridge CDA	14.67300	0.4824	0.75610	0.0248
69	Cornwall	Enbridge Parkway CDA	15.38840	0.5059	0.80461	0.0264
70	Cornwall	Enbridge EDA	7.08100	0.2328	0.24152	0.0079
71	Cornwall	KPUC EDA	8.04065	0.2644	0.30654	0.0101
72	Cornwall	GMIT EDA	8.12855	0.2672	0.31252	0.0103
73	Cornwall	Enbridge SWDA	20.87405	0.6863	1.17644	0.0386
74	Cornwall	Union SWDA	20.96104	0.6891	1.18234	0.0388
75	Cornwall	Chippawa	18.65515	0.6133	1.02602	0.0336
76	Cornwall	Cornwall	4.04238	0.1329	0.03553	0.0012
77	Cornwall	East Hereford	12.65485	0.4161	0.61932	0.0203
78	Cornwall	Emerson 1	56.88251	1.8701	3.61717	0.1186
79	Cornwall	Emerson 2	56.88251	1.8701	3.61717	0.1186
80	Cornwall	Iroquois	5.29007	0.1739	0.12011	0.0039
81	Cornwall	Kirkwall	16.31215	0.5363	0.86723	0.0284
82	Cornwall	Napierville	7.75686	0.2550	0.28733	0.0094



Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Cornwall	Niagara Falls	18.59736	0.6114	1.02210	0.0335
2	Cornwall	North Bay Junction	15.26339	0.5018	0.79613	0.0261
3	Cornwall	Philipsburg	8.17904	0.2689	0.31594	0.0104
4	Cornwall	Spruce	53.45121	1.7573	3.38460	0.1110
5	Cornwall	St. Clair	21.45044	0.7052	1.21549	0.0399
6	Cornwall	Welwyn	62.89650	2.0678	4.02481	0.1320
7	Cornwall	Dawn Export	20.87405	0.6863	1.17644	0.0386
8	Cornwall	Union Parkway Belt	15.38840	0.5059	0.80461	0.0264
9	Cornwall	Union CDA (Amended)	16.86391	0.5544	0.90461	0.0297
10	Cornwall	Union ECDA	15.66671	0.5151	0.82347	0.0270
11	East Hereford	Empress	86.29604	2.8371	5.61088	0.1840
12	East Hereford	TransGas SSDA	75.80624	2.4923	4.89987	0.1607
13	East Hereford	Centram SSDA	71.50958	2.3510	4.60861	0.1511
14	East Hereford	Centram MDA	65.04695	2.1385	4.17059	0.1367
15	East Hereford	Centrat MDA	62.06399	2.0405	3.96838	0.1301
16	East Hereford	Union WDA	50.86032	1.6721	3.20896	0.1052
17	East Hereford	Nipigon WDA	46.26040	1.5209	2.89719	0.0950
18	East Hereford	Union NDA	28.08705	0.9234	1.66536	0.0546
19	East Hereford	Calstock NDA	38.26386	1.2580	2.35515	0.0772
20	East Hereford	Tunis NDA	31.96761	1.0510	1.92839	0.0632
21	East Hereford	GMIT NDA	27.28892	0.8972	1.61125	0.0528
22	East Hereford	Union SSM DA	44.19998	1.4532	2.75751	0.0904
23	East Hereford	Union NCDA	25.90223	0.8516	1.51726	0.0498
24	East Hereford	Union CDA	24.72571	0.8129	1.43753	0.0471
25	East Hereford	Union EDA	16.24280	0.5340	0.86253	0.0283
26	East Hereford	Enbridge CDA	23.28609	0.7656	1.33991	0.0439
27	East Hereford	Enbridge Parkway CDA	24.00088	0.7891	1.38839	0.0455
28	East Hereford	Enbridge EDA	15.66337	0.5150	0.82326	0.0270
29	East Hereford	KPUC EDA	16.65313	0.5475	0.89032	0.0292
30	East Hereford	GMIT EDA	11.28702	0.3711	0.52660	0.0173
31	East Hereford	Enbridge SWDA	29.48683	0.9694	1.76022	0.0577
32	East Hereford	Union SWDA	29.57382	0.9723	1.76612	0.0579
33	East Hereford	Chippawa	27.26763	0.8965	1.60981	0.0528
34	East Hereford	Cornwall	12.65485	0.4161	0.61932	0.0203
35	East Hereford	East Hereford	4.04238	0.1329	0.03553	0.0012
36	East Hereford	Emerson 1	65.49530	2.1533	4.20096	0.1377
37	East Hereford	Emerson 2	65.49530	2.1533	4.20096	0.1377
38	East Hereford	Iroquois	13.90255	0.4571	0.70390	0.0231
39	East Hereford	Kirkwall	24.92494	0.8195	1.45101	0.0476
40	East Hereford	Napierville	13.44782	0.4421	0.67305	0.0221
41	East Hereford	Niagara Falls	27.21014	0.8946	1.60589	0.0527
42	East Hereford	North Bay Junction	23.87648	0.7850	1.37994	0.0452
43	East Hereford	Philipsburg	13.86970	0.4560	0.70167	0.0230
44	East Hereford	Spruce	62.06399	2.0405	3.96838	0.1301
45	East Hereford	St. Clair	30.06323	0.9884	1.79928	0.0590
46	East Hereford	Welwyn	71.50958	2.3510	4.60861	0.1511
47	East Hereford	Dawn Export	29.48683	0.9694	1.76022	0.0577
48	East Hereford	Union Parkway Belt	24.00088	0.7891	1.38839	0.0455
49	East Hereford	Union CDA (Amended)	25.47670	0.8376	1.48840	0.0488
50	East Hereford	Union ECDA	24.27950	0.7982	1.40727	0.0461
51	Emerson 1	Empress	20.08686	0.6604	1.71263	0.0562
52	Emerson 1	TransGas SSDA	12.76709	0.4197	1.00165	0.0328
53	Emerson 1	Centram SSDA	9.76801	0.3211	0.71034	0.0233
54	Emerson 1	Centram MDA	5.23197	0.1720	0.26971	0.0088
55	Emerson 1	Centrat MDA	5.21524	0.1715	0.26810	0.0088
56	Emerson 1	Union WDA	13.73495	0.4516	1.09564	0.0359
57	Emerson 1	Nipigon WDA	16.24311	0.5340	1.33929	0.0439
58	Emerson 1	Union NDA	28.93781	0.9514	2.57232	0.0843
59	Emerson 1	Calstock NDA	21.82396	0.7175	1.88133	0.0617
60	Emerson 1	Tunis NDA	26.21765	0.8620	2.30812	0.0757
61	Emerson 1	GMIT NDA	29.83358	0.9808	2.65933	0.0872
62	Emerson 1	Union SSM DA	22.14668	0.7281	1.91267	0.0627
63	Emerson 1	Union NCDA	37.38999	1.2293	3.14381	0.1031
64	Emerson 1	Union CDA	36.04071	1.1849	3.02175	0.0991
65	Emerson 1	Union EDA	41.25990	1.3565	3.49388	0.1146
66	Emerson 1	Enbridge CDA	37.26346	1.2251	3.13237	0.1027
67	Emerson 1	Enbridge Parkway CDA	35.94642	1.1818	3.01323	0.0988
68	Emerson 1	Enbridge EDA	41.36758	1.3600	3.50363	0.1149
69	Emerson 1	KPUC EDA	41.45275	1.3628	3.51130	0.1151
70	Emerson 1	GMIT EDA	45.68553	1.5020	3.89422	0.1277
71	Emerson 1	Enbridge SWDA	31.83591	1.0467	2.64140	0.0866
72	Emerson 1	Union SWDA	31.77082	1.0445	2.63550	0.0864
73	Emerson 1	Chippawa	37.31547	1.2268	3.13706	0.1029
74	Emerson 1	Cornwall	42.62288	1.4013	3.61717	0.1186
75	Emerson 1	East Hereford	49.07668	1.6135	4.20096	0.1377
76	Emerson 1	Emerson 1	2.82084	0.0927	0.03553	0.0012
77	Emerson 1	Emerson 2	2.82084	0.0927	0.03553	0.0012
78	Emerson 1	Iroquois	42.02063	1.3815	3.56269	0.1168
79	Emerson 1	Kirkwall	35.25413	1.1590	2.95061	0.0967
80	Emerson 1	Napierville	45.40630	1.4928	3.86897	0.1269
81	Emerson 1	Niagara Falls	37.27198	1.2254	3.13314	0.1027
82	Emerson 1	North Bay Junction	31.86420	1.0476	2.85657	0.0937

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Emerson 1	Philipsburg	45.72264	1.5032	3.89758	0.1278
2	Emerson 1	Spruce	5.21524	0.1715	0.26810	0.0088
3	Emerson 1	St. Clair	29.24684	0.9615	2.60234	0.0853
4	Emerson 1	Welwyn	9.76801	0.3211	0.71034	0.0233
5	Emerson 1	Dawn Export	31.83591	1.0467	2.64140	0.0866
6	Emerson 1	Union Parkway Belt	35.94642	1.1818	3.01323	0.0988
7	Emerson 1	Union CDA (Amended)	35.84878	1.1786	3.00439	0.0985
8	Emerson 1	Union ECDA	36.15477	1.1887	3.03209	0.0994
9	Emerson 2	Empress	20.08686	0.6604	1.71263	0.0562
10	Emerson 2	TransGas SSDA	12.76709	0.4197	1.00165	0.0328
11	Emerson 2	Centram SSDA	9.76801	0.3211	0.71034	0.0233
12	Emerson 2	Centram MDA	5.23197	0.1720	0.26971	0.0088
13	Emerson 2	Centrat MDA	5.21524	0.1715	0.26810	0.0088
14	Emerson 2	Union WDA	13.73495	0.4516	1.09564	0.0359
15	Emerson 2	Nipigon WDA	16.24311	0.5340	1.33929	0.0439
16	Emerson 2	Union NDA	28.93781	0.9514	2.57232	0.0843
17	Emerson 2	Calstock NDA	21.82396	0.7175	1.88133	0.0617
18	Emerson 2	Tunis NDA	26.21765	0.8620	2.30812	0.0757
19	Emerson 2	GMIT NDA	29.83358	0.9808	2.65933	0.0872
20	Emerson 2	Union SSMDA	22.14668	0.7281	1.91267	0.0627
21	Emerson 2	Union NCDA	37.38999	1.2293	3.14381	0.1031
22	Emerson 2	Union CDA	36.04071	1.1849	3.02175	0.0991
23	Emerson 2	Union EDA	41.25990	1.3565	3.49388	0.1146
24	Emerson 2	Enbridge CDA	37.26346	1.2251	3.13237	0.1027
25	Emerson 2	Enbridge Parkway CDA	35.94642	1.1818	3.01323	0.0988
26	Emerson 2	Enbridge EDA	41.36758	1.3600	3.50363	0.1149
27	Emerson 2	KPUC EDA	41.45275	1.3628	3.51130	0.1151
28	Emerson 2	GMIT EDA	45.68553	1.5020	3.89422	0.1277
29	Emerson 2	Enbridge SWDA	31.83591	1.0467	2.64140	0.0866
30	Emerson 2	Union SWDA	31.77082	1.0445	2.63550	0.0864
31	Emerson 2	Chippawa	37.31547	1.2268	3.13706	0.1029
32	Emerson 2	Cornwall	42.62288	1.4013	3.61717	0.1186
33	Emerson 2	East Hereford	49.07668	1.6135	4.20096	0.1377
34	Emerson 2	Emerson 1	2.82084	0.0927	0.03553	0.0012
35	Emerson 2	Emerson 2	2.82084	0.0927	0.03553	0.0012
36	Emerson 2	Iroquois	42.02063	1.3815	3.56269	0.1168
37	Emerson 2	Kirkwall	35.25413	1.1590	2.95061	0.0967
38	Emerson 2	Napierville	45.40630	1.4928	3.86897	0.1269
39	Emerson 2	Niagara Falls	37.27198	1.2254	3.13314	0.1027
40	Emerson 2	North Bay Junction	31.86420	1.0476	2.85657	0.0937
41	Emerson 2	Philipsburg	45.72264	1.5032	3.89758	0.1278
42	Emerson 2	Spruce	5.21524	0.1715	0.26810	0.0088
43	Emerson 2	St. Clair	29.24684	0.9615	2.60234	0.0853
44	Emerson 2	Welwyn	9.76801	0.3211	0.71034	0.0233
45	Emerson 2	Dawn Export	31.83591	1.0467	2.64140	0.0866
46	Emerson 2	Union Parkway Belt	35.94642	1.1818	3.01323	0.0988
47	Emerson 2	Union CDA (Amended)	35.84878	1.1786	3.00439	0.0985
48	Emerson 2	Union ECDA	36.15477	1.1887	3.03209	0.0994
49	Enbridge Parkway CDA	Empress	-	2.3906	-	0.1538
50	Enbridge Parkway CDA	TransGas SSDA	-	2.0458	-	0.1305
51	Enbridge Parkway CDA	Centram SSDA	-	1.9045	-	0.1209
52	Enbridge Parkway CDA	Centram MDA	-	1.6908	-	0.1065
53	Enbridge Parkway CDA	Centrat MDA	-	1.6741	-	0.1054
54	Enbridge Parkway CDA	Union WDA	-	1.3058	-	0.0805
55	Enbridge Parkway CDA	Nipigon WDA	-	1.1546	-	0.0702
56	Enbridge Parkway CDA	Union NDA	-	0.5565	-	0.0298
57	Enbridge Parkway CDA	Calstock NDA	-	0.8917	-	0.0525
58	Enbridge Parkway CDA	Tunis NDA	-	0.6847	-	0.0385
59	Enbridge Parkway CDA	GMIT NDA	-	0.5308	-	0.0281
60	Enbridge Parkway CDA	Union SSMDA	-	0.7970	-	0.0461
61	Enbridge Parkway CDA	Union NCDA	-	0.2792	-	0.0111
62	Enbridge Parkway CDA	Union CDA	-	0.1567	-	0.0028
63	Enbridge Parkway CDA	Union EDA	-	0.3893	-	0.0185
64	Enbridge Parkway CDA	Enbridge CDA	-	0.1991	-	0.0056
65	Enbridge Parkway CDA	Enbridge Parkway CDA	-	0.1329	-	0.0012
66	Enbridge Parkway CDA	Enbridge EDA	-	0.4986	-	0.0259
67	Enbridge Parkway CDA	KPUC EDA	-	0.3745	-	0.0175
68	Enbridge Parkway CDA	GMIT EDA	-	0.6403	-	0.0355
69	Enbridge Parkway CDA	Enbridge SWDA	-	0.3133	-	0.0134
70	Enbridge Parkway CDA	Union SWDA	-	0.3161	-	0.0136
71	Enbridge Parkway CDA	Chippawa	-	0.2403	-	0.0084
72	Enbridge Parkway CDA	Cornwall	-	0.5059	-	0.0264
73	Enbridge Parkway CDA	East Hereford	-	0.7891	-	0.0455
74	Enbridge Parkway CDA	Emerson 1	-	1.5772	-	0.0988
75	Enbridge Parkway CDA	Emerson 2	-	1.5772	-	0.0988
76	Enbridge Parkway CDA	Iroquois	-	0.4723	-	0.0241
77	Enbridge Parkway CDA	Kirkwall	-	0.1633	-	0.0032
78	Enbridge Parkway CDA	Napierville	-	0.6281	-	0.0346
79	Enbridge Parkway CDA	Niagara Falls	-	0.2384	-	0.0083
80	Enbridge Parkway CDA	North Bay Junction	-	0.4187	-	0.0205
81	Enbridge Parkway CDA	Philipsburg	-	0.6419	-	0.0356
82	Enbridge Parkway CDA	Spruce	-	1.6741	-	0.1054

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Enbridge Parkway CDA	St. Clair	-	0.3322	-	0.0146
2	Enbridge Parkway CDA	Welwyn	-	1.9045	-	0.1209
3	Enbridge Parkway CDA	Dawn Export	-	0.3133	-	0.0134
4	Enbridge Parkway CDA	Union Parkway Belt	-	0.1329	-	0.0012
5	Enbridge Parkway CDA	Union CDA (Amended)	-	0.1814	-	0.0044
6	Enbridge Parkway CDA	Union ECDA	-	0.1421	-	0.0018
7	Enbridge CDA	Empress	-	2.4382	-	0.1570
8	Enbridge CDA	TransGas SSDA	-	2.0933	-	0.1337
9	Enbridge CDA	Centram SSDA	-	1.9521	-	0.1241
10	Enbridge CDA	Centram MDA	-	1.7380	-	0.1097
11	Enbridge CDA	Centrat MDA	-	1.6632	-	0.1046
12	Enbridge CDA	Union WDA	-	1.3004	-	0.0801
13	Enbridge CDA	Nipigon WDA	-	1.1491	-	0.0699
14	Enbridge CDA	Union NDA	-	0.5509	-	0.0294
15	Enbridge CDA	Calstock NDA	-	0.8862	-	0.0521
16	Enbridge CDA	Tunis NDA	-	0.6792	-	0.0381
17	Enbridge CDA	GMIT NDA	-	0.5254	-	0.0277
18	Enbridge CDA	Union SSM DA	-	0.8547	-	0.0500
19	Enbridge CDA	Union NCDA	-	0.2737	-	0.0107
20	Enbridge CDA	Union CDA	-	0.2148	-	0.0067
21	Enbridge CDA	Union EDA	-	0.3656	-	0.0169
22	Enbridge CDA	Enbridge CDA	-	0.1329	-	0.0012
23	Enbridge CDA	Enbridge Parkway CDA	-	0.1991	-	0.0056
24	Enbridge CDA	Enbridge EDA	-	0.4749	-	0.0243
25	Enbridge CDA	KPUC EDA	-	0.3510	-	0.0159
26	Enbridge CDA	GMIT EDA	-	0.6165	-	0.0339
27	Enbridge CDA	Enbridge SWDA	-	0.3710	-	0.0173
28	Enbridge CDA	Union SWDA	-	0.3739	-	0.0175
29	Enbridge CDA	Chippawa	-	0.2757	-	0.0108
30	Enbridge CDA	Cornwall	-	0.4824	-	0.0248
31	Enbridge CDA	East Hereford	-	0.7656	-	0.0439
32	Enbridge CDA	Emerson 1	-	1.6350	-	0.1027
33	Enbridge CDA	Emerson 2	-	1.6350	-	0.1027
34	Enbridge CDA	Iroquois	-	0.4487	-	0.0225
35	Enbridge CDA	Kirkwall	-	0.2212	-	0.0071
36	Enbridge CDA	Napierville	-	0.6046	-	0.0331
37	Enbridge CDA	Niagara Falls	-	0.2731	-	0.0106
38	Enbridge CDA	North Bay Junction	-	0.4133	-	0.0201
39	Enbridge CDA	Philipsburg	-	0.6184	-	0.0340
40	Enbridge CDA	Spruce	-	1.6632	-	0.1046
41	Enbridge CDA	St. Clair	-	0.3901	-	0.0186
42	Enbridge CDA	Welwyn	-	1.9521	-	0.1241
43	Enbridge CDA	Dawn Export	-	0.3711	-	0.0173
44	Enbridge CDA	Union Parkway Belt	-	0.1991	-	0.0056
45	Enbridge CDA	Union CDA (Amended)	-	0.2313	-	0.0078
46	Enbridge CDA	Union ECDA	-	0.2050	-	0.0060
47	Enbridge EDA	Empress	-	2.5112	-	0.1619
48	Enbridge EDA	TransGas SSDA	-	2.1663	-	0.1386
49	Enbridge EDA	Centram SSDA	-	2.0250	-	0.1291
50	Enbridge EDA	Centram MDA	-	1.8123	-	0.1147
51	Enbridge EDA	Centrat MDA	-	1.7151	-	0.1081
52	Enbridge EDA	Union WDA	-	1.3467	-	0.0832
53	Enbridge EDA	Nipigon WDA	-	1.1956	-	0.0730
54	Enbridge EDA	Union NDA	-	0.5979	-	0.0326
55	Enbridge EDA	Calstock NDA	-	0.9326	-	0.0552
56	Enbridge EDA	Tunis NDA	-	0.7256	-	0.0412
57	Enbridge EDA	GMIT NDA	-	0.5718	-	0.0308
58	Enbridge EDA	Union SSM DA	-	1.1626	-	0.0708
59	Enbridge EDA	Union NCDA	-	0.5343	-	0.0283
60	Enbridge EDA	Union CDA	-	0.5224	-	0.0275
61	Enbridge EDA	Union EDA	-	0.2733	-	0.0107
62	Enbridge EDA	Enbridge CDA	-	0.4749	-	0.0243
63	Enbridge EDA	Enbridge Parkway CDA	-	0.4986	-	0.0259
64	Enbridge EDA	Enbridge EDA	-	0.1329	-	0.0012
65	Enbridge EDA	KPUC EDA	-	0.2802	-	0.0111
66	Enbridge EDA	GMIT EDA	-	0.3660	-	0.0169
67	Enbridge EDA	Enbridge SWDA	-	0.6789	-	0.0381
68	Enbridge EDA	Union SWDA	-	0.6818	-	0.0383
69	Enbridge EDA	Chippawa	-	0.6060	-	0.0331
70	Enbridge EDA	Cornwall	-	0.2328	-	0.0079
71	Enbridge EDA	East Hereford	-	0.5150	-	0.0270
72	Enbridge EDA	Emerson 1	-	1.8150	-	0.1149
73	Enbridge EDA	Emerson 2	-	1.8150	-	0.1149
74	Enbridge EDA	Iroquois	-	0.2113	-	0.0065
75	Enbridge EDA	Kirkwall	-	0.5290	-	0.0279
76	Enbridge EDA	Napierville	-	0.3540	-	0.0161
77	Enbridge EDA	Niagara Falls	-	0.6041	-	0.0330
78	Enbridge EDA	North Bay Junction	-	0.4596	-	0.0233
79	Enbridge EDA	Philipsburg	-	0.3678	-	0.0171
80	Enbridge EDA	Spruce	-	1.7151	-	0.1081
81	Enbridge EDA	St. Clair	-	0.6979	-	0.0394
82	Enbridge EDA	Welwyn	-	2.0250	-	0.1291

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Enbridge EDA	Dawn Export	-	0.6789	-	0.0381
2	Enbridge EDA	Union Parkway Belt	-	0.4986	-	0.0259
3	Enbridge EDA	Union CDA (Amended)	-	0.5471	-	0.0292
4	Enbridge EDA	Union ECDA	-	0.5077	-	0.0265
5	GMIT EDA	Empress	-	2.6883	-	0.1739
6	GMIT EDA	TransGas SSDA	-	2.3434	-	0.1506
7	GMIT EDA	Centram SSDA	-	2.2022	-	0.1410
8	GMIT EDA	Centram MDA	-	1.9896	-	0.1267
9	GMIT EDA	Centrat MDA	-	1.8916	-	0.1201
10	GMIT EDA	Union WDA	-	1.5233	-	0.0952
11	GMIT EDA	Nipigon WDA	-	1.3721	-	0.0849
12	GMIT EDA	Union NDA	-	0.7742	-	0.0445
13	GMIT EDA	Calstock NDA	-	1.1092	-	0.0672
14	GMIT EDA	Tunis NDA	-	0.9022	-	0.0532
15	GMIT EDA	GMIT NDA	-	0.7483	-	0.0428
16	GMIT EDA	Union SSMDA	-	1.3043	-	0.0804
17	GMIT EDA	Union NCDA	-	0.7027	-	0.0397
18	GMIT EDA	Union CDA	-	0.6641	-	0.0371
19	GMIT EDA	Union EDA	-	0.3848	-	0.0182
20	GMIT EDA	Enbridge CDA	-	0.6165	-	0.0339
21	GMIT EDA	Enbridge Parkway CDA	-	0.6403	-	0.0355
22	GMIT EDA	Enbridge EDA	-	0.3660	-	0.0169
23	GMIT EDA	KPUC EDA	-	0.3987	-	0.0191
24	GMIT EDA	GMIT EDA	-	0.1329	-	0.0012
25	GMIT EDA	Enbridge SWDA	-	0.8206	-	0.0477
26	GMIT EDA	Union SWDA	-	0.8235	-	0.0479
27	GMIT EDA	Chippawa	-	0.7476	-	0.0427
28	GMIT EDA	Cornwall	-	0.2672	-	0.0103
29	GMIT EDA	East Hereford	-	0.3711	-	0.0173
30	GMIT EDA	Emerson 1	-	2.0045	-	0.1277
31	GMIT EDA	Emerson 2	-	2.0045	-	0.1277
32	GMIT EDA	Iroquois	-	0.3083	-	0.0130
33	GMIT EDA	Kirkwall	-	0.6706	-	0.0375
34	GMIT EDA	Napierville	-	0.2763	-	0.0109
35	GMIT EDA	Niagara Falls	-	0.7458	-	0.0426
36	GMIT EDA	North Bay Junction	-	0.6362	-	0.0352
37	GMIT EDA	Philipsburg	-	0.2881	-	0.0117
38	GMIT EDA	Spruce	-	1.8916	-	0.1201
39	GMIT EDA	St. Clair	-	0.8396	-	0.0489
40	GMIT EDA	Welwyn	-	2.2022	-	0.1410
41	GMIT EDA	Dawn Export	-	0.8206	-	0.0477
42	GMIT EDA	Union Parkway Belt	-	0.6403	-	0.0355
43	GMIT EDA	Union CDA (Amended)	-	0.6888	-	0.0387
44	GMIT EDA	Union ECDA	-	0.6494	-	0.0361
45	GMIT NDA	Empress	-	1.4581	-	0.1334
46	GMIT NDA	TransGas SSDA	-	1.2174	-	0.1101
47	GMIT NDA	Centram SSDA	-	1.1188	-	0.1006
48	GMIT NDA	Centram MDA	-	0.9706	-	0.0862
49	GMIT NDA	Centrat MDA	-	0.9021	-	0.0796
50	GMIT NDA	Union WDA	-	0.6451	-	0.0547
51	GMIT NDA	Nipigon WDA	-	0.5395	-	0.0444
52	GMIT NDA	Union NDA	-	0.1848	-	0.0101
53	GMIT NDA	Calstock NDA	-	0.3561	-	0.0267
54	GMIT NDA	Tunis NDA	-	0.2116	-	0.0127
55	GMIT NDA	GMIT NDA	-	0.0927	-	0.0012
56	GMIT NDA	Union SSMDA	-	0.8339	-	0.0730
57	GMIT NDA	Union NCDA	-	0.2881	-	0.0182
58	GMIT NDA	Union CDA	-	0.4156	-	0.0297
59	GMIT NDA	Union EDA	-	0.4710	-	0.0347
60	GMIT NDA	Enbridge CDA	-	0.3937	-	0.0277
61	GMIT NDA	Enbridge Parkway CDA	-	0.3978	-	0.0281
62	GMIT NDA	Enbridge EDA	-	0.4285	-	0.0308
63	GMIT NDA	KPUC EDA	-	0.5080	-	0.0380
64	GMIT NDA	GMIT EDA	-	0.5608	-	0.0428
65	GMIT NDA	Enbridge SWDA	-	0.5329	-	0.0403
66	GMIT NDA	Union SWDA	-	0.5351	-	0.0405
67	GMIT NDA	Chippawa	-	0.4782	-	0.0353
68	GMIT NDA	Cornwall	-	0.4601	-	0.0337
69	GMIT NDA	East Hereford	-	0.6723	-	0.0528
70	GMIT NDA	Emerson 1	-	0.9808	-	0.0872
71	GMIT NDA	Emerson 2	-	0.9808	-	0.0872
72	GMIT NDA	Iroquois	-	0.4403	-	0.0319
73	GMIT NDA	Kirkwall	-	0.4205	-	0.0301
74	GMIT NDA	Napierville	-	0.5516	-	0.0419
75	GMIT NDA	Niagara Falls	-	0.4768	-	0.0352
76	GMIT NDA	North Bay Junction	-	0.1710	-	0.0088
77	GMIT NDA	Philipsburg	-	0.5620	-	0.0429
78	GMIT NDA	Spruce	-	0.9021	-	0.0796
79	GMIT NDA	St. Clair	-	0.5095	-	0.0415
80	GMIT NDA	Welwyn	-	1.1188	-	0.1006
81	GMIT NDA	Dawn Export	-	0.5329	-	0.0403
82	GMIT NDA	Union Parkway Belt	-	0.3978	-	0.0281

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	GMIT NDA	Union CDA (Amended)	-	0.4341	-	0.0313
2	GMIT NDA	Union ECDA	-	0.4046	-	0.0287
3	Grand Coulee	Empress	9.13291	0.3003	0.64864	0.0213
4	Grand Coulee	TransGas SSDA	4.01135	0.1319	0.15117	0.0050
5	Grand Coulee	Centram SSDA	6.82763	0.2245	0.42471	0.0139
6	Grand Coulee	Centram MDA	11.38070	0.3742	0.86697	0.0284
7	Grand Coulee	Centrat MDA	13.41892	0.4412	1.06493	0.0349
8	Grand Coulee	Union WDA	21.93833	0.7213	1.89246	0.0621
9	Grand Coulee	Nipigon WDA	24.44709	0.8037	2.13612	0.0700
10	Grand Coulee	Union NDA	37.14149	1.2211	3.36916	0.1105
11	Grand Coulee	Calstock NDA	30.02764	0.9872	2.67817	0.0878
12	Grand Coulee	Tunis NDA	34.42102	1.1317	3.10494	0.1018
13	Grand Coulee	GMIT NDA	38.03695	1.2505	3.45617	0.1133
14	Grand Coulee	Union SSMMDA	33.10063	1.0882	2.97666	0.0976
15	Grand Coulee	Union NCDA	46.20140	1.5190	3.94088	0.1292
16	Grand Coulee	Union CDA	47.80283	1.5716	4.08574	0.1340
17	Grand Coulee	Union EDA	51.69738	1.6996	4.43802	0.1455
18	Grand Coulee	Enbridge CDA	48.79320	1.6042	4.17532	0.1369
19	Grand Coulee	Enbridge Parkway CDA	47.70854	1.5685	4.07722	0.1337
20	Grand Coulee	Enbridge EDA	50.45699	1.6589	4.32581	0.1418
21	Grand Coulee	KPUC EDA	52.89033	1.7389	4.54594	0.1491
22	Grand Coulee	GMIT EDA	54.49359	1.7916	4.69095	0.1538
23	Grand Coulee	Enbridge SWDA	43.59834	1.4334	3.70539	0.1215
24	Grand Coulee	Union SWDA	43.53294	1.4312	3.69949	0.1213
25	Grand Coulee	Chippawa	49.07760	1.6135	4.20105	0.1377
26	Grand Coulee	Cornwall	51.43154	1.6909	4.41399	0.1447
27	Grand Coulee	East Hereford	57.88565	1.9031	4.99780	0.1639
28	Grand Coulee	Emerson 1	13.77480	0.4529	1.09952	0.0361
29	Grand Coulee	Emerson 2	13.77480	0.4529	1.09952	0.0361
30	Grand Coulee	Iroquois	50.82929	1.6711	4.35952	0.1429
31	Grand Coulee	Kirkwall	47.01626	1.5457	4.01460	0.1316
32	Grand Coulee	Napierville	54.21528	1.7824	4.66579	0.1530
33	Grand Coulee	Niagara Falls	49.03440	1.6121	4.19714	0.1376
34	Grand Coulee	North Bay Junction	40.06757	1.3173	3.65339	0.1198
35	Grand Coulee	Philipsburg	54.53130	1.7928	4.69441	0.1539
36	Grand Coulee	Spruce	13.41892	0.4412	1.06493	0.0349
37	Grand Coulee	St. Clair	40.20110	1.3217	3.66634	0.1202
38	Grand Coulee	Welwyn	6.82763	0.2245	0.42471	0.0139
39	Grand Coulee	Dawn Export	43.59834	1.4334	3.70539	0.1215
40	Grand Coulee	Union Parkway Belt	47.70854	1.5685	4.07722	0.1337
41	Grand Coulee	Union CDA (Amended)	47.61121	1.5653	4.06839	0.1334
42	Grand Coulee	Union ECDA	47.91720	1.5754	4.09608	0.1343
43	Herbert	Empress	6.07269	0.1997	0.35139	0.0115
44	Herbert	TransGas SSDA	6.96633	0.2290	0.43820	0.0144
45	Herbert	Centram SSDA	9.88785	0.3251	0.72196	0.0237
46	Herbert	Centram MDA	14.44031	0.4748	1.16418	0.0382
47	Herbert	Centrat MDA	16.47914	0.5418	1.36219	0.0447
48	Herbert	Union WDA	24.99885	0.8219	2.18971	0.0718
49	Herbert	Nipigon WDA	27.50731	0.9044	2.43338	0.0798
50	Herbert	Union NDA	40.20171	1.3217	3.66640	0.1202
51	Herbert	Calstock NDA	33.08755	1.0878	2.97542	0.0976
52	Herbert	Tunis NDA	37.48155	1.2323	3.40218	0.1116
53	Herbert	GMIT NDA	41.09748	1.3512	3.75341	0.1231
54	Herbert	Union SSMMDA	36.16085	1.1889	3.27392	0.1073
55	Herbert	Union NCDA	49.48761	1.6270	4.23813	0.1390
56	Herbert	Union CDA	51.08905	1.6796	4.38300	0.1437
57	Herbert	Union EDA	54.98299	1.8077	4.73526	0.1553
58	Herbert	Enbridge CDA	52.07911	1.7122	4.47258	0.1466
59	Herbert	Enbridge Parkway CDA	50.99476	1.6765	4.37446	0.1434
60	Herbert	Enbridge EDA	53.74290	1.7669	4.62307	0.1516
61	Herbert	KPUC EDA	56.17624	1.8469	4.84318	0.1588
62	Herbert	GMIT EDA	57.77980	1.8996	4.98824	0.1636
63	Herbert	Enbridge SWDA	46.88425	1.5414	4.00264	0.1312
64	Herbert	Union SWDA	46.81885	1.5393	3.99675	0.1310
65	Herbert	Chippawa	52.36381	1.7216	4.49831	0.1475
66	Herbert	Cornwall	54.71776	1.7989	4.71125	0.1545
67	Herbert	East Hereford	61.17126	2.0111	5.29504	0.1736
68	Herbert	Emerson 1	16.83532	0.5535	1.39677	0.0458
69	Herbert	Emerson 2	16.83532	0.5535	1.39677	0.0458
70	Herbert	Iroquois	54.11551	1.7791	4.65676	0.1527
71	Herbert	Kirkwall	50.30248	1.6538	4.31184	0.1414
72	Herbert	Napierville	57.50149	1.8905	4.96305	0.1627
73	Herbert	Niagara Falls	52.32062	1.7201	4.49440	0.1474
74	Herbert	North Bay Junction	43.12810	1.4179	3.95063	0.1295
75	Herbert	Philipsburg	57.81752	1.9009	4.99167	0.1637
76	Herbert	Spruce	16.47914	0.5418	1.36219	0.0447
77	Herbert	St. Clair	43.26102	1.4223	3.96358	0.1300
78	Herbert	Welwyn	9.88785	0.3251	0.72196	0.0237
79	Herbert	Dawn Export	46.88425	1.5414	4.00264	0.1312
80	Herbert	Union Parkway Belt	50.99476	1.6765	4.37446	0.1434
81	Herbert	Union CDA (Amended)	50.89682	1.6733	4.36563	0.1431
82	Herbert	Union ECDA	51.20311	1.6834	4.39333	0.1440

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Iroquois	Empress	76.87965	2.5276	4.97262	0.1630
2	Iroquois	TransGas SSDA	66.39076	2.1827	4.26164	0.1397
3	Iroquois	Centram SSDA	62.09289	2.0414	3.97033	0.1302
4	Iroquois	Centram MDA	55.63117	1.8290	3.53233	0.1158
5	Iroquois	Centrat MDA	52.64790	1.7309	3.33012	0.1092
6	Iroquois	Union WDA	41.44423	1.3626	2.57071	0.0843
7	Iroquois	Nipigon WDA	36.84462	1.2113	2.25893	0.0741
8	Iroquois	Union NDA	18.67127	0.6139	1.02712	0.0337
9	Iroquois	Calstock NDA	28.84747	0.9484	1.71689	0.0563
10	Iroquois	Tunis NDA	22.55122	0.7414	1.29011	0.0423
11	Iroquois	GMIT NDA	17.87314	0.5876	0.97300	0.0319
12	Iroquois	Union SSMDA	34.56246	1.1363	2.10429	0.0690
13	Iroquois	Union NCDA	16.32037	0.5366	0.86775	0.0285
14	Iroquois	Union CDA	15.08910	0.4961	0.78432	0.0257
15	Iroquois	Union EDA	6.75950	0.2222	0.21972	0.0072
16	Iroquois	Enbridge CDA	13.64887	0.4487	0.68669	0.0225
17	Iroquois	Enbridge Parkway CDA	14.36427	0.4723	0.73518	0.0241
18	Iroquois	Enbridge EDA	6.42674	0.2113	0.19716	0.0065
19	Iroquois	KPUC EDA	7.01621	0.2307	0.23711	0.0078
20	Iroquois	GMIT EDA	9.37685	0.3083	0.39712	0.0130
21	Iroquois	Enbridge SWDA	19.84992	0.6526	1.10701	0.0363
22	Iroquois	Union SWDA	19.93691	0.6555	1.11291	0.0365
23	Iroquois	Chippawa	17.63102	0.5797	0.95660	0.0314
24	Iroquois	Cornwall	5.29007	0.1739	0.12011	0.0039
25	Iroquois	East Hereford	13.90255	0.4571	0.70390	0.0231
26	Iroquois	Emerson 1	56.07890	1.8437	3.56269	0.1168
27	Iroquois	Emerson 2	56.07890	1.8437	3.56269	0.1168
28	Iroquois	Iroquois	4.04238	0.1329	0.03553	0.0012
29	Iroquois	Kirkwall	15.28803	0.5026	0.79781	0.0262
30	Iroquois	Napierville	9.00455	0.2960	0.37191	0.0122
31	Iroquois	Niagara Falls	17.57293	0.5777	0.95268	0.0312
32	Iroquois	North Bay Junction	14.45978	0.4754	0.74166	0.0243
33	Iroquois	Philipsburg	9.42673	0.3099	0.40053	0.0131
34	Iroquois	Spruce	52.64790	1.7309	3.33012	0.1092
35	Iroquois	St. Clair	20.42601	0.6715	1.14607	0.0376
36	Iroquois	Welwyn	62.09289	2.0414	3.97033	0.1302
37	Iroquois	Dawn Export	19.84992	0.6526	1.10701	0.0363
38	Iroquois	Union Parkway Belt	14.36427	0.4723	0.73518	0.0241
39	Iroquois	Union CDA (Amended)	15.83978	0.5208	0.83519	0.0274
40	Iroquois	Union ECDA	14.64258	0.4814	0.75406	0.0247
41	Kirkwall	Empress	71.79094	2.3603	4.62770	0.1517
42	Kirkwall	TransGas SSDA	61.30114	2.0154	3.91669	0.1284
43	Kirkwall	Centram SSDA	57.00418	1.8741	3.62541	0.1189
44	Kirkwall	Centram MDA	50.50323	1.6604	3.18477	0.1044
45	Kirkwall	Centrat MDA	50.48011	1.6596	3.18318	0.1044
46	Kirkwall	Union WDA	40.64184	1.3362	2.51632	0.0825
47	Kirkwall	Nipigon WDA	36.04223	1.1850	2.20457	0.0723
48	Kirkwall	Union NDA	17.85185	0.5869	0.97158	0.0319
49	Kirkwall	Calstock NDA	28.04508	0.9220	1.66251	0.0545
50	Kirkwall	Tunis NDA	21.74944	0.7151	1.23575	0.0405
51	Kirkwall	GMIT NDA	17.07014	0.5612	0.91861	0.0301
52	Kirkwall	Union SSMDA	23.31711	0.7666	1.34203	0.0440
53	Kirkwall	Union NCDA	9.41639	0.3096	0.39982	0.0131
54	Kirkwall	Union CDA	5.09205	0.1674	0.10669	0.0035
55	Kirkwall	Union EDA	12.76557	0.4197	0.62682	0.0206
56	Kirkwall	Enbridge CDA	6.72665	0.2212	0.21748	0.0071
57	Kirkwall	Enbridge Parkway CDA	4.96613	0.1633	0.09815	0.0032
58	Kirkwall	Enbridge EDA	16.08920	0.5290	0.85210	0.0279
59	Kirkwall	KPUC EDA	12.31388	0.4048	0.59622	0.0196
60	Kirkwall	GMIT EDA	20.39803	0.6706	1.14417	0.0375
61	Kirkwall	Enbridge SWDA	8.60427	0.2829	0.34474	0.0113
62	Kirkwall	Union SWDA	8.69126	0.2857	0.35064	0.0115
63	Kirkwall	Chippawa	6.79326	0.2233	0.22199	0.0073
64	Kirkwall	Cornwall	16.31215	0.5363	0.86723	0.0284
65	Kirkwall	East Hereford	24.92494	0.8195	1.45101	0.0476
66	Kirkwall	Emerson 1	47.04880	1.5468	2.95061	0.0967
67	Kirkwall	Emerson 2	47.04880	1.5468	2.95061	0.0967
68	Kirkwall	Iroquois	15.28803	0.5026	0.79781	0.0262
69	Kirkwall	Kirkwall	4.04238	0.1329	0.03553	0.0012
70	Kirkwall	Napierville	20.02725	0.6584	1.11903	0.0367
71	Kirkwall	Niagara Falls	6.73516	0.2214	0.21807	0.0072
72	Kirkwall	North Bay Junction	13.65769	0.4490	0.68730	0.0225
73	Kirkwall	Philipsburg	20.44943	0.6723	1.14764	0.0376
74	Kirkwall	Spruce	50.48011	1.6596	3.18318	0.1044
75	Kirkwall	St. Clair	9.18005	0.3018	0.38379	0.0126
76	Kirkwall	Welwyn	57.00418	1.8741	3.62541	0.1189
77	Kirkwall	Dawn Export	8.60427	0.2829	0.34474	0.0113
78	Kirkwall	Union Parkway Belt	4.96613	0.1633	0.09815	0.0032
79	Kirkwall	Union CDA (Amended)	4.83564	0.1590	0.08930	0.0029
80	Kirkwall	Union ECDA	5.24475	0.1724	0.11703	0.0038
81	KPUC EDA	Empress	-	2.6180	-	0.1692
82	KPUC EDA	TransGas SSDA	-	2.2731	-	0.1458



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1	KPUC EDA	Centram SSDA	-	2.1318	-	0.1363
2	KPUC EDA	Centram MDA	-	1.9177	-	0.1218
3	KPUC EDA	Centrat MDA	-	1.8213	-	0.1153
4	KPUC EDA	Union WDA	-	1.4529	-	0.0904
5	KPUC EDA	Nipigon WDA	-	1.3017	-	0.0802
6	KPUC EDA	Union NDA	-	0.7042	-	0.0398
7	KPUC EDA	Calstock NDA	-	1.0388	-	0.0624
8	KPUC EDA	Tunis NDA	-	0.8318	-	0.0484
9	KPUC EDA	GMIT NDA	-	0.6780	-	0.0380
10	KPUC EDA	Union SSMMDA	-	1.0385	-	0.0624
11	KPUC EDA	Union NCDA	-	0.4468	-	0.0224
12	KPUC EDA	Union CDA	-	0.3983	-	0.0191
13	KPUC EDA	Union EDA	-	0.1971	-	0.0055
14	KPUC EDA	Enbridge CDA	-	0.3510	-	0.0159
15	KPUC EDA	Enbridge Parkway CDA	-	0.3745	-	0.0175
16	KPUC EDA	Enbridge EDA	-	0.2802	-	0.0111
17	KPUC EDA	KPUC EDA	-	0.1329	-	0.0012
18	KPUC EDA	GMIT EDA	-	0.3987	-	0.0191
19	KPUC EDA	Enbridge SWDA	-	0.5548	-	0.0297
20	KPUC EDA	Union SWDA	-	0.5577	-	0.0299
21	KPUC EDA	Chippawa	-	0.4819	-	0.0248
22	KPUC EDA	Cornwall	-	0.2644	-	0.0101
23	KPUC EDA	East Hereford	-	0.5475	-	0.0292
24	KPUC EDA	Emerson 1	-	1.8188	-	0.1151
25	KPUC EDA	Emerson 2	-	1.8188	-	0.1151
26	KPUC EDA	Iroquois	-	0.2307	-	0.0078
27	KPUC EDA	Kirkwall	-	0.4048	-	0.0196
28	KPUC EDA	Napierville	-	0.3865	-	0.0183
29	KPUC EDA	Niagara Falls	-	0.4800	-	0.0246
30	KPUC EDA	North Bay Junction	-	0.5658	-	0.0304
31	KPUC EDA	Philipsburg	-	0.4004	-	0.0192
32	KPUC EDA	Spruce	-	1.8213	-	0.1153
33	KPUC EDA	St. Clair	-	0.5738	-	0.0310
34	KPUC EDA	Welwyn	-	2.1318	-	0.1363
35	KPUC EDA	Dawn Export	-	0.5548	-	0.0297
36	KPUC EDA	Union Parkway Belt	-	0.3745	-	0.0175
37	KPUC EDA	Union CDA (Amended)	-	0.4230	-	0.0208
38	KPUC EDA	Union ECDA	-	0.3836	-	0.0181
39	Lachenaie	Empress	81.04825	2.6646	5.25510	0.1723
40	Lachenaie	TransGas SSDA	70.55602	2.3197	4.54411	0.1490
41	Lachenaie	Centram SSDA	66.26271	2.1785	4.25281	0.1394
42	Lachenaie	Centram MDA	59.79917	1.9660	3.81478	0.1251
43	Lachenaie	Centrat MDA	56.81560	1.8679	3.61260	0.1185
44	Lachenaie	Union WDA	45.60949	1.4995	2.85317	0.0936
45	Lachenaie	Nipigon WDA	41.01353	1.3484	2.54141	0.0833
46	Lachenaie	Union NDA	22.83775	0.7508	1.30959	0.0429
47	Lachenaie	Calstock NDA	33.01303	1.0854	1.99935	0.0656
48	Lachenaie	Tunis NDA	26.71983	0.8785	1.57259	0.0516
49	Lachenaie	GMIT NDA	22.03870	0.7246	1.25547	0.0412
50	Lachenaie	Union SSMMDA	38.95189	1.2806	2.40171	0.0787
51	Lachenaie	Union NCDA	20.65322	0.6790	1.16145	0.0381
52	Lachenaie	Union CDA	19.47610	0.6403	1.08173	0.0355
53	Lachenaie	Union EDA	10.99350	0.3614	0.50672	0.0166
54	Lachenaie	Enbridge CDA	18.03374	0.5929	0.98394	0.0323
55	Lachenaie	Enbridge Parkway CDA	18.75248	0.6165	1.03261	0.0339
56	Lachenaie	Enbridge EDA	10.41649	0.3425	0.46746	0.0153
57	Lachenaie	KPUC EDA	11.40473	0.3750	0.53454	0.0175
58	Lachenaie	GMIT EDA	6.55814	0.2156	0.20620	0.0068
59	Lachenaie	Enbridge SWDA	24.23722	0.7968	1.40444	0.0461
60	Lachenaie	Union SWDA	24.32725	0.7998	1.41033	0.0462
61	Lachenaie	Chippawa	22.01984	0.7239	1.25402	0.0411
62	Lachenaie	Cornwall	7.40463	0.2434	0.26353	0.0086
63	Lachenaie	East Hereford	9.29108	0.3055	0.39131	0.0128
64	Lachenaie	Emerson 1	60.24812	1.9808	3.84517	0.1261
65	Lachenaie	Emerson 2	60.24812	1.9808	3.84517	0.1261
66	Lachenaie	Iroquois	8.65293	0.2845	0.34811	0.0114
67	Lachenaie	Kirkwall	19.67441	0.6468	1.09523	0.0359
68	Lachenaie	Napierville	8.19881	0.2696	0.31727	0.0104
69	Lachenaie	Niagara Falls	21.96296	0.7221	1.25010	0.0410
70	Lachenaie	North Bay Junction	18.62960	0.6125	1.02414	0.0336
71	Lachenaie	Philipsburg	8.61978	0.2834	0.34588	0.0113
72	Lachenaie	Spruce	56.81560	1.8679	3.61260	0.1185
73	Lachenaie	St. Clair	24.81422	0.8158	1.44348	0.0473
74	Lachenaie	Welwyn	66.26271	2.1785	4.25281	0.1394
75	Lachenaie	Dawn Export	24.23722	0.7968	1.40444	0.0461
76	Lachenaie	Union Parkway Belt	18.75248	0.6165	1.03261	0.0339
77	Lachenaie	Union CDA (Amended)	20.22769	0.6650	1.13262	0.0371
78	Lachenaie	Union ECDA	19.03140	0.6257	1.05149	0.0345
79	Liebenthal	Empress	3.55632	0.1169	0.10699	0.0035
80	Liebenthal	TransGas SSDA	9.41092	0.3094	0.67563	0.0222
81	Liebenthal	Centram SSDA	12.40392	0.4078	0.96636	0.0317
82	Liebenthal	Centram MDA	16.95668	0.5575	1.40858	0.0462

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1	Liebenthal	Centrat MDA	18.99551	0.6245	1.60659	0.0527
2	Liebenthal	Union WDA	27.51461	0.9046	2.43410	0.0798
3	Liebenthal	Nipigon WDA	30.02338	0.9871	2.67776	0.0878
4	Liebenthal	Union NDA	42.71778	1.4044	3.91083	0.1282
5	Liebenthal	Calstock NDA	35.60393	1.1705	3.21982	0.1056
6	Liebenthal	Tunis NDA	39.99761	1.3150	3.64659	0.1196
7	Liebenthal	GMIT NDA	43.61385	1.4339	3.99782	0.1311
8	Liebenthal	Union SSMDA	38.67723	1.2716	3.51833	0.1154
9	Liebenthal	Union NCDA	52.18983	1.7158	4.48257	0.1470
10	Liebenthal	Union CDA	53.79096	1.7685	4.62741	0.1517
11	Liebenthal	Union EDA	57.68490	1.8965	4.97965	0.1633
12	Liebenthal	Enbridge CDA	54.78072	1.8010	4.71696	0.1547
13	Liebenthal	Enbridge Parkway CDA	53.69667	1.7654	4.61887	0.1514
14	Liebenthal	Enbridge EDA	56.44390	1.8557	4.86739	0.1596
15	Liebenthal	KPUC EDA	58.87785	1.9357	5.08759	0.1668
16	Liebenthal	GMIT EDA	60.48111	1.9884	5.23261	0.1716
17	Liebenthal	Enbridge SWDA	49.58616	1.6302	4.24704	0.1393
18	Liebenthal	Union SWDA	49.52077	1.6281	4.24116	0.1391
19	Liebenthal	Chippawa	55.06542	1.8104	4.74270	0.1555
20	Liebenthal	Cornwall	57.41937	1.8878	4.95564	0.1625
21	Liebenthal	East Hereford	63.87318	2.0999	5.53945	0.1816
22	Liebenthal	Emerson 1	19.35139	0.6362	1.64117	0.0538
23	Liebenthal	Emerson 2	19.35139	0.6362	1.64117	0.0538
24	Liebenthal	Iroquois	56.81742	1.8680	4.90117	0.1607
25	Liebenthal	Kirkwall	53.00439	1.7426	4.55625	0.1494
26	Liebenthal	Napierville	60.20310	1.9793	5.20744	0.1707
27	Liebenthal	Niagara Falls	55.02193	1.8089	4.73879	0.1554
28	Liebenthal	North Bay Junction	45.64386	1.5006	4.19504	0.1375
29	Liebenthal	Philipsburg	60.51943	1.9897	5.23606	0.1717
30	Liebenthal	Spruce	18.99551	0.6245	1.60659	0.0527
31	Liebenthal	St. Clair	45.77739	1.5050	4.20799	0.1380
32	Liebenthal	Welwyn	12.40392	0.4078	0.96636	0.0317
33	Liebenthal	Dawn Export	49.58616	1.6302	4.24704	0.1393
34	Liebenthal	Union Parkway Belt	53.69667	1.7654	4.61887	0.1514
35	Liebenthal	Union CDA (Amended)	53.59843	1.7621	4.61002	0.1512
36	Liebenthal	Union ECDA	53.90503	1.7722	4.63773	0.1521
37	Napierville	Empress	81.39865	2.6761	5.27890	0.1731
38	Napierville	TransGas SSDA	70.90885	2.3313	4.56789	0.1498
39	Napierville	Centram SSDA	66.61128	2.1900	4.27661	0.1402
40	Napierville	Centram MDA	60.14957	1.9775	3.83862	0.1259
41	Napierville	Centrat MDA	57.16630	1.8794	3.63639	0.1192
42	Napierville	Union WDA	45.96263	1.5111	2.87699	0.0943
43	Napierville	Nipigon WDA	41.36302	1.3599	2.56521	0.0841
44	Napierville	Union NDA	23.18967	0.7624	1.33339	0.0437
45	Napierville	Calstock NDA	33.36587	1.0970	2.02316	0.0663
46	Napierville	Tunis NDA	27.06962	0.8900	1.59638	0.0523
47	Napierville	GMIT NDA	22.39153	0.7362	1.27928	0.0419
48	Napierville	Union SSMDA	39.30168	1.2921	2.42551	0.0795
49	Napierville	Union NCDA	21.00362	0.6905	1.18522	0.0389
50	Napierville	Union CDA	19.82771	0.6519	1.10552	0.0363
51	Napierville	Union EDA	11.34420	0.3730	0.53047	0.0174
52	Napierville	Enbridge CDA	18.38840	0.6046	1.00794	0.0331
53	Napierville	Enbridge Parkway CDA	19.10349	0.6281	1.05640	0.0346
54	Napierville	Enbridge EDA	10.76598	0.3540	0.49129	0.0161
55	Napierville	KPUC EDA	11.75513	0.3865	0.55833	0.0183
56	Napierville	GMIT EDA	8.40260	0.2763	0.33109	0.0109
57	Napierville	Enbridge SWDA	24.58883	0.8084	1.42823	0.0468
58	Napierville	Union SWDA	24.67613	0.8113	1.43413	0.0470
59	Napierville	Chippawa	22.36963	0.7354	1.27782	0.0419
60	Napierville	Cornwall	7.75686	0.2550	0.28733	0.0094
61	Napierville	East Hereford	13.44782	0.4421	0.67305	0.0221
62	Napierville	Emerson 1	60.59730	1.9922	3.86897	0.1269
63	Napierville	Emerson 2	60.59730	1.9922	3.86897	0.1269
64	Napierville	Iroquois	9.00455	0.2960	0.37191	0.0122
65	Napierville	Kirkwall	20.02725	0.6584	1.11903	0.0367
66	Napierville	Napierville	4.04238	0.1329	0.03553	0.0012
67	Napierville	Niagara Falls	22.31215	0.7336	1.27390	0.0418
68	Napierville	North Bay Junction	18.97818	0.6239	1.04793	0.0344
69	Napierville	Philipsburg	6.26370	0.2059	0.18611	0.0061
70	Napierville	Spruce	57.16630	1.8794	3.63639	0.1192
71	Napierville	St. Clair	25.16493	0.8273	1.46729	0.0481
72	Napierville	Welwyn	66.61128	2.1900	4.27661	0.1402
73	Napierville	Dawn Export	24.58883	0.8084	1.42823	0.0468
74	Napierville	Union Parkway Belt	19.10349	0.6281	1.05640	0.0346
75	Napierville	Union CDA (Amended)	20.57870	0.6766	1.15641	0.0379
76	Napierville	Union ECDA	19.38150	0.6372	1.07527	0.0353
77	Niagara Falls	Empress	74.48433	2.4488	4.81024	0.1577
78	Niagara Falls	TransGas SSDA	63.99484	2.1039	4.09926	0.1344
79	Niagara Falls	Centram SSDA	59.69727	1.9627	3.80795	0.1249
80	Niagara Falls	Centram MDA	53.19601	1.7489	3.36727	0.1104
81	Niagara Falls	Centrat MDA	53.17290	1.7482	3.36572	0.1104
82	Niagara Falls	Union WDA	42.92643	1.4113	2.67121	0.0876



Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Niagara Falls	Nipigon WDA	38.32743	1.2601	2.35945	0.0774
2	Niagara Falls	Union NDA	20.13614	0.6620	1.12642	0.0369
3	Niagara Falls	Calstock NDA	30.33028	0.9972	1.81739	0.0596
4	Niagara Falls	Tunis NDA	24.03403	0.7902	1.39062	0.0456
5	Niagara Falls	GMIT NDA	19.35534	0.6363	1.07350	0.0352
6	Niagara Falls	Union SSMDA	26.00990	0.8551	1.52457	0.0500
7	Niagara Falls	Union NCDA	11.70129	0.3847	0.55468	0.0182
8	Niagara Falls	Union CDA	6.58795	0.2166	0.20809	0.0068
9	Niagara Falls	Union EDA	15.05017	0.4948	0.78168	0.0256
10	Niagara Falls	Enbridge CDA	8.30710	0.2731	0.32461	0.0106
11	Niagara Falls	Enbridge Parkway CDA	7.25103	0.2384	0.25303	0.0083
12	Niagara Falls	Enbridge EDA	18.37380	0.6041	1.00696	0.0330
13	Niagara Falls	KPUC EDA	14.59909	0.4800	0.75110	0.0246
14	Niagara Falls	GMIT EDA	22.68414	0.7458	1.29911	0.0426
15	Niagara Falls	Enbridge SWDA	11.29705	0.3714	0.52728	0.0173
16	Niagara Falls	Union SWDA	11.38405	0.3743	0.53318	0.0175
17	Niagara Falls	Chippawa	4.97708	0.1636	0.09891	0.0032
18	Niagara Falls	Cornwall	18.59736	0.6114	1.02210	0.0335
19	Niagara Falls	East Hereford	27.21014	0.8946	1.60589	0.0527
20	Niagara Falls	Emerson 1	49.74159	1.6353	3.13314	0.1027
21	Niagara Falls	Emerson 2	49.74159	1.6353	3.13314	0.1027
22	Niagara Falls	Iroquois	17.57293	0.5777	0.95268	0.0312
23	Niagara Falls	Kirkwall	6.73516	0.2214	0.21807	0.0072
24	Niagara Falls	Napierville	22.31215	0.7336	1.27390	0.0418
25	Niagara Falls	Niagara Falls	4.04238	0.1329	0.03553	0.0012
26	Niagara Falls	North Bay Junction	15.94259	0.5241	0.84217	0.0276
27	Niagara Falls	Philipsburg	22.73433	0.7474	1.30252	0.0427
28	Niagara Falls	Spruce	53.17290	1.7482	3.36572	0.1104
29	Niagara Falls	St. Clair	11.87315	0.3904	0.56633	0.0186
30	Niagara Falls	Welwyn	59.69727	1.9627	3.80795	0.1249
31	Niagara Falls	Dawn Export	11.29705	0.3714	0.52728	0.0173
32	Niagara Falls	Union Parkway Belt	7.25103	0.2384	0.25303	0.0083
33	Niagara Falls	Union CDA (Amended)	5.94220	0.1954	0.16430	0.0054
34	Niagara Falls	Union ECDA	6.97241	0.2292	0.23415	0.0077
35	Nipigon WDA	Empress	-	1.0113	-	0.0901
36	Nipigon WDA	TransGas SSDA	-	0.7706	-	0.0668
37	Nipigon WDA	Centram SSDA	-	0.6720	-	0.0573
38	Nipigon WDA	Centram MDA	-	0.5238	-	0.0429
39	Nipigon WDA	Centrat MDA	-	0.4553	-	0.0363
40	Nipigon WDA	Union WDA	-	0.2022	-	0.0118
41	Nipigon WDA	Nipigon WDA	-	0.0927	-	0.0012
42	Nipigon WDA	Union NDA	-	0.5101	-	0.0416
43	Nipigon WDA	Calstock NDA	-	0.2762	-	0.0189
44	Nipigon WDA	Tunis NDA	-	0.4207	-	0.0329
45	Nipigon WDA	GMIT NDA	-	0.5395	-	0.0444
46	Nipigon WDA	Union SSMDA	-	1.1694	-	0.1055
47	Nipigon WDA	Union NCDA	-	0.7555	-	0.0603
48	Nipigon WDA	Union CDA	-	0.8830	-	0.0718
49	Nipigon WDA	Union EDA	-	0.9383	-	0.0768
50	Nipigon WDA	Enbridge CDA	-	0.8610	-	0.0699
51	Nipigon WDA	Enbridge Parkway CDA	-	0.8652	-	0.0702
52	Nipigon WDA	Enbridge EDA	-	0.8958	-	0.0730
53	Nipigon WDA	KPUC EDA	-	0.9754	-	0.0802
54	Nipigon WDA	GMIT EDA	-	1.0281	-	0.0849
55	Nipigon WDA	Enbridge SWDA	-	1.0003	-	0.0824
56	Nipigon WDA	Union SWDA	-	1.0024	-	0.0826
57	Nipigon WDA	Chippawa	-	0.9456	-	0.0775
58	Nipigon WDA	Cornwall	-	0.9275	-	0.0759
59	Nipigon WDA	East Hereford	-	1.1396	-	0.0950
60	Nipigon WDA	Emerson 1	-	0.5340	-	0.0439
61	Nipigon WDA	Emerson 2	-	0.5340	-	0.0439
62	Nipigon WDA	Iroquois	-	0.9077	-	0.0741
63	Nipigon WDA	Kirkwall	-	0.8879	-	0.0723
64	Nipigon WDA	Napierville	-	1.0190	-	0.0841
65	Nipigon WDA	Niagara Falls	-	0.9442	-	0.0774
66	Nipigon WDA	North Bay Junction	-	0.6063	-	0.0509
67	Nipigon WDA	Philipsburg	-	1.0294	-	0.0850
68	Nipigon WDA	Spruce	-	0.4553	-	0.0363
69	Nipigon WDA	St. Clair	-	0.9448	-	0.0837
70	Nipigon WDA	Welwyn	-	0.6720	-	0.0573
71	Nipigon WDA	Dawn Export	-	1.0003	-	0.0824
72	Nipigon WDA	Union Parkway Belt	-	0.8652	-	0.0702
73	Nipigon WDA	Union CDA (Amended)	-	0.9015	-	0.0735
74	Nipigon WDA	Union ECDA	-	0.8720	-	0.0709
75	North Bay Junction	Empress	66.46224	2.1851	4.26650	0.1399
76	North Bay Junction	TransGas SSDA	55.97245	1.8402	3.55548	0.1166
77	North Bay Junction	Centram SSDA	51.67548	1.6989	3.26421	0.1070
78	North Bay Junction	Centram MDA	45.21377	1.4865	2.82621	0.0927
79	North Bay Junction	Centrat MDA	42.23020	1.3884	2.62398	0.0860
80	North Bay Junction	Union WDA	31.02622	1.0200	1.86457	0.0611
81	North Bay Junction	Nipigon WDA	26.42661	0.8688	1.55281	0.0509
82	North Bay Junction	Union NDA	8.25295	0.2713	0.32092	0.0105

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	North Bay Junction	Calstock NDA	18.42946	0.6059	1.01075	0.0331
2	North Bay Junction	Tunis NDA	12.13321	0.3989	0.58398	0.0192
3	North Bay Junction	GMIT NDA	7.45513	0.2451	0.26686	0.0088
4	North Bay Junction	Union SSMDA	32.93213	1.0827	1.99378	0.0654
5	North Bay Junction	Union NCDA	8.28398	0.2724	0.32304	0.0106
6	North Bay Junction	Union CDA	13.45877	0.4425	0.67381	0.0221
7	North Bay Junction	Union EDA	15.70413	0.5163	0.82599	0.0271
8	North Bay Junction	Enbridge CDA	12.57030	0.4133	0.61360	0.0201
9	North Bay Junction	Enbridge Parkway CDA	12.73394	0.4187	0.62467	0.0205
10	North Bay Junction	Enbridge EDA	13.97980	0.4596	0.70913	0.0233
11	North Bay Junction	KPUC EDA	17.21005	0.5658	0.92808	0.0304
12	North Bay Junction	GMIT EDA	19.35078	0.6362	1.07317	0.0352
13	North Bay Junction	Enbridge SWDA	18.21958	0.5990	0.99650	0.0327
14	North Bay Junction	Union SWDA	18.30627	0.6019	1.00239	0.0329
15	North Bay Junction	Chippawa	16.00069	0.5261	0.84609	0.0277
16	North Bay Junction	Cornwall	15.26339	0.5018	0.79613	0.0261
17	North Bay Junction	East Hereford	23.87648	0.7850	1.37994	0.0452
18	North Bay Junction	Emerson 1	45.66150	1.5012	2.85657	0.0937
19	North Bay Junction	Emerson 2	45.66150	1.5012	2.85657	0.0937
20	North Bay Junction	Iroquois	14.45978	0.4754	0.74166	0.0243
21	North Bay Junction	Kirkwall	13.65769	0.4490	0.68730	0.0225
22	North Bay Junction	Napierville	18.97818	0.6239	1.04793	0.0344
23	North Bay Junction	Niagara Falls	15.94259	0.5241	0.84217	0.0276
24	North Bay Junction	North Bay Junction	4.04238	0.1329	0.03553	0.0012
25	North Bay Junction	Philipsburg	19.40036	0.6378	1.07655	0.0353
26	North Bay Junction	Spruce	42.23020	1.3884	2.62398	0.0860
27	North Bay Junction	St. Clair	18.79568	0.6179	1.03556	0.0340
28	North Bay Junction	Welwyn	51.67548	1.6989	3.26421	0.1070
29	North Bay Junction	Dawn Export	18.21958	0.5990	0.99650	0.0327
30	North Bay Junction	Union Parkway Belt	12.73394	0.4187	0.62467	0.0205
31	North Bay Junction	Union CDA (Amended)	14.20915	0.4672	0.72468	0.0238
32	North Bay Junction	Union ECDA	13.01225	0.4278	0.64355	0.0211
33	Philipsburg	Empress	81.82023	2.6900	5.30751	0.1740
34	Philipsburg	TransGas SSDA	71.33104	2.3451	4.59652	0.1507
35	Philipsburg	Centram SSDA	67.03347	2.2038	4.30522	0.1412
36	Philipsburg	Centram MDA	60.57114	1.9914	3.86718	0.1268
37	Philipsburg	Centrat MDA	57.58848	1.8933	3.66501	0.1202
38	Philipsburg	Union WDA	46.38481	1.5250	2.90562	0.0953
39	Philipsburg	Nipigon WDA	41.78520	1.3738	2.59382	0.0850
40	Philipsburg	Union NDA	23.61185	0.7763	1.36201	0.0447
41	Philipsburg	Calstock NDA	33.78805	1.1108	2.05176	0.0673
42	Philipsburg	Tunis NDA	27.49180	0.9038	1.62500	0.0533
43	Philipsburg	GMIT NDA	22.81372	0.7500	1.30789	0.0429
44	Philipsburg	Union SSMDA	39.72417	1.3060	2.45412	0.0805
45	Philipsburg	Union NCDA	21.42580	0.7044	1.21385	0.0398
46	Philipsburg	Union CDA	20.24990	0.6658	1.13414	0.0372
47	Philipsburg	Union EDA	11.76638	0.3868	0.55909	0.0183
48	Philipsburg	Enbridge CDA	18.81028	0.6184	1.03653	0.0340
49	Philipsburg	Enbridge Parkway CDA	19.52568	0.6419	1.08502	0.0356
50	Philipsburg	Enbridge EDA	11.18816	0.3678	0.51988	0.0171
51	Philipsburg	KPUC EDA	12.17731	0.4004	0.58695	0.0192
52	Philipsburg	GMIT EDA	8.76152	0.2881	0.35541	0.0117
53	Philipsburg	Enbridge SWDA	25.01102	0.8223	1.45685	0.0478
54	Philipsburg	Union SWDA	25.09801	0.8251	1.46275	0.0480
55	Philipsburg	Chippawa	22.79182	0.7493	1.30643	0.0428
56	Philipsburg	Cornwall	8.17904	0.2689	0.31594	0.0104
57	Philipsburg	East Hereford	13.86970	0.4560	0.70167	0.0230
58	Philipsburg	Emerson 1	61.01948	2.0061	3.89758	0.1278
59	Philipsburg	Emerson 2	61.01948	2.0061	3.89758	0.1278
60	Philipsburg	Iroquois	9.42673	0.3099	0.40053	0.0131
61	Philipsburg	Kirkwall	20.44943	0.6723	1.14764	0.0376
62	Philipsburg	Napierville	6.26370	0.2059	0.18611	0.0061
63	Philipsburg	Niagara Falls	22.73433	0.7474	1.30252	0.0427
64	Philipsburg	North Bay Junction	19.40036	0.6378	1.07655	0.0353
65	Philipsburg	Philipsburg	4.04238	0.1329	0.03553	0.0012
66	Philipsburg	Spruce	57.58848	1.8933	3.66501	0.1202
67	Philipsburg	St. Clair	25.58741	0.8412	1.49590	0.0491
68	Philipsburg	Welwyn	67.03347	2.2038	4.30522	0.1412
69	Philipsburg	Dawn Export	25.01102	0.8223	1.45685	0.0478
70	Philipsburg	Union Parkway Belt	19.52568	0.6419	1.08502	0.0356
71	Philipsburg	Union CDA (Amended)	21.00088	0.6904	1.18504	0.0389
72	Philipsburg	Union ECDA	19.80368	0.6511	1.10387	0.0362
73	Richmound	Empress	2.85825	0.0940	0.03917	0.0013
74	Richmound	TransGas SSDA	10.10381	0.3322	0.74292	0.0244
75	Richmound	Centram SSDA	13.10198	0.4308	1.03418	0.0339
76	Richmound	Centram MDA	17.65444	0.5804	1.47637	0.0484
77	Richmound	Centrat MDA	19.69327	0.6475	1.67439	0.0549
78	Richmound	Union WDA	28.21298	0.9276	2.50191	0.0820
79	Richmound	Nipigon WDA	30.72144	1.0100	2.74558	0.0900
80	Richmound	Union NDA	43.41584	1.4274	3.97861	0.1305
81	Richmound	Calstock NDA	36.30229	1.1935	3.28762	0.1078
82	Richmound	Tunis NDA	40.69598	1.3380	3.71441	0.1218

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Richmound	GMIT NDA	44.31161	1.4568	4.06562	0.1333
2	Richmound	Union SSM DA	39.37498	1.2945	3.58613	0.1176
3	Richmound	Union NCDA	52.93899	1.7405	4.55037	0.1492
4	Richmound	Union CDA	54.54013	1.7931	4.69519	0.1539
5	Richmound	Union EDA	58.43528	1.9212	5.04755	0.1655
6	Richmound	Enbridge CDA	55.53080	1.8257	4.78479	0.1569
7	Richmound	Enbridge Parkway CDA	54.44644	1.7900	4.68669	0.1537
8	Richmound	Enbridge EDA	57.19428	1.8804	4.93527	0.1618
9	Richmound	KPUC EDA	59.62762	1.9604	5.15541	0.1690
10	Richmound	GMIT EDA	61.23149	2.0131	5.30050	0.1738
11	Richmound	Enbridge SWDA	50.33563	1.6549	4.31486	0.1415
12	Richmound	Union SWDA	50.27054	1.6527	4.30896	0.1413
13	Richmound	Chippawa	55.81489	1.8350	4.81052	0.1577
14	Richmound	Cornwall	58.16883	1.9124	5.02346	0.1647
15	Richmound	East Hereford	64.62295	2.1246	5.60725	0.1838
16	Richmound	Emerson 1	20.04975	0.6592	1.70899	0.0560
17	Richmound	Emerson 2	20.04975	0.6592	1.70899	0.0560
18	Richmound	Iroquois	57.56689	1.8926	4.96898	0.1629
19	Richmound	Kirkwall	53.75416	1.7673	4.62407	0.1516
20	Richmound	Napierville	60.95257	2.0039	5.27526	0.1730
21	Richmound	Niagara Falls	55.77170	1.8336	4.80660	0.1576
22	Richmound	North Bay Junction	46.34223	1.5236	4.26286	0.1398
23	Richmound	Philipsburg	61.26920	2.0143	5.30387	0.1739
24	Richmound	Spruce	19.69327	0.6475	1.67439	0.0549
25	Richmound	St. Clair	46.47545	1.5280	4.27580	0.1402
26	Richmound	Welwyn	13.10198	0.4308	1.03418	0.0339
27	Richmound	Dawn Export	50.33563	1.6549	4.31486	0.1415
28	Richmound	Union Parkway Belt	54.44644	1.7900	4.68669	0.1537
29	Richmound	Union CDA (Amended)	54.34850	1.7868	4.67785	0.1534
30	Richmound	Union ECDA	54.65480	1.7969	4.70553	0.1543
31	Sainte-Genevieve-de-Berthier	Empress	82.19040	2.7022	5.33259	0.1748
32	Sainte-Genevieve-de-Berthier	TransGas SSDA	71.70151	2.3573	4.62162	0.1515
33	Sainte-Genevieve-de-Berthier	Centram SSDA	67.40364	2.2160	4.33031	0.1420
34	Sainte-Genevieve-de-Berthier	Centram MDA	60.94040	2.0035	3.89221	0.1276
35	Sainte-Genevieve-de-Berthier	Centrat MDA	57.95835	1.9055	3.69008	0.1210
36	Sainte-Genevieve-de-Berthier	Union WDA	46.75468	1.5371	2.93068	0.0961
37	Sainte-Genevieve-de-Berthier	Nipigon WDA	42.15476	1.3859	2.61890	0.0859
38	Sainte-Genevieve-de-Berthier	Union NDA	23.98172	0.7884	1.38708	0.0455
39	Sainte-Genevieve-de-Berthier	Calstock NDA	34.15792	1.1230	2.07685	0.0681
40	Sainte-Genevieve-de-Berthier	Tunis NDA	27.86197	0.9160	1.65009	0.0541
41	Sainte-Genevieve-de-Berthier	GMIT NDA	23.18298	0.7622	1.33295	0.0437
42	Sainte-Genevieve-de-Berthier	Union SSM DA	40.09434	1.3182	2.47921	0.0813
43	Sainte-Genevieve-de-Berthier	Union NCDA	21.79628	0.7166	1.23894	0.0406
44	Sainte-Genevieve-de-Berthier	Union CDA	20.62007	0.6779	1.15923	0.0380
45	Sainte-Genevieve-de-Berthier	Union EDA	12.13716	0.3990	0.58423	0.0192
46	Sainte-Genevieve-de-Berthier	Enbridge CDA	19.17984	0.6306	1.06162	0.0348
47	Sainte-Genevieve-de-Berthier	Enbridge Parkway CDA	19.89524	0.6541	1.11009	0.0364
48	Sainte-Genevieve-de-Berthier	Enbridge EDA	11.55742	0.3800	0.54494	0.0179
49	Sainte-Genevieve-de-Berthier	KPUC EDA	12.54718	0.4125	0.61202	0.0201
50	Sainte-Genevieve-de-Berthier	GMIT EDA	7.10990	0.2338	0.24347	0.0080
51	Sainte-Genevieve-de-Berthier	Enbridge SWDA	25.38119	0.8345	1.48192	0.0486
52	Sainte-Genevieve-de-Berthier	Union SWDA	25.46757	0.8373	1.48781	0.0488
53	Sainte-Genevieve-de-Berthier	Chippawa	23.16168	0.7615	1.33151	0.0437
54	Sainte-Genevieve-de-Berthier	Cornwall	8.54921	0.2811	0.34102	0.0112
55	Sainte-Genevieve-de-Berthier	East Hereford	10.43444	0.3431	0.46882	0.0154
56	Sainte-Genevieve-de-Berthier	Emerson 1	61.38965	2.0183	3.92266	0.1286
57	Sainte-Genevieve-de-Berthier	Emerson 2	61.38965	2.0183	3.92266	0.1286
58	Sainte-Genevieve-de-Berthier	Iroquois	9.79721	0.3221	0.42560	0.0140
59	Sainte-Genevieve-de-Berthier	Kirkwall	20.81930	0.6845	1.17272	0.0385
60	Sainte-Genevieve-de-Berthier	Napierville	9.34187	0.3071	0.39476	0.0129
61	Sainte-Genevieve-de-Berthier	Niagara Falls	23.10389	0.7596	1.32759	0.0435
62	Sainte-Genevieve-de-Berthier	North Bay Junction	19.77053	0.6500	1.10164	0.0361
63	Sainte-Genevieve-de-Berthier	Philipsburg	9.76405	0.3210	0.42337	0.0139
64	Sainte-Genevieve-de-Berthier	Spruce	57.95835	1.9055	3.69008	0.1210
65	Sainte-Genevieve-de-Berthier	St. Clair	25.95698	0.8534	1.52098	0.0499
66	Sainte-Genevieve-de-Berthier	Welwyn	67.40364	2.2160	4.33031	0.1420
67	Sainte-Genevieve-de-Berthier	Dawn Export	25.38119	0.8345	1.48192	0.0486
68	Sainte-Genevieve-de-Berthier	Union Parkway Belt	19.89524	0.6541	1.11009	0.0364
69	Sainte-Genevieve-de-Berthier	Union CDA (Amended)	21.37045	0.7026	1.21010	0.0397
70	Sainte-Genevieve-de-Berthier	Union ECDA	20.17385	0.6633	1.12897	0.0370
71	Shackleton	Empress	4.38365	0.1441	0.18732	0.0061
72	Shackleton	TransGas SSDA	8.60092	0.2828	0.59699	0.0196
73	Shackleton	Centram SSDA	11.57689	0.3806	0.88603	0.0291
74	Shackleton	Centram MDA	16.13026	0.5303	1.32831	0.0436
75	Shackleton	Centrat MDA	18.16788	0.5973	1.52624	0.0500
76	Shackleton	Union WDA	26.68758	0.8774	2.35374	0.0772
77	Shackleton	Nipigon WDA	29.19605	0.9599	2.59743	0.0852
78	Shackleton	Union NDA	41.89075	1.3772	3.83047	0.1256
79	Shackleton	Calstock NDA	34.77690	1.1434	3.13947	0.1029
80	Shackleton	Tunis NDA	39.17058	1.2878	3.56625	0.1169
81	Shackleton	GMIT NDA	42.78652	1.4067	3.91746	0.1284
82	Shackleton	Union SSM DA	37.84989	1.2444	3.43798	0.1127

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Shackleton	Union NCDA	51.30136	1.6866	4.40221	0.1443
2	Shackleton	Union CDA	52.90219	1.7393	4.54704	0.1491
3	Shackleton	Union EDA	56.79643	1.8673	4.89930	0.1606
4	Shackleton	Enbridge CDA	53.89286	1.7718	4.63664	0.1520
5	Shackleton	Enbridge Parkway CDA	52.80850	1.7362	4.53853	0.1488
6	Shackleton	Enbridge EDA	55.55604	1.8265	4.78709	0.1570
7	Shackleton	KPUC EDA	57.98998	1.9065	5.00725	0.1642
8	Shackleton	GMIT EDA	59.59325	1.9592	5.15229	0.1689
9	Shackleton	Enbridge SWDA	48.69769	1.6010	4.16670	0.1366
10	Shackleton	Union SWDA	48.63260	1.5989	4.16080	0.1364
11	Shackleton	Chippawa	54.17756	1.7812	4.66237	0.1529
12	Shackleton	Cornwall	56.53150	1.8586	4.87531	0.1599
13	Shackleton	East Hereford	62.98501	2.0707	5.45909	0.1790
14	Shackleton	Emerson 1	18.52436	0.6090	1.56084	0.0512
15	Shackleton	Emerson 2	18.52436	0.6090	1.56084	0.0512
16	Shackleton	Iroquois	55.92895	1.8388	4.82083	0.1581
17	Shackleton	Kirkwall	52.11622	1.7134	4.47591	0.1468
18	Shackleton	Napierville	59.31463	1.9501	5.12710	0.1681
19	Shackleton	Niagara Falls	54.13406	1.7798	4.65845	0.1527
20	Shackleton	North Bay Junction	44.81713	1.4734	4.11470	0.1349
21	Shackleton	Philipsburg	59.63127	1.9605	5.15572	0.1690
22	Shackleton	Spruce	18.16788	0.5973	1.52624	0.0500
23	Shackleton	St. Clair	44.95036	1.4778	4.12765	0.1353
24	Shackleton	Welwyn	11.57689	0.3806	0.88603	0.0291
25	Shackleton	Dawn Export	48.69769	1.6010	4.16670	0.1366
26	Shackleton	Union Parkway Belt	52.80850	1.7362	4.53853	0.1488
27	Shackleton	Union CDA (Amended)	52.71056	1.7330	4.52968	0.1485
28	Shackleton	Union ECDA	53.01686	1.7430	4.55738	0.1494
29	Spruce	Empress	-	0.6487	-	0.0550
30	Spruce	TransGas SSDA	-	0.4080	-	0.0317
31	Spruce	Centram SSDA	-	0.3094	-	0.0222
32	Spruce	Centram MDA	-	0.1612	-	0.0078
33	Spruce	Centrat MDA	-	0.0927	-	0.0012
34	Spruce	Union WDA	-	0.3728	-	0.0283
35	Spruce	Nipigon WDA	-	0.4553	-	0.0363
36	Spruce	Union NDA	-	0.8727	-	0.0767
37	Spruce	Calstock NDA	-	0.6388	-	0.0541
38	Spruce	Tunis NDA	-	0.7832	-	0.0681
39	Spruce	GMIT NDA	-	0.9021	-	0.0796
40	Spruce	Union SSMDA	-	0.8068	-	0.0703
41	Spruce	Union NCDA	-	1.1448	-	0.0955
42	Spruce	Union CDA	-	1.2620	-	0.1060
43	Spruce	Union EDA	-	1.3276	-	0.1120
44	Spruce	Enbridge CDA	-	1.2462	-	0.1046
45	Spruce	Enbridge Parkway CDA	-	1.2545	-	0.1054
46	Spruce	Enbridge EDA	-	1.2851	-	0.1081
47	Spruce	KPUC EDA	-	1.3647	-	0.1153
48	Spruce	GMIT EDA	-	1.4174	-	0.1201
49	Spruce	Enbridge SWDA	-	1.1312	-	0.0942
50	Spruce	Union SWDA	-	1.1291	-	0.0940
51	Spruce	Chippawa	-	1.3113	-	0.1105
52	Spruce	Cornwall	-	1.3168	-	0.1110
53	Spruce	East Hereford	-	1.5289	-	0.1301
54	Spruce	Emerson 1	-	0.1715	-	0.0088
55	Spruce	Emerson 2	-	0.1715	-	0.0088
56	Spruce	Iroquois	-	1.2970	-	0.1092
57	Spruce	Kirkwall	-	1.2436	-	0.1044
58	Spruce	Napierville	-	1.4083	-	0.1192
59	Spruce	Niagara Falls	-	1.3099	-	0.1104
60	Spruce	North Bay Junction	-	0.9689	-	0.0860
61	Spruce	Philipsburg	-	1.4187	-	0.1202
62	Spruce	Spruce	-	0.0927	-	0.0012
63	Spruce	St. Clair	-	1.0403	-	0.0930
64	Spruce	Welwyn	-	0.3094	-	0.0222
65	Spruce	Dawn Export	-	1.1312	-	0.0942
66	Spruce	Union Parkway Belt	-	1.2545	-	0.1054
67	Spruce	Union CDA (Amended)	-	1.2631	-	0.1061
68	Spruce	Union ECDA	-	1.2613	-	0.1060
69	SS. Marie	Empress	39.23050	1.2898	3.57207	0.1171
70	SS. Marie	TransGas SSDA	31.91043	1.0491	2.86106	0.0938
71	SS. Marie	Centram SSDA	28.91165	0.9505	2.56978	0.0843
72	SS. Marie	Centram MDA	24.37500	0.8014	2.12915	0.0698
73	SS. Marie	Centrat MDA	24.35858	0.8008	2.12754	0.0698
74	SS. Marie	Union WDA	32.84027	1.0797	2.95138	0.0968
75	SS. Marie	Nipigon WDA	35.38675	1.1634	3.19873	0.1049
76	SS. Marie	Union NDA	25.72520	0.8458	2.26029	0.0741
77	SS. Marie	Calstock NDA	32.83935	1.0797	2.95129	0.0968
78	SS. Marie	Tunis NDA	28.44597	0.9352	2.52453	0.0828
79	SS. Marie	GMIT NDA	25.18074	0.8279	2.20741	0.0724
80	SS. Marie	Union SSMDA	3.00304	0.0987	0.05323	0.0018
81	SS. Marie	Union NCDA	21.30292	0.7004	1.68859	0.0554
82	SS. Marie	Union CDA	18.06263	0.5938	1.39546	0.0458

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	SS. Marie	Union EDA	23.81260	0.7829	1.91560	0.0628
2	SS. Marie	Enbridge CDA	19.28751	0.6341	1.50626	0.0494
3	SS. Marie	Enbridge Parkway CDA	17.96834	0.5907	1.38693	0.0455
4	SS. Marie	Enbridge EDA	26.30312	0.8648	2.14090	0.0702
5	SS. Marie	KPUC EDA	23.47437	0.7718	1.88501	0.0618
6	SS. Marie	GMIT EDA	29.53245	0.9709	2.43301	0.0798
7	SS. Marie	Enbridge SWDA	13.85783	0.4556	1.01510	0.0333
8	SS. Marie	Union SWDA	13.79305	0.4535	1.00922	0.0331
9	SS. Marie	Chippawa	19.33740	0.6358	1.51077	0.0495
10	SS. Marie	Cornwall	26.47010	0.8703	2.15599	0.0707
11	SS. Marie	East Hereford	32.92361	1.0824	2.73980	0.0898
12	SS. Marie	Emerson 1	21.96418	0.7221	1.89497	0.0621
13	SS. Marie	Emerson 2	21.96418	0.7221	1.89497	0.0621
14	SS. Marie	Iroquois	25.89858	0.8515	2.10430	0.0690
15	SS. Marie	Kirkwall	17.27606	0.5680	1.32431	0.0434
16	SS. Marie	Napierville	29.25353	0.9618	2.40779	0.0789
17	SS. Marie	Niagara Falls	19.29390	0.6343	1.50685	0.0494
18	SS. Marie	North Bay Junction	22.79912	0.7496	1.97608	0.0648
19	SS. Marie	Philipsburg	29.56987	0.9722	2.43641	0.0799
20	SS. Marie	Spruce	24.35858	0.8008	2.12754	0.0698
21	SS. Marie	St. Clair	12.50368	0.4111	0.97605	0.0320
22	SS. Marie	Welwyn	28.91165	0.9505	2.56978	0.0843
23	SS. Marie	Dawn Export	13.85783	0.4556	1.01510	0.0333
24	SS. Marie	Union Parkway Belt	17.96834	0.5907	1.38693	0.0455
25	SS. Marie	Union CDA (Amended)	17.87040	0.5875	1.37808	0.0452
26	SS. Marie	Union ECDA	18.17670	0.5976	1.40580	0.0461
27	St. Clair	Empress	66.65326	2.1913	4.27944	0.1403
28	St. Clair	TransGas SSDA	56.16285	1.8465	3.56840	0.1170
29	St. Clair	Centram SSDA	51.86650	1.7052	3.27715	0.1075
30	St. Clair	Centram MDA	45.36494	1.4915	2.83649	0.0930
31	St. Clair	Centrat MDA	45.34182	1.4907	2.83492	0.0930
32	St. Clair	Union WDA	45.34456	1.4908	2.83511	0.0930
33	St. Clair	Nipigon WDA	41.18021	1.3539	2.55283	0.0837
34	St. Clair	Union NDA	22.98922	0.7558	1.31981	0.0433
35	St. Clair	Calstock NDA	33.18337	1.0910	2.01077	0.0659
36	St. Clair	Tunis NDA	26.88712	0.8840	1.58401	0.0519
37	St. Clair	GMIT NDA	22.20843	0.7301	1.26689	0.0415
38	St. Clair	Union SSMDA	18.17883	0.5977	0.99377	0.0326
39	St. Clair	Union NCDA	14.55438	0.4785	0.74805	0.0245
40	St. Clair	Union CDA	10.23034	0.3363	0.45497	0.0149
41	St. Clair	Union EDA	17.90325	0.5886	0.97508	0.0320
42	St. Clair	Enbridge EDA	21.22688	0.6979	1.20033	0.0394
43	St. Clair	Enbridge CDA	11.86433	0.3901	0.56574	0.0186
44	St. Clair	Enbridge Parkway CDA	10.10381	0.3322	0.44641	0.0146
45	St. Clair	KPUC EDA	17.45217	0.5738	0.94449	0.0310
46	St. Clair	GMIT EDA	25.53662	0.8396	1.49248	0.0489
47	St. Clair	Enbridge SWDA	4.61816	0.1518	0.07458	0.0025
48	St. Clair	Union SWDA	4.53117	0.1490	0.06868	0.0023
49	St. Clair	Chippawa	11.93094	0.3923	0.57025	0.0187
50	St. Clair	Cornwall	21.45044	0.7052	1.21549	0.0399
51	St. Clair	East Hereford	30.06323	0.9884	1.79928	0.0590
52	St. Clair	Emerson 1	41.91082	1.3779	2.60234	0.0853
53	St. Clair	Emerson 2	41.91082	1.3779	2.60234	0.0853
54	St. Clair	Iroquois	20.42601	0.6715	1.14607	0.0376
55	St. Clair	Kirkwall	9.18005	0.3018	0.38379	0.0126
56	St. Clair	Napierville	25.16493	0.8273	1.46729	0.0481
57	St. Clair	Niagara Falls	11.87315	0.3904	0.56633	0.0186
58	St. Clair	North Bay Junction	18.79568	0.6179	1.03556	0.0340
59	St. Clair	Philipsburg	25.58741	0.8412	1.49590	0.0491
60	St. Clair	Spruce	45.34182	1.4907	2.83492	0.0930
61	St. Clair	St. Clair	4.04238	0.1329	0.03553	0.0012
62	St. Clair	Welwyn	51.86650	1.7052	3.27715	0.1075
63	St. Clair	Dawn Export	4.61816	0.1518	0.07458	0.0025
64	St. Clair	Union Parkway Belt	10.10381	0.3322	0.44641	0.0146
65	St. Clair	Union CDA (Amended)	9.97332	0.3279	0.43756	0.0144
66	St. Clair	Union ECDA	10.38243	0.3413	0.46528	0.0153
67	Steelman	Empress	9.29868	0.3057	0.66475	0.0218
68	Steelman	TransGas SSDA	3.85166	0.1266	0.13565	0.0045
69	Steelman	Centram SSDA	6.66155	0.2190	0.40860	0.0134
70	Steelman	Centram MDA	11.21493	0.3687	0.85089	0.0279
71	Steelman	Centrat MDA	13.25315	0.4357	1.04883	0.0344
72	Steelman	Union WDA	21.77225	0.7158	1.87634	0.0615
73	Steelman	Nipigon WDA	24.28102	0.7983	2.12000	0.0695
74	Steelman	Union NDA	36.97602	1.2157	3.35308	0.1099
75	Steelman	Calstock NDA	29.86156	0.9818	2.66206	0.0873
76	Steelman	Tunis NDA	34.25555	1.1262	3.08883	0.1013
77	Steelman	GMIT NDA	37.87149	1.2451	3.44006	0.1128
78	Steelman	Union SSMDA	32.93486	1.0828	2.96057	0.0971
79	Steelman	Union NCDA	46.02346	1.5131	3.92479	0.1287
80	Steelman	Union CDA	47.62490	1.5658	4.06965	0.1334
81	Steelman	Union EDA	51.51945	1.6938	4.42194	0.1450
82	Steelman	Enbridge CDA	48.61526	1.5983	4.15921	0.1364



Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Steelman	Enbridge Parkway CDA	47.53060	1.5627	4.06111	0.1332
2	Steelman	Enbridge EDA	50.27845	1.6530	4.30968	0.1413
3	Steelman	KPUC EDA	52.71208	1.7330	4.52983	0.1485
4	Steelman	GMIT EDA	54.31565	1.7857	4.67489	0.1533
5	Steelman	Enbridge SWDA	43.42010	1.4275	3.68928	0.1210
6	Steelman	Union SWDA	43.35500	1.4254	3.68340	0.1208
7	Steelman	Chippawa	48.89935	1.6077	4.18494	0.1372
8	Steelman	Cornwall	51.25330	1.6850	4.39788	0.1442
9	Steelman	East Hereford	57.70741	1.8972	4.98169	0.1633
10	Steelman	Emerson 1	13.60933	0.4474	1.08341	0.0355
11	Steelman	Emerson 2	13.60933	0.4474	1.08341	0.0355
12	Steelman	Iroquois	50.65135	1.6653	4.34341	0.1424
13	Steelman	Kirkwall	46.83832	1.5399	3.99849	0.1311
14	Steelman	Napierville	54.03703	1.7766	4.64968	0.1525
15	Steelman	Niagara Falls	48.85616	1.6062	4.18103	0.1371
16	Steelman	North Bay Junction	39.90180	1.3118	3.63728	0.1193
17	Steelman	Philipsburg	54.35337	1.7870	4.67830	0.1534
18	Steelman	Spruce	13.25315	0.4357	1.04883	0.0344
19	Steelman	St. Clair	40.03503	1.3162	3.65023	0.1197
20	Steelman	Welwyn	6.66155	0.2190	0.40860	0.0134
21	Steelman	Dawn Export	43.42010	1.4275	3.68928	0.1210
22	Steelman	Union Parkway Belt	47.53060	1.5627	4.06111	0.1332
23	Steelman	Union CDA (Amended)	47.43266	1.5594	4.05226	0.1329
24	Steelman	Union ECDA	47.73957	1.5695	4.07999	0.1338
25	Success	Empress	5.10726	0.1679	0.25760	0.0085
26	Success	TransGas SSDA	7.89860	0.2597	0.52875	0.0173
27	Success	Centram SSDA	10.85328	0.3568	0.81575	0.0268
28	Success	Centram MDA	15.40604	0.5065	1.25797	0.0412
29	Success	Centrat MDA	17.44457	0.5735	1.45596	0.0477
30	Success	Union WDA	25.96428	0.8536	2.28350	0.0749
31	Success	Nipigon WDA	28.47274	0.9361	2.52715	0.0829
32	Success	Union NDA	41.16744	1.3535	3.76020	0.1233
33	Success	Calstock NDA	34.05328	1.1196	3.06920	0.1006
34	Success	Tunis NDA	38.44697	1.2640	3.49596	0.1146
35	Success	GMIT NDA	42.06290	1.3829	3.84719	0.1261
36	Success	Union SSMDA	37.12628	1.2206	3.36770	0.1104
37	Success	Union NCDA	50.52421	1.6611	4.33192	0.1420
38	Success	Union CDA	52.12565	1.7137	4.47678	0.1468
39	Success	Union EDA	56.01929	1.8417	4.82899	0.1583
40	Success	Enbridge CDA	53.11602	1.7463	4.56634	0.1497
41	Success	Enbridge Parkway CDA	52.03136	1.7106	4.46824	0.1465
42	Success	Enbridge EDA	54.77950	1.8010	4.71683	0.1547
43	Success	KPUC EDA	57.21314	1.8810	4.93698	0.1619
44	Success	GMIT EDA	58.81580	1.9337	5.08197	0.1666
45	Success	Enbridge SWDA	47.92085	1.5755	4.09641	0.1343
46	Success	Union SWDA	47.85576	1.5733	4.09051	0.1341
47	Success	Chippawa	53.40041	1.7556	4.59209	0.1506
48	Success	Cornwall	55.75436	1.8330	4.80503	0.1575
49	Success	East Hereford	62.20786	2.0452	5.38882	0.1767
50	Success	Emerson 1	17.80075	0.5852	1.49056	0.0489
51	Success	Emerson 2	17.80075	0.5852	1.49056	0.0489
52	Success	Iroquois	55.15211	1.8132	4.75055	0.1558
53	Success	Kirkwall	51.33908	1.6879	4.40562	0.1445
54	Success	Napierville	58.53809	1.9245	5.05683	0.1658
55	Success	Niagara Falls	53.35722	1.7542	4.58817	0.1504
56	Success	North Bay Junction	44.09352	1.4497	4.04441	0.1326
57	Success	Philipsburg	58.85412	1.9349	5.08544	0.1667
58	Success	Spruce	17.44457	0.5735	1.45596	0.0477
59	Success	St. Clair	44.22675	1.4540	4.05737	0.1330
60	Success	Welwyn	10.85328	0.3568	0.81575	0.0268
61	Success	Dawn Export	47.92085	1.5755	4.09641	0.1343
62	Success	Union Parkway Belt	52.03136	1.7106	4.46824	0.1465
63	Success	Union CDA (Amended)	51.93372	1.7074	4.45941	0.1462
64	Success	Union ECDA	52.23971	1.7175	4.48710	0.1471
65	Suffield 2	Empress	2.85521	0.0939	0.03886	0.0013
66	Suffield 2	TransGas SSDA	10.10655	0.3323	0.74321	0.0244
67	Suffield 2	Centram SSDA	13.10533	0.4309	1.03449	0.0339
68	Suffield 2	Centram MDA	17.65779	0.5805	1.47668	0.0484
69	Suffield 2	Centrat MDA	19.69662	0.6476	1.67470	0.0549
70	Suffield 2	Union WDA	28.21602	0.9277	2.50222	0.0820
71	Suffield 2	Nipigon WDA	30.72479	1.0101	2.74589	0.0900
72	Suffield 2	Union NDA	43.41949	1.4275	3.97895	0.1305
73	Suffield 2	Calstock NDA	36.30503	1.1936	3.28794	0.1078
74	Suffield 2	Tunis NDA	40.69902	1.3381	3.71470	0.1218
75	Suffield 2	GMIT NDA	44.31495	1.4569	4.06593	0.1333
76	Suffield 2	Union SSMDA	39.37833	1.2946	3.58644	0.1176
77	Suffield 2	Union NCDA	52.94264	1.7406	4.55069	0.1492
78	Suffield 2	Union CDA	54.54378	1.7932	4.69550	0.1540
79	Suffield 2	Union EDA	58.43833	1.9213	5.04781	0.1655
80	Suffield 2	Enbridge CDA	55.53414	1.8258	4.78510	0.1569
81	Suffield 2	Enbridge Parkway CDA	54.44948	1.7901	4.68698	0.1537
82	Suffield 2	Enbridge EDA	57.19793	1.8805	4.93560	0.1618

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Suffield 2	KPUC EDA	59.63127	1.9605	5.15572	0.1690
2	Suffield 2	GMIT EDA	61.23483	2.0132	5.30076	0.1738
3	Suffield 2	Enbridge SWDA	50.33898	1.6550	4.31515	0.1415
4	Suffield 2	Union SWDA	50.27419	1.6529	4.30927	0.1413
5	Suffield 2	Chippawa	55.81854	1.8351	4.81083	0.1577
6	Suffield 2	Cornwall	58.17248	1.9125	5.02377	0.1647
7	Suffield 2	East Hereford	64.62599	2.1247	5.60756	0.1839
8	Suffield 2	Emerson 1	20.05249	0.6593	1.70930	0.0560
9	Suffield 2	Emerson 2	20.05249	0.6593	1.70930	0.0560
10	Suffield 2	Iroquois	57.57023	1.8927	4.96930	0.1629
11	Suffield 2	Kirkwall	53.75720	1.7674	4.62436	0.1516
12	Suffield 2	Napierville	60.95622	2.0040	5.27557	0.1730
13	Suffield 2	Niagara Falls	55.77535	1.8337	4.80692	0.1576
14	Suffield 2	North Bay Junction	46.34557	1.5237	4.26315	0.1398
15	Suffield 2	Philipsburg	61.27255	2.0144	5.30418	0.1739
16	Suffield 2	Spruce	19.69662	0.6476	1.67470	0.0549
17	Suffield 2	St. Clair	46.47880	1.5281	4.27612	0.1402
18	Suffield 2	Welwyn	13.10533	0.4309	1.03449	0.0339
19	Suffield 2	Dawn Export	50.33898	1.6550	4.31515	0.1415
20	Suffield 2	Union Parkway Belt	54.44948	1.7901	4.68698	0.1537
21	Suffield 2	Union CDA (Amended)	54.35185	1.7869	4.67815	0.1534
22	Suffield 2	Union ECDA	54.65784	1.7970	4.70585	0.1543
23	TransGas SSDA	Empress	-	0.3334	-	0.0245
24	TransGas SSDA	TransGas SSDA	-	0.0927	-	0.0012
25	TransGas SSDA	Centram SSDA	-	0.1913	-	0.0107
26	TransGas SSDA	Centram MDA	-	0.3410	-	0.0252
27	TransGas SSDA	Centrat MDA	-	0.4080	-	0.0317
28	TransGas SSDA	Union WDA	-	0.6881	-	0.0588
29	TransGas SSDA	Nipigon WDA	-	0.7706	-	0.0668
30	TransGas SSDA	Union NDA	-	1.1879	-	0.1073
31	TransGas SSDA	Calstock NDA	-	0.9541	-	0.0846
32	TransGas SSDA	Tunis NDA	-	1.0985	-	0.0986
33	TransGas SSDA	GMIT NDA	-	1.2174	-	0.1101
34	TransGas SSDA	Union SSM DA	-	1.0551	-	0.0944
35	TransGas SSDA	Union NCDA	-	1.4834	-	0.1260
36	TransGas SSDA	Union CDA	-	1.5360	-	0.1308
37	TransGas SSDA	Union EDA	-	1.6641	-	0.1423
38	TransGas SSDA	Enbridge CDA	-	1.5685	-	0.1337
39	TransGas SSDA	Enbridge Parkway CDA	-	1.5329	-	0.1305
40	TransGas SSDA	Enbridge EDA	-	1.6233	-	0.1386
41	TransGas SSDA	KPUC EDA	-	1.7033	-	0.1458
42	TransGas SSDA	GMIT EDA	-	1.7559	-	0.1506
43	TransGas SSDA	Enbridge SWDA	-	1.3978	-	0.1183
44	TransGas SSDA	Union SWDA	-	1.3957	-	0.1181
45	TransGas SSDA	Chippawa	-	1.5779	-	0.1345
46	TransGas SSDA	Cornwall	-	1.6553	-	0.1415
47	TransGas SSDA	East Hereford	-	1.8675	-	0.1607
48	TransGas SSDA	Emerson 1	-	0.4197	-	0.0328
49	TransGas SSDA	Emerson 2	-	0.4197	-	0.0328
50	TransGas SSDA	Iroquois	-	1.6355	-	0.1397
51	TransGas SSDA	Kirkwall	-	1.5102	-	0.1284
52	TransGas SSDA	Napierville	-	1.7468	-	0.1498
53	TransGas SSDA	Niagara Falls	-	1.5765	-	0.1344
54	TransGas SSDA	North Bay Junction	-	1.2842	-	0.1166
55	TransGas SSDA	Philipsburg	-	1.7572	-	0.1507
56	TransGas SSDA	Spruce	-	0.4080	-	0.0317
57	TransGas SSDA	St. Clair	-	1.2885	-	0.1170
58	TransGas SSDA	Welwyn	-	0.1913	-	0.0107
59	TransGas SSDA	Dawn Export	-	1.3978	-	0.1183
60	TransGas SSDA	Union Parkway Belt	-	1.5329	-	0.1305
61	TransGas SSDA	Union CDA (Amended)	-	1.5297	-	0.1302
62	TransGas SSDA	Union ECDA	-	1.5398	-	0.1311
63	Tunis NDA	Empress	-	1.3392	-	0.1219
64	Tunis NDA	TransGas SSDA	-	1.0985	-	0.0986
65	Tunis NDA	Centram SSDA	-	0.9999	-	0.0890
66	Tunis NDA	Centram MDA	-	0.8517	-	0.0747
67	Tunis NDA	Centrat MDA	-	0.7832	-	0.0681
68	Tunis NDA	Union WDA	-	0.5262	-	0.0432
69	Tunis NDA	Nipigon WDA	-	0.4207	-	0.0329
70	Tunis NDA	Union NDA	-	0.1989	-	0.0115
71	Tunis NDA	Calstock NDA	-	0.2372	-	0.0152
72	Tunis NDA	Tunis NDA	-	0.0927	-	0.0012
73	Tunis NDA	GMIT NDA	-	0.2116	-	0.0127
74	Tunis NDA	Union SSM DA	-	0.9412	-	0.0834
75	Tunis NDA	Union NCDA	-	0.4034	-	0.0286
76	Tunis NDA	Union CDA	-	0.5309	-	0.0401
77	Tunis NDA	Union EDA	-	0.5862	-	0.0451
78	Tunis NDA	Enbridge CDA	-	0.5089	-	0.0381
79	Tunis NDA	Enbridge Parkway CDA	-	0.5130	-	0.0385
80	Tunis NDA	Enbridge EDA	-	0.5437	-	0.0412
81	Tunis NDA	KPUC EDA	-	0.6233	-	0.0484
82	Tunis NDA	GMIT EDA	-	0.6760	-	0.0532

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Tunis NDA	Enbridge SWDA	-	0.6482	-	0.0507
2	Tunis NDA	Union SWDA	-	0.6503	-	0.0509
3	Tunis NDA	Chippawa	-	0.5935	-	0.0457
4	Tunis NDA	Cornwall	-	0.5754	-	0.0441
5	Tunis NDA	East Hereford	-	0.7875	-	0.0632
6	Tunis NDA	Emerson 1	-	0.8620	-	0.0757
7	Tunis NDA	Emerson 2	-	0.8620	-	0.0757
8	Tunis NDA	Iroquois	-	0.5556	-	0.0423
9	Tunis NDA	Kirkwall	-	0.5358	-	0.0405
10	Tunis NDA	Napierville	-	0.6669	-	0.0523
11	Tunis NDA	Niagara Falls	-	0.5921	-	0.0456
12	Tunis NDA	North Bay Junction	-	0.2784	-	0.0192
13	Tunis NDA	Philipsburg	-	0.6773	-	0.0533
14	Tunis NDA	Spruce	-	0.7832	-	0.0681
15	Tunis NDA	St. Clair	-	0.6169	-	0.0519
16	Tunis NDA	Welwyn	-	0.9999	-	0.0890
17	Tunis NDA	Dawn Export	-	0.6482	-	0.0507
18	Tunis NDA	Union Parkway Belt	-	0.5130	-	0.0385
19	Tunis NDA	Union CDA (Amended)	-	0.5494	-	0.0417
20	Tunis NDA	Union ECDA	-	0.5199	-	0.0391
21	Union CDA	Empress	-	2.3948	-	0.1541
22	Union CDA	TransGas SSDA	-	2.0499	-	0.1308
23	Union CDA	Centram SSDA	-	1.9086	-	0.1212
24	Union CDA	Centram MDA	-	1.6949	-	0.1068
25	Union CDA	Centrat MDA	-	1.6842	-	0.1060
26	Union CDA	Union WDA	-	1.3296	-	0.0821
27	Union CDA	Nipigon WDA	-	1.1784	-	0.0718
28	Union CDA	Union NDA	-	0.5804	-	0.0314
29	Union CDA	Calstock NDA	-	0.9155	-	0.0541
30	Union CDA	Tunis NDA	-	0.7085	-	0.0401
31	Union CDA	GMIT NDA	-	0.5547	-	0.0297
32	Union CDA	Union SSMDA	-	0.8011	-	0.0463
33	Union CDA	Union NCDA	-	0.3030	-	0.0127
34	Union CDA	Union CDA	-	0.1329	-	0.0012
35	Union CDA	Union EDA	-	0.4131	-	0.0201
36	Union CDA	Enbridge CDA	-	0.2148	-	0.0067
37	Union CDA	Enbridge Parkway CDA	-	0.1567	-	0.0028
38	Union CDA	Enbridge EDA	-	0.5224	-	0.0275
39	Union CDA	KPUC EDA	-	0.3983	-	0.0191
40	Union CDA	GMIT EDA	-	0.6641	-	0.0371
41	Union CDA	Enbridge SWDA	-	0.3174	-	0.0136
42	Union CDA	Union SWDA	-	0.3202	-	0.0138
43	Union CDA	Chippawa	-	0.2185	-	0.0070
44	Union CDA	Cornwall	-	0.5298	-	0.0280
45	Union CDA	East Hereford	-	0.8129	-	0.0471
46	Union CDA	Emerson 1	-	1.5813	-	0.0991
47	Union CDA	Emerson 2	-	1.5813	-	0.0991
48	Union CDA	Iroquois	-	0.4961	-	0.0257
49	Union CDA	Kirkwall	-	0.1674	-	0.0035
50	Union CDA	Napierville	-	0.6519	-	0.0363
51	Union CDA	Niagara Falls	-	0.2166	-	0.0068
52	Union CDA	North Bay Junction	-	0.4425	-	0.0221
53	Union CDA	Philipsburg	-	0.6658	-	0.0372
54	Union CDA	Spruce	-	1.6842	-	0.1060
55	Union CDA	St. Clair	-	0.3363	-	0.0149
56	Union CDA	Welwyn	-	1.9086	-	0.1212
57	Union CDA	Dawn Export	-	0.3174	-	0.0136
58	Union CDA	Union Parkway Belt	-	0.1567	-	0.0028
59	Union CDA	Union CDA (Amended)	-	0.1614	-	0.0031
60	Union CDA	Union ECDA	-	0.1488	-	0.0022
61	Union CDA (Amended)	Empress	-	2.3863	-	0.1535
62	Union CDA (Amended)	TransGas SSDA	-	2.0415	-	0.1302
63	Union CDA (Amended)	Centram SSDA	-	1.9002	-	0.1206
64	Union CDA (Amended)	Centram MDA	-	1.6865	-	0.1062
65	Union CDA (Amended)	Centrat MDA	-	1.6857	-	0.1061
66	Union CDA (Amended)	Union WDA	-	1.3543	-	0.0837
67	Union CDA (Amended)	Nipigon WDA	-	1.2031	-	0.0735
68	Union CDA (Amended)	Union NDA	-	0.6051	-	0.0331
69	Union CDA (Amended)	Calstock NDA	-	0.9402	-	0.0557
70	Union CDA (Amended)	Tunis NDA	-	0.7332	-	0.0417
71	Union CDA (Amended)	GMIT NDA	-	0.5794	-	0.0313
72	Union CDA (Amended)	Union SSMDA	-	0.7927	-	0.0458
73	Union CDA (Amended)	Union NCDA	-	0.3277	-	0.0143
74	Union CDA (Amended)	Union CDA	-	0.1614	-	0.0031
75	Union CDA (Amended)	Union EDA	-	0.4378	-	0.0218
76	Union CDA (Amended)	Enbridge CDA	-	0.2313	-	0.0078
77	Union CDA (Amended)	Enbridge Parkway CDA	-	0.1814	-	0.0044
78	Union CDA (Amended)	Enbridge EDA	-	0.5471	-	0.0292
79	Union CDA (Amended)	KPUC EDA	-	0.4230	-	0.0208
80	Union CDA (Amended)	GMIT EDA	-	0.6888	-	0.0387
81	Union CDA (Amended)	Enbridge SWDA	-	0.3090	-	0.0131
82	Union CDA (Amended)	Union SWDA	-	0.3118	-	0.0133



Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Union CDA (Amended)	Chippawa	-	0.1972	-	0.0055
2	Union CDA (Amended)	Cornwall	-	0.5544	-	0.0297
3	Union CDA (Amended)	East Hereford	-	0.8376	-	0.0488
4	Union CDA (Amended)	Emerson 1	-	1.5729	-	0.0985
5	Union CDA (Amended)	Emerson 2	-	1.5729	-	0.0985
6	Union CDA (Amended)	Iroquois	-	0.5208	-	0.0274
7	Union CDA (Amended)	Kirkwall	-	0.1590	-	0.0029
8	Union CDA (Amended)	Napierville	-	0.6766	-	0.0379
9	Union CDA (Amended)	Niagara Falls	-	0.1954	-	0.0054
10	Union CDA (Amended)	North Bay Junction	-	0.4672	-	0.0238
11	Union CDA (Amended)	Philipsburg	-	0.6904	-	0.0389
12	Union CDA (Amended)	Spruce	-	1.6857	-	0.1061
13	Union CDA (Amended)	St. Clair	-	0.3279	-	0.0144
14	Union CDA (Amended)	Welwyn	-	1.9002	-	0.1206
15	Union CDA (Amended)	Dawn Export	-	0.3090	-	0.0131
16	Union CDA (Amended)	Union Parkway Belt	-	0.1814	-	0.0044
17	Union CDA (Amended)	Union CDA (Amended)	-	0.1329	-	0.0012
18	Union CDA (Amended)	Union ECDA	-	0.1753	-	0.0040
19	Union ECDA	Empress	-	2.3998	-	0.1544
20	Union ECDA	TransGas SSDA	-	2.0549	-	0.1311
21	Union ECDA	Centram SSDA	-	1.9136	-	0.1215
22	Union ECDA	Centram MDA	-	1.6999	-	0.1071
23	Union ECDA	Centrat MDA	-	1.6833	-	0.1060
24	Union ECDA	Union WDA	-	1.3150	-	0.0811
25	Union ECDA	Nipigon WDA	-	1.1637	-	0.0709
26	Union ECDA	Union NDA	-	0.5656	-	0.0304
27	Union ECDA	Calstock NDA	-	0.9008	-	0.0531
28	Union ECDA	Tunis NDA	-	0.6938	-	0.0391
29	Union ECDA	GMIT NDA	-	0.5400	-	0.0287
30	Union ECDA	Union SSM DA	-	0.8061	-	0.0467
31	Union ECDA	Union NCDA	-	0.2883	-	0.0117
32	Union ECDA	Union CDA	-	0.1488	-	0.0022
33	Union ECDA	Union EDA	-	0.3985	-	0.0191
34	Union ECDA	Enbridge CDA	-	0.2050	-	0.0060
35	Union ECDA	Enbridge Parkway CDA	-	0.1421	-	0.0018
36	Union ECDA	Enbridge EDA	-	0.5077	-	0.0265
37	Union ECDA	KPUC EDA	-	0.3836	-	0.0181
38	Union ECDA	GMIT EDA	-	0.6494	-	0.0361
39	Union ECDA	Enbridge SWDA	-	0.3224	-	0.0140
40	Union ECDA	Union SWDA	-	0.3253	-	0.0142
41	Union ECDA	Chippawa	-	0.2311	-	0.0078
42	Union ECDA	Cornwall	-	0.5151	-	0.0270
43	Union ECDA	East Hereford	-	0.7982	-	0.0461
44	Union ECDA	Emerson 1	-	1.5863	-	0.0994
45	Union ECDA	Emerson 2	-	1.5863	-	0.0994
46	Union ECDA	Iroquois	-	0.4814	-	0.0247
47	Union ECDA	Kirkwall	-	0.1724	-	0.0038
48	Union ECDA	Napierville	-	0.6372	-	0.0353
49	Union ECDA	Niagara Falls	-	0.2292	-	0.0077
50	Union ECDA	North Bay Junction	-	0.4278	-	0.0211
51	Union ECDA	Philipsburg	-	0.6511	-	0.0362
52	Union ECDA	Spruce	-	1.6833	-	0.1060
53	Union ECDA	St. Clair	-	0.3413	-	0.0153
54	Union ECDA	Welwyn	-	1.9136	-	0.1215
55	Union ECDA	Dawn Export	-	0.3224	-	0.0140
56	Union ECDA	Union Parkway Belt	-	0.1421	-	0.0018
57	Union ECDA	Union CDA (Amended)	-	0.1753	-	0.0040
58	Union ECDA	Union ECDA	-	0.1329	-	0.0012
59	Union Dawn	Empress	67.22905	2.2103	4.31850	0.1416
60	Union Dawn	TransGas SSDA	56.73986	1.8654	3.60750	0.1183
61	Union Dawn	Centram SSDA	52.44229	1.7241	3.31621	0.1087
62	Union Dawn	Centram MDA	45.94133	1.5104	2.87555	0.0943
63	Union Dawn	Centrat MDA	45.91822	1.5096	2.87397	0.0942
64	Union Dawn	Union WDA	44.86702	1.4751	2.80273	0.0919
65	Union Dawn	Nipigon WDA	40.60412	1.3349	2.51378	0.0824
66	Union Dawn	Union NDA	22.41374	0.7369	1.28078	0.0420
67	Union Dawn	Calstock NDA	32.60697	1.0720	1.97172	0.0647
68	Union Dawn	Tunis NDA	26.31072	0.8650	1.54495	0.0507
69	Union Dawn	GMIT NDA	21.63264	0.7112	1.22783	0.0403
70	Union Dawn	Union SSM DA	18.75522	0.6166	1.03282	0.0339
71	Union Dawn	Union NCDA	13.97828	0.4596	0.70901	0.0233
72	Union Dawn	Union CDA	9.65334	0.3174	0.41588	0.0136
73	Union Dawn	Union EDA	17.32685	0.5697	0.93601	0.0307
74	Union Dawn	Enbridge CDA	11.28793	0.3711	0.52667	0.0173
75	Union Dawn	Enbridge Parkway CDA	9.52802	0.3133	0.40736	0.0134
76	Union Dawn	Enbridge EDA	20.65048	0.6789	1.16129	0.0381
77	Union Dawn	KPUC EDA	16.87578	0.5548	0.90543	0.0297
78	Union Dawn	GMIT EDA	24.96083	0.8206	1.45344	0.0477
79	Union Dawn	Enbridge SWDA	4.04238	0.1329	0.03553	0.0012
80	Union Dawn	Union SWDA	4.12876	0.1357	0.04141	0.0014
81	Union Dawn	Chippawa	11.35454	0.3733	0.53119	0.0174
82	Union Dawn	Cornwall	20.87405	0.6863	1.17644	0.0386

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Union Dawn	East Hereford	29.48683	0.9694	1.76022	0.0577
2	Union Dawn	Emerson 1	42.48691	1.3968	2.64140	0.0866
3	Union Dawn	Emerson 2	42.48691	1.3968	2.64140	0.0866
4	Union Dawn	Iroquois	19.84992	0.6526	1.10701	0.0363
5	Union Dawn	Kirkwall	8.60427	0.2829	0.34474	0.0113
6	Union Dawn	Napierville	24.58883	0.8084	1.42823	0.0468
7	Union Dawn	Niagara Falls	11.29705	0.3714	0.52728	0.0173
8	Union Dawn	North Bay Junction	18.21958	0.5990	0.99650	0.0327
9	Union Dawn	Philipsburg	25.01102	0.8223	1.45685	0.0478
10	Union Dawn	Spruce	45.91822	1.5096	2.87397	0.0942
11	Union Dawn	St. Clair	4.61816	0.1518	0.07458	0.0025
12	Union Dawn	Welwyn	52.44229	1.7241	3.31621	0.1087
13	Union Dawn	Dawn Export	4.04238	0.1329	0.03553	0.0012
14	Union Dawn	Union Parkway Belt	9.52802	0.3133	0.40736	0.0134
15	Union Dawn	Union CDA (Amended)	9.39753	0.3090	0.39853	0.0131
16	Union Dawn	Union ECDA	9.80664	0.3224	0.42624	0.0140
17	Union EDA	Empress	-	2.5656	-	0.1656
18	Union EDA	TransGas SSDA	-	2.2208	-	0.1423
19	Union EDA	Centram SSDA	-	2.0795	-	0.1328
20	Union EDA	Centram MDA	-	1.8658	-	0.1183
21	Union EDA	Centrat MDA	-	1.7718	-	0.1120
22	Union EDA	Union WDA	-	1.4034	-	0.0870
23	Union EDA	Nipigon WDA	-	1.2522	-	0.0768
24	Union EDA	Union NDA	-	0.6542	-	0.0364
25	Union EDA	Calstock NDA	-	0.9893	-	0.0591
26	Union EDA	Tunis NDA	-	0.7823	-	0.0451
27	Union EDA	GMIT NDA	-	0.6285	-	0.0347
28	Union EDA	Union SSMDA	-	1.0534	-	0.0634
29	Union EDA	Union NCDA	-	0.4582	-	0.0232
30	Union EDA	Union CDA	-	0.4131	-	0.0201
31	Union EDA	Union EDA	-	0.1329	-	0.0012
32	Union EDA	Enbridge CDA	-	0.3656	-	0.0169
33	Union EDA	Enbridge Parkway CDA	-	0.3893	-	0.0185
34	Union EDA	Enbridge EDA	-	0.2733	-	0.0107
35	Union EDA	KPUC EDA	-	0.1971	-	0.0055
36	Union EDA	GMIT EDA	-	0.3848	-	0.0182
37	Union EDA	Enbridge SWDA	-	0.5697	-	0.0307
38	Union EDA	Union SWDA	-	0.5725	-	0.0309
39	Union EDA	Chippawa	-	0.4967	-	0.0258
40	Union EDA	Cornwall	-	0.2508	-	0.0091
41	Union EDA	East Hereford	-	0.5340	-	0.0283
42	Union EDA	Emerson 1	-	1.8103	-	0.1146
43	Union EDA	Emerson 2	-	1.8103	-	0.1146
44	Union EDA	Iroquois	-	0.2222	-	0.0072
45	Union EDA	Kirkwall	-	0.4197	-	0.0206
46	Union EDA	Napierville	-	0.3730	-	0.0174
47	Union EDA	Niagara Falls	-	0.4948	-	0.0256
48	Union EDA	North Bay Junction	-	0.5163	-	0.0271
49	Union EDA	Philipsburg	-	0.3868	-	0.0183
50	Union EDA	Spruce	-	1.7718	-	0.1120
51	Union EDA	St. Clair	-	0.5886	-	0.0320
52	Union EDA	Welwyn	-	2.0795	-	0.1328
53	Union EDA	Dawn Export	-	0.5697	-	0.0307
54	Union EDA	Union Parkway Belt	-	0.3893	-	0.0185
55	Union EDA	Union CDA (Amended)	-	0.4378	-	0.0218
56	Union EDA	Union ECDA	-	0.3985	-	0.0191
57	Union NCDA	Empress	-	2.3245	-	0.1493
58	Union NCDA	TransGas SSDA	-	1.9797	-	0.1260
59	Union NCDA	Centram SSDA	-	1.8384	-	0.1165
60	Union NCDA	Centram MDA	-	1.6259	-	0.1021
61	Union NCDA	Centrat MDA	-	1.5278	-	0.0955
62	Union NCDA	Union WDA	-	1.1595	-	0.0706
63	Union NCDA	Nipigon WDA	-	1.0083	-	0.0603
64	Union NCDA	Union NDA	-	0.4100	-	0.0199
65	Union NCDA	Calstock NDA	-	0.7454	-	0.0426
66	Union NCDA	Tunis NDA	-	0.5384	-	0.0286
67	Union NCDA	GMIT NDA	-	0.3845	-	0.0182
68	Union NCDA	Union SSMDA	-	0.9433	-	0.0559
69	Union NCDA	Union NCDA	-	0.1329	-	0.0012
70	Union NCDA	Union CDA	-	0.3030	-	0.0127
71	Union NCDA	Union EDA	-	0.4582	-	0.0232
72	Union NCDA	Enbridge CDA	-	0.2737	-	0.0107
73	Union NCDA	Enbridge Parkway CDA	-	0.2792	-	0.0111
74	Union NCDA	Enbridge EDA	-	0.5343	-	0.0283
75	Union NCDA	KPUC EDA	-	0.4468	-	0.0224
76	Union NCDA	GMIT EDA	-	0.7027	-	0.0397
77	Union NCDA	Enbridge SWDA	-	0.4596	-	0.0233
78	Union NCDA	Union SWDA	-	0.4624	-	0.0234
79	Union NCDA	Chippawa	-	0.3866	-	0.0183
80	Union NCDA	Cornwall	-	0.5684	-	0.0306
81	Union NCDA	East Hereford	-	0.8516	-	0.0498
82	Union NCDA	Emerson 1	-	1.6405	-	0.1031

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Union NCDA	Emerson 2	-	1.6405	-	0.1031
2	Union NCDA	Iroquois	-	0.5366	-	0.0285
3	Union NCDA	Kirkwall	-	0.3096	-	0.0131
4	Union NCDA	Napierville	-	0.6905	-	0.0389
5	Union NCDA	Niagara Falls	-	0.3847	-	0.0182
6	Union NCDA	North Bay Junction	-	0.2724	-	0.0106
7	Union NCDA	Philipsburg	-	0.7044	-	0.0398
8	Union NCDA	Spruce	-	1.5278	-	0.0955
9	Union NCDA	St. Clair	-	0.4785	-	0.0245
10	Union NCDA	Welwyn	-	1.8384	-	0.1165
11	Union NCDA	Dawn Export	-	0.4596	-	0.0233
12	Union NCDA	Union Parkway Belt	-	0.2792	-	0.0111
13	Union NCDA	Union CDA (Amended)	-	0.3277	-	0.0143
14	Union NCDA	Union ECDA	-	0.2883	-	0.0117
15	Union NDA	Empress	-	1.4286	-	0.1306
16	Union NDA	TransGas SSDA	-	1.1879	-	0.1073
17	Union NDA	Centram SSDA	-	1.0893	-	0.0977
18	Union NDA	Centram MDA	-	0.9409	-	0.0833
19	Union NDA	Centrat MDA	-	0.8727	-	0.0767
20	Union NDA	Union WDA	-	0.6155	-	0.0518
21	Union NDA	Nipigon WDA	-	0.5101	-	0.0416
22	Union NDA	Union NDA	-	0.0927	-	0.0012
23	Union NDA	Calstock NDA	-	0.3266	-	0.0238
24	Union NDA	Tunis NDA	-	0.1989	-	0.0115
25	Union NDA	GMIT NDA	-	0.1848	-	0.0101
26	Union NDA	Union SSMDA	-	0.8518	-	0.0747
27	Union NDA	Union NCDA	-	0.3072	-	0.0199
28	Union NDA	Union CDA	-	0.4349	-	0.0314
29	Union NDA	Union EDA	-	0.4902	-	0.0364
30	Union NDA	Enbridge CDA	-	0.4128	-	0.0294
31	Union NDA	Enbridge Parkway CDA	-	0.4170	-	0.0298
32	Union NDA	Enbridge EDA	-	0.4480	-	0.0326
33	Union NDA	KPUC EDA	-	0.5277	-	0.0398
34	Union NDA	GMIT EDA	-	0.5801	-	0.0445
35	Union NDA	Enbridge SWDA	-	0.5522	-	0.0420
36	Union NDA	Union SWDA	-	0.5543	-	0.0422
37	Union NDA	Chippawa	-	0.4975	-	0.0371
38	Union NDA	Cornwall	-	0.4798	-	0.0355
39	Union NDA	East Hereford	-	0.6919	-	0.0546
40	Union NDA	Emerson 1	-	0.9514	-	0.0843
41	Union NDA	Emerson 2	-	0.9514	-	0.0843
42	Union NDA	Iroquois	-	0.4600	-	0.0337
43	Union NDA	Kirkwall	-	0.4398	-	0.0319
44	Union NDA	Napierville	-	0.5713	-	0.0437
45	Union NDA	Niagara Falls	-	0.4961	-	0.0369
46	Union NDA	North Bay Junction	-	0.1893	-	0.0105
47	Union NDA	Philipsburg	-	0.5817	-	0.0447
48	Union NDA	Spruce	-	0.8727	-	0.0767
49	Union NDA	St. Clair	-	0.5274	-	0.0433
50	Union NDA	Welwyn	-	1.0893	-	0.0977
51	Union NDA	Dawn Export	-	0.5522	-	0.0420
52	Union NDA	Union Parkway Belt	-	0.4170	-	0.0298
53	Union NDA	Union CDA (Amended)	-	0.4534	-	0.0331
54	Union NDA	Union ECDA	-	0.4238	-	0.0304
55	Union Parkway Belt	Empress	72.71500	2.3906	4.69033	0.1538
56	Union Parkway Belt	TransGas SSDA	62.22550	2.0458	3.97933	0.1305
57	Union Parkway Belt	Centram SSDA	57.92793	1.9045	3.68804	0.1209
58	Union Parkway Belt	Centram MDA	51.42698	1.6908	3.24739	0.1065
59	Union Parkway Belt	Centrat MDA	50.92176	1.6741	3.21314	0.1054
60	Union Parkway Belt	Union WDA	39.71839	1.3058	2.45373	0.0805
61	Union Parkway Belt	Nipigon WDA	35.11878	1.1546	2.14195	0.0702
62	Union Parkway Belt	Union NDA	16.92748	0.5565	0.90892	0.0298
63	Union Parkway Belt	Calstock NDA	27.12102	0.8917	1.59989	0.0525
64	Union Parkway Belt	Tunis NDA	20.82538	0.6847	1.17313	0.0385
65	Union Parkway Belt	GMIT NDA	16.14638	0.5308	0.85599	0.0281
66	Union Parkway Belt	Union SSMDA	24.24117	0.7970	1.40465	0.0461
67	Union Parkway Belt	Union NCDA	8.49264	0.2792	0.33718	0.0111
68	Union Parkway Belt	Union CDA	4.76720	0.1567	0.08466	0.0028
69	Union Parkway Belt	Union EDA	11.84212	0.3893	0.56423	0.0185
70	Union Parkway Belt	Enbridge CDA	6.05839	0.1992	0.17218	0.0057
71	Union Parkway Belt	Enbridge Parkway CDA	4.04238	0.1329	0.03553	0.0012
72	Union Parkway Belt	Enbridge EDA	15.16514	0.4986	0.78946	0.0259
73	Union Parkway Belt	KPUC EDA	11.39043	0.3745	0.53360	0.0175
74	Union Parkway Belt	GMIT EDA	19.47488	0.6403	1.08161	0.0355
75	Union Parkway Belt	Enbridge SWDA	9.52802	0.3133	0.40736	0.0134
76	Union Parkway Belt	Union SWDA	9.61501	0.3161	0.41326	0.0136
77	Union Parkway Belt	Chippawa	7.30852	0.2403	0.25694	0.0084
78	Union Parkway Belt	Cornwall	15.38840	0.5059	0.80461	0.0264
79	Union Parkway Belt	East Hereford	24.00088	0.7891	1.38839	0.0455
80	Union Parkway Belt	Emerson 1	47.97256	1.5772	3.01323	0.0988
81	Union Parkway Belt	Emerson 2	47.97256	1.5772	3.01323	0.0988
82	Union Parkway Belt	Iroquois	14.36427	0.4723	0.73518	0.0241

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Union Parkway Belt	Kirkwall	4.96613	0.1633	0.09815	0.0032
2	Union Parkway Belt	Napierville	19.10349	0.6281	1.05640	0.0346
3	Union Parkway Belt	Niagara Falls	7.25103	0.2384	0.25303	0.0083
4	Union Parkway Belt	North Bay Junction	12.73394	0.4187	0.62467	0.0205
5	Union Parkway Belt	Philipsburg	19.52568	0.6419	1.08502	0.0356
6	Union Parkway Belt	Spruce	50.92176	1.6741	3.21314	0.1054
7	Union Parkway Belt	St. Clair	10.10381	0.3322	0.44641	0.0146
8	Union Parkway Belt	Welwyn	57.92793	1.9045	3.68804	0.1209
9	Union Parkway Belt	Dawn Export	9.52802	0.3133	0.40736	0.0134
10	Union Parkway Belt	Union Parkway Belt	4.04238	0.1329	0.03553	0.0012
11	Union Parkway Belt	Union CDA (Amended)	5.51758	0.1814	0.13553	0.0044
12	Union Parkway Belt	Union ECDA	4.32069	0.1421	0.05441	0.0018
13	Union SSMDA	Empress	-	1.2958	-	0.1177
14	Union SSMDA	TransGas SSDA	-	1.0551	-	0.0944
15	Union SSMDA	Centram SSDA	-	0.9565	-	0.0848
16	Union SSMDA	Centram MDA	-	0.8074	-	0.0704
17	Union SSMDA	Centrat MDA	-	0.8068	-	0.0703
18	Union SSMDA	Union WDA	-	1.0857	-	0.0974
19	Union SSMDA	Nipigon WDA	-	1.1694	-	0.1055
20	Union SSMDA	Union NDA	-	0.8518	-	0.0747
21	Union SSMDA	Calstock NDA	-	1.0856	-	0.0973
22	Union SSMDA	Tunis NDA	-	0.9412	-	0.0834
23	Union SSMDA	GMIT NDA	-	0.8339	-	0.0730
24	Union SSMDA	Union SSMDA	-	0.0927	-	0.0012
25	Union SSMDA	Union NCDA	-	0.7068	-	0.0559
26	Union SSMDA	Union CDA	-	0.6003	-	0.0463
27	Union SSMDA	Union EDA	-	0.7893	-	0.0634
28	Union SSMDA	Enbridge CDA	-	0.6405	-	0.0500
29	Union SSMDA	Enbridge Parkway CDA	-	0.5972	-	0.0461
30	Union SSMDA	Enbridge EDA	-	0.8712	-	0.0708
31	Union SSMDA	KPUC EDA	-	0.7782	-	0.0624
32	Union SSMDA	GMIT EDA	-	0.9773	-	0.0804
33	Union SSMDA	Enbridge SWDA	-	0.4620	-	0.0339
34	Union SSMDA	Union SWDA	-	0.4599	-	0.0337
35	Union SSMDA	Chippawa	-	0.6422	-	0.0501
36	Union SSMDA	Cornwall	-	0.8767	-	0.0713
37	Union SSMDA	East Hereford	-	1.0889	-	0.0904
38	Union SSMDA	Emerson 1	-	0.7281	-	0.0627
39	Union SSMDA	Emerson 2	-	0.7281	-	0.0627
40	Union SSMDA	Iroquois	-	0.8515	-	0.0690
41	Union SSMDA	Kirkwall	-	0.5744	-	0.0440
42	Union SSMDA	Napierville	-	0.9682	-	0.0795
43	Union SSMDA	Niagara Falls	-	0.6408	-	0.0500
44	Union SSMDA	North Bay Junction	-	0.7556	-	0.0654
45	Union SSMDA	Philipsburg	-	0.9786	-	0.0805
46	Union SSMDA	Spruce	-	0.8068	-	0.0703
47	Union SSMDA	St. Clair	-	0.4171	-	0.0326
48	Union SSMDA	Welwyn	-	0.9565	-	0.0848
49	Union SSMDA	Dawn Export	-	0.4620	-	0.0339
50	Union SSMDA	Union Parkway Belt	-	0.5972	-	0.0461
51	Union SSMDA	Union CDA (Amended)	-	0.5940	-	0.0458
52	Union SSMDA	Union ECDA	-	0.6040	-	0.0467
53	Union WDA	Empress	-	0.9288	-	0.0822
54	Union WDA	TransGas SSDA	-	0.6881	-	0.0588
55	Union WDA	Centram SSDA	-	0.5895	-	0.0493
56	Union WDA	Centram MDA	-	0.4412	-	0.0349
57	Union WDA	Centrat MDA	-	0.3728	-	0.0283
58	Union WDA	Union WDA	-	0.0927	-	0.0012
59	Union WDA	Nipigon WDA	-	0.2022	-	0.0118
60	Union WDA	Union NDA	-	0.6155	-	0.0518
61	Union WDA	Calstock NDA	-	0.3817	-	0.0292
62	Union WDA	Tunis NDA	-	0.5262	-	0.0432
63	Union WDA	GMIT NDA	-	0.6451	-	0.0547
64	Union WDA	Union SSMDA	-	1.0857	-	0.0974
65	Union WDA	Union NCDA	-	0.8689	-	0.0706
66	Union WDA	Union CDA	-	0.9963	-	0.0821
67	Union WDA	Union EDA	-	1.0516	-	0.0870
68	Union WDA	Enbridge CDA	-	0.9744	-	0.0801
69	Union WDA	Enbridge Parkway CDA	-	0.9785	-	0.0805
70	Union WDA	Enbridge EDA	-	1.0091	-	0.0832
71	Union WDA	KPUC EDA	-	1.0887	-	0.0904
72	Union WDA	GMIT EDA	-	1.1414	-	0.0952
73	Union WDA	Enbridge SWDA	-	1.1053	-	0.0919
74	Union WDA	Union SWDA	-	1.1071	-	0.0921
75	Union WDA	Chippawa	-	1.0589	-	0.0877
76	Union WDA	Cornwall	-	1.0408	-	0.0861
77	Union WDA	East Hereford	-	1.2529	-	0.1052
78	Union WDA	Emerson 1	-	0.4516	-	0.0359
79	Union WDA	Emerson 2	-	0.4516	-	0.0359
80	Union WDA	Iroquois	-	1.0210	-	0.0843
81	Union WDA	Kirkwall	-	1.0012	-	0.0825
82	Union WDA	Napierville	-	1.1323	-	0.0943

Line No.	Receipt Point	Delivery Point	FT Toll (\$/GJ/Month)	Daily Equivalent FT for IT / STFT (\$/GJ)	Abandonment Surcharge (\$/GJ/Month)	Daily Equivalent Abandonment Surcharge (\$/GJ)
1	Union WDA	Niagara Falls	-	1.0575	-	0.0876
2	Union WDA	North Bay Junction	-	0.7118	-	0.0611
3	Union WDA	Philipsburg	-	1.1427	-	0.0953
4	Union WDA	Spruce	-	0.3728	-	0.0283
5	Union WDA	St. Clair	-	1.0403	-	0.0930
6	Union WDA	Welwyn	-	0.5895	-	0.0493
7	Union WDA	Dawn Export	-	1.1053	-	0.0919
8	Union WDA	Union Parkway Belt	-	0.9785	-	0.0805
9	Union WDA	Union CDA (Amended)	-	1.0148	-	0.0837
10	Union WDA	Union ECDA	-	0.9853	-	0.0811
11	Welwyn	Empress	13.13970	0.4320	1.03782	0.0340
12	Welwyn	TransGas SSDA	5.81993	0.1913	0.32684	0.0107
13	Welwyn	Centram SSDA	2.82084	0.0927	0.03553	0.0012
14	Welwyn	Centram MDA	7.37361	0.2424	0.47777	0.0157
15	Welwyn	Centrat MDA	9.41213	0.3094	0.67576	0.0222
16	Welwyn	Union WDA	17.93093	0.5895	1.50323	0.0493
17	Welwyn	Nipigon WDA	20.44000	0.6720	1.74693	0.0573
18	Welwyn	Union NDA	33.13409	1.0893	2.97994	0.0977
19	Welwyn	Calstock NDA	26.02055	0.8555	2.28899	0.0751
20	Welwyn	Tunis NDA	30.41423	0.9999	2.71575	0.0890
21	Welwyn	GMIT NDA	34.03047	1.1188	3.06698	0.1006
22	Welwyn	Union SSMDA	29.09385	0.9565	2.58750	0.0848
23	Welwyn	Union NCDA	41.89957	1.3775	3.55171	0.1165
24	Welwyn	Union CDA	43.50070	1.4302	3.69656	0.1212
25	Welwyn	Union EDA	47.39495	1.5582	4.04884	0.1328
26	Welwyn	Enbridge CDA	44.49076	1.4627	3.78614	0.1241
27	Welwyn	Enbridge Parkway CDA	43.40641	1.4271	3.68804	0.1209
28	Welwyn	Enbridge EDA	46.15395	1.5174	3.93659	0.1291
29	Welwyn	KPUC EDA	48.58789	1.5974	4.15676	0.1363
30	Welwyn	GMIT EDA	50.19145	1.6501	4.30181	0.1410
31	Welwyn	Enbridge SWDA	39.29590	1.2919	3.31621	0.1087
32	Welwyn	Union SWDA	39.23050	1.2898	3.31031	0.1085
33	Welwyn	Chippawa	44.77546	1.4721	3.81187	0.1250
34	Welwyn	Cornwall	47.12941	1.5495	4.02481	0.1320
35	Welwyn	East Hereford	53.58322	1.7616	4.60861	0.1511
36	Welwyn	Emerson 1	9.76801	0.3211	0.71034	0.0233
37	Welwyn	Emerson 2	9.76801	0.3211	0.71034	0.0233
38	Welwyn	Iroquois	46.52716	1.5297	3.97033	0.1302
39	Welwyn	Kirkwall	42.71413	1.4043	3.62541	0.1189
40	Welwyn	Napierville	49.91284	1.6410	4.27661	0.1402
41	Welwyn	Niagara Falls	44.73227	1.4707	3.80795	0.1249
42	Welwyn	North Bay Junction	36.06109	1.1856	3.26421	0.1070
43	Welwyn	Philipsburg	50.22917	1.6514	4.30522	0.1412
44	Welwyn	Spruce	9.41213	0.3094	0.67576	0.0222
45	Welwyn	St. Clair	36.19431	1.1900	3.27715	0.1075
46	Welwyn	Welwyn	2.82084	0.0927	0.03553	0.0012
47	Welwyn	Dawn Export	39.29590	1.2919	3.31621	0.1087
48	Welwyn	Union Parkway Belt	43.40641	1.4271	3.68804	0.1209
49	Welwyn	Union CDA (Amended)	43.30847	1.4238	3.67920	0.1206
50	Welwyn	Union ECDA	43.61507	1.4339	3.70690	0.1215

- Notes:
- (i) Aggregate charges for Mainline transportation service will include the applicable transportation toll, abandonment surcharge, delivery pressure toll (if applicable) and Dawn receipt surcharge (if applicable) pursuant to the Mainline Tariff.
  - (ii) Any transportation with a Union Dawn receipt point is subject to a Union Dawn Receipt Point Surcharge. Transport under FT, FT-NR, FT-SN and EMB service is subject to the monthly surcharge toll, and other transportation services are subject to the daily equivalent toll. Refer to page 1 for the Union Dawn Receipt Point Surcharge tolls.
  - (iii) Transportation with receipt points from delivery areas or Spruce is for STFT and IT service only.
  - (iv) The following delivery points are subject to an additional charge for delivery pressure: Emerson 1 & 2, Union SWDA, Enbridge SWDA, Dawn Export, Niagara Falls, Iroquois, Chippawa, and East Hereford. Refer to page 1 for the delivery pressure toll.
  - (v) Effective November 1, 2016, the Union CDA is modified such that the Union Parkway Belt, Bronte and Burlington meters are removed from the Union CDA. The Bronte and Burlington meters are put within a new delivery area called the Union ECDA, and the Parkway-Union meter will become a new standalone delivery location called Union Parkway Belt. The remaining Union CDA meters, Nanticoke and Hamilton Gate, continue to reside in the Union CDA.
  - (vi) The following transportation services are subject to the Abandonment Surcharges: FT, FT-NR, STS, STS-L, SSS, FT-SN, MFP, EMB, IT, STFT, and ST-SN. The Daily Equivalent Abandonment Surcharge is only applicable to IT, SSS, STFT, ST-SN, ARPs, Diversions and STS Overrun.

September 18, 2015

Kimberly D. Bose  
Secretary, Federal Energy Regulatory Commission  
888 First Street, NE  
Washington, DC 20426

Re: Centra Pipelines Minnesota Inc., Docket No. RP15-\_\_\_\_-000  
Petition for Approval of Settlement

Dear Secretary Bose:

Pursuant to Rule 207(a)(5) of the Commission's Rule of Practice and Procedure, 18 C.F.R. § 385.207(a) (5), Centra Pipelines Minnesota Inc. ("CPMI") hereby submits for filing:

- A "Petition for Approval of Settlement" (the "Petition") requesting Commission approval of a Stipulation and Settlement Agreement (the "Settlement");
- Appended to the Petition as Exhibit 1, the Settlement, which includes as Appendix B a pro forma eTariff Section No. 4 that implements the Settlement Rate (as defined in the Petition);
- Appended to the Petition as Exhibit 2, a draft Commission Letter Order approving the Settlement, which draft Letter Order contains a summary of the Settlement's terms;
- A draft notice of the Petition setting September 30, 2015 as the deadline for interventions and comments; and,
- A certificate of service upon all shippers and interested state commissions as required by Section 154.7 of the Commission's Rule of Practice and Procedure.

The subject Settlement is hereby submitted by CPMI in lieu of a general rate change filing. CPMI and its shippers are mindful that the Commission "encourages" pipelines and their customers to resolve rate and tariff matters before making a rate/tariff change filing with the Commission, because such a process enables the prompt, efficient resolution of such matters for the benefit of all concerned, "without the expense of a hearing and lengthy litigation." *Dominion Transmission, Inc.* 111 FERC 61,285, at P 30 (2005) ("*Dominion*"). CPMI is following the guidance of the Commission in *Dominion*, petitioning under 18 C.F.R. § 385.207(a)(5) for Commission approval of the Settlement.

CPMI's shippers have indicated that they are not opposed to CPMI's Petition for Approval and the proposed terms of the Settlement. For this reason, CPMI does not anticipate

Kimberly D. Bose  
September 18, 2015  
Page 2

any protests to its Petition. In light of this Settlement, which contemplates implementation of the Settlement Rate effective November 1, 2015, CPMI requests that the Commission set September 30, 2015 as the deadline for interventions and comments, as reflected on the attached draft notice of the Petition.

CPMI is delivering copies of this letter and attachments to all customers and interested state commissions by email as set forth in the Certificate of Service appended to the Petition.

Respectfully submitted,

*/s/ Joan M. Darby*

Joan M. Darby

Attorney for  
Centra Pipelines Minnesota Inc.

**UNITED STATES OF AMERICA  
BEFORE THE  
FEDERAL ENERGY REGULATORY COMMISSION**

In the Matter of	)	
	)	Docket No. RP15-____-000
Centra Pipelines Minnesota Inc.	)	

**PETITION OF  
CENTRA PIPELINES MINNESOTA INC.  
FOR APPROVAL OF SETTLEMENT**

Pursuant to Rule 207(a)(5) of the Federal Energy Regulatory Commission's ("Commission") Rules of Practice and Procedure, 18 C.F.R. § 385.207(a)(5), Centra Pipelines Minnesota Inc. ("CPMI") hereby petitions the Commission for approval of the "Stipulation and Settlement Agreement," dated September 18, 2015 (the "Settlement," attached hereto as Exhibit 1), including the associated pro forma tariff section appearing in Appendix B to the Settlement. In support hereof, CPMI shows as follows:

**CORRESPONDENCE AND COMMUNICATIONS**

Communications concerning this filing and service of all documents should be addressed to the following:

J.P. Todd Karry, President  
Joe Brophy, VP & General Manager  
Centra Pipelines Minnesota Inc.  
2324 Main Street  
London, Ontario, N6P 1A9 CANADA  
TKarry@efgroupllc.com  
JBrophy@efgroupllc.com  
Tel: (519) 652-5357 / Fax: (519) 652-0428

Beth L. Webb  
Joan M. Darby  
Dickstein Shapiro LLP  
1825 Eye Street NW  
Washington, DC 20006  
WebbB@dicksteinshapiro.com  
DarbyJ@dicksteinshapiro.com  
Tel: (202) 420-2200 / Fax: (202) 420-2201



## BACKGROUND

CPMI's transportation system is the U.S. portion of an integrated natural gas pipeline system that extends from the TransCanada Pipeline mainline at Station 43 located near Spruce, Manitoba to CPMI's most easterly delivery point, the town border station located in International Falls, Minnesota. The Canadian portion of the integrated system is owned and operated by Centra Transmission Holdings Inc., ("CTHI"), a wholly owned subsidiary of Energy Fundamentals Group Limited Partnership. CTHI is regulated by the National Energy Board of Canada. The U.S. portion of the integrated system, owned and operated by CPMI, is comprised of three sections: (1) a 52 mile 12-inch main line transportation system interconnecting with CTHI's upstream import point at Warroad, MN, and downstream export point with CTHI at Baudette, MN, (2) an 18 mile, 3.5-inch lateral from the CPMI main line to the City of Roseau, MN and (3) a 0.5 mile, 12-inch border crossing interconnecting with CTHI at International Falls, MN.

CPMI is not an interstate pipeline. The Commission regulates CPMI under NGA Section 3. See *Inter-City Minnesota Pipelines Ltd.*, Docket No. CP83-25-000, 29 FERC ¶ 61,105 (Oct. 31, 1984).<sup>1</sup> Moreover, CPMI is not an open access transporter. FERC has permitted CPMI to provide all of its services under Part 157 certificate authority. See *Inter-City Minnesota Pipelines Ltd.*, Docket No. CP90-973-000, 53 FERC ¶ 61,162 (Nov. 1, 1990). CPMI qualifies as a Non-major natural gas company under Part 201 of FERC Regulations.

CPMI provides firm transportation service only and has one unified demand rate applicable to service on all CPMI facilities. CPMI's unified demand rate was previously determined in a rate case settlement agreement and was approved by the Commission in 1992 to be effective October 16, 1991. See *Centra Pipelines Minnesota Inc.*, Docket No. RP91-136-004, 58 FERC ¶ 61,195 (Feb. 20, 1992). That rate was modified when pre-filing settlement rates were approved by the Commission to be effective February 1, 2011 and November 1, 2014. See *Centra Pipelines Minnesota Inc.*, Docket No. RP11-1718-000, 134 FERC ¶ 61,225 (Mar. 22, 2011) and Docket No. RP14-1125-000, 148 FERC ¶ 61,162 (Sept. 3, 2014).

## THE SETTLEMENT

The Settlement establishes a new demand rate, to be effective as of November 1, 2015, of \$3.299 per Mcf per month, as set forth in the pro forma eTariff Section No. 4 appended to the Settlement as Appendix B (the "Settlement Rate"). The reason for the new demand rate is a reduction in aggregate shipper Contract Demand to become effective November 1, 2015. One

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<sup>1</sup> CPMI formerly operated as Inter-City Minnesota Pipelines Ltd.

of CPMI's current three shippers, Minnesota Energy Resources Corporation, has elected to reduce its capacity commitment effective November 1, 2015. The new demand rate is designed to maintain revenue neutrality at the lower contract demand level; there is no change in CPMI's cost of service and associated revenue recovery. No other terms and conditions of CPMI's FERC Gas Tariff are affected. Appended to this Petition as Exhibit 2 is a draft Commission Letter Order approving the Settlement. The terms of the Settlement are summarized in that draft Letter Order.

The Settlement is the product of dialogue and negotiation between CPMI and its three shippers. CPMI provided each shipper with a memorandum dated August 25, 2015 which details the basis, rationale and calculation of CPMI's proposed demand rate. CPMI provided to its shippers detail and background associated with the reduction in contract demand that explains the proposed demand rate change and responded to shipper questions. This Petition reflects the limited settlement agreed to by CPMI and its shippers. CPMI does not anticipate any protests to its Petition. Notwithstanding the foregoing, CPMI reserves its right to argue in reply comments that the Settlement should bind all CPMI's shippers despite any objection that may be filed.

### PETITION

Recognizing the benefits of affording pipelines and their customers a prompt, efficient process for resolving rate and tariff matters before making a rate or tariff change filing, in *Dominion Transmission, Inc.*, 111 FERC ¶ 61,285, at P 30 (2005) ("*Dominion*"), the Commission expressly encouraged pre-filing settlements.<sup>2</sup> As the Commission explained, such a prompt, efficient resolution of rate and tariff matters enables parties to achieve the benefits of settlement without the expense of a hearing and lengthy litigation. *Id.* As noted above, CPMI and its shippers benefitted from the Commission's approval of such pre-filing settlements in 2011 and again in 2014.

In *Dominion*, the Commission provided the industry with guidance for implementing a proactive settlement reached outside the context of a pending rate proceeding, instructing as follows:

In future situations of this kind, when a pipeline has negotiated an agreement with its customers and others to change its rates and terms and conditions of service and the pipeline desires approval

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<sup>2</sup> See also *Tuscarora Gas Transmission Co.*, 116 FERC ¶ 61,003 at P 15 (2006), *Discovery Gas Transmission LLC*, 122 FERC ¶ 61,009 at P 25 (2008) and *Gas Transmission Northwest LLC*, 151 FERC ¶ 61,280 (2015).

of the agreement before making an actual Section 4 tariff filing, the pipeline should simply file, pursuant to Section 385.207(a)(5), (footnote omitted) a petition for approval of the agreement, along with pro forma tariff sheets showing how the agreement would be implemented. The Commission will treat the petition for approval of the agreement as initiating a new proceeding, and issue a notice providing for interventions, comments, and protests. The Commission will act expeditiously on the proposal to ensure [the benefits of the settlement] are implemented as quickly as possible. If the Commission approves the agreement, it will direct that the pipeline file, pursuant to NGA Section 4(d) and Section 154.203 of the Commission's regulations, actual tariff sheets implementing the agreement consistent with the terms of the agreement as approved by the Commission. The Commission will treat such a filing as a filing to comply with the Commission's order approving the agreement, and the Commission will place tariff sheets that properly implement the agreement, as approved, into effect on the date provided for in the agreement.

*Id.* at P 32. In accordance with the Commission's instructions in *Dominion*, CPMI is filing this Petition seeking Commission approval of the Settlement.

CPMI respectfully petitions the Commission for prompt approval of the Settlement. A prompt Commission order approving the Settlement would afford CPMI and its shippers the benefit of timely direction from the Commission. It would permit CPMI and its shippers to implement the new demand rate as reflected in the Settlement effective November 1, 2015, coincident with the reductions in Contract Demand. Finally, and most importantly, it also would avoid the expense of a hearing and protracted litigation.

## CONCLUSION

WHEREFORE, CPMI respectfully requests that the Commission grant this Petition and approve the Settlement without modification or condition. CPMI further requests that the Commission grant any other authorizations or waivers that it may deem necessary to approve the Settlement as proposed.

Respectfully submitted,

September 18, 2015

/s/ Joan M. Darby

Beth L. Webb  
Joan M. Darby  
Dickstein Shapiro LLP  
1825 Eye Street NW  
Washington, DC 20006  
(202) 420-2200

Attorneys for  
Centra Pipeline Minnesota Inc.

For Settlement Purposes

**UNITED STATES OF AMERICA  
BEFORE THE  
FEDERAL ENERGY REGULATORY COMMISSION**

**CENTRA PIPELINES MINNESOTA INC. Docket No. RP15- -**

**STIPULATION AND SETTLEMENT AGREEMENT**

**(September 18, 2015)**

This Stipulation and Settlement Agreement (the "Settlement") reflects the outcome of dialogue and negotiation between Centra Pipeline Minnesota Inc. ("CPMI") and each of its three shippers on CPMI's system as of November 1, 2015 ("Shippers"). CPMI submits this Settlement with the three Shippers, each of which is listed on Appendix A hereto, in lieu of making a general rate change filing.

**ARTICLE I  
RATE MATTERS**

**Section 1.1 The Settlement Rate**

The settlement rate is the demand rate set forth in the pro forma eTariff Section No. 4, attached as Appendix B hereto (the "Settlement Rate"). The Settlement Rate is \$3.299/Mcf per month for service on CPMI.

**Section 1.2 Cost of Service**

The cost of service underlying CPMI's Settlement Rate remains unchanged from the cost of service underlying the 2011 settlement rate approved by the Commission. That settlement proposal was developed by applying a conventional itemized approach to determining each cost component with reference to actual historical cost of service incurred as a basis of comparison to recent operating results. CPMI is not proposing a change in its cost of service and no Shipper is advocating a change in CPMI's underlying cost of service at this time. In addition, it should be noted that this Stipulation and Settlement Agreement is an agreement solely on the Settlement Rate and that nothing herein constitutes an agreement on cost of service, rate of return or other matters. All Shippers have agreed to not to oppose CPMI's Petition for Approval of Settlement.

### **Section 1.3 Implementation of Settlement Rate**

As between CPMI and its Shippers, the Commission's order approving this Settlement in accord with Article III hereof shall constitute all authority necessary for the Settlement Rate to become effective November 1, 2015 and continue in effect for the Term of the Settlement as defined at Article II herein.

### **Section 1.4 No Refunds; Billing**

Because the Settlement Rate is higher than CPMI's existing tariff rate, no refunds are due to any of CPMI's Shippers. If the Settlement Rate is approved by the Commission after November 1, 2015, Shippers shall be billed retroactively to November 1, 2015 for the increase reflected in the Settlement Rate.

## **ARTICLE II TERM**

The Term of this Settlement shall commence on the Effective Date (as defined at Article 3.1) and shall terminate on the earliest of the date on which new rates become effective pursuant to: (i) a superseding general rate change filing under Section 4 of the Natural Gas Act; (ii) a superseding settlement agreement approved by the Commission; or (iii) a modification to CPMI's rate in a proceeding instituted pursuant to Section 5 of the Natural Gas Act.

## **ARTICLE III PROCEDURAL MATTERS**

### **Section 3.1 Effective Date/Nonseverability**

The provisions of this Settlement are not severable and shall become binding and effective on the date when the Commission order that approves this Settlement as to all its terms without material modification(s), reservation(s) or condition(s) (collectively referred to as "modification"), unless such modification is accepted pursuant to Section 3.2 hereof, becomes final (the "Effective Date").

### **Section 3.2 Commission Modification to Settlement**

In the event that the Commission by order approves this Settlement with a modification materially adverse to CPMI or any Shipper, then CPMI or any such Shipper shall be deemed to have accepted such modification unless, by written notice filed with the Commission and

served on all parties no later than 14 days after issuance of such order, CPMI or any such Shipper states its refusal to accept the Settlement as modified. In the event that CPMI or a Shipper gives notice of its refusal to accept the Settlement as modified, then this Settlement shall be deemed contested as of the end of such 14-day period for purposes of Section 3.3 hereof.

### **Section 3.3 Contests to Settlement Offer**

In the event this Settlement is contested pursuant to Section 3.2 hereof, and such contest is not withdrawn within 15 days of the original filing of such contest, then this Settlement may be withdrawn by CPMI for all purposes and, if so withdrawn, shall be deemed of no further force or effect.

### **Section 3.4 Tariff Sheets**

Within seven business days of the Effective Date, or such earlier date designated in the Commission order, CPMI shall file with the Commission a new eTariff Section No. 4 that is substantively identical to the pro forma eTariff Section No. 4 set forth in Appendix B hereto. Regardless of the Effective Date of the Settlement, the effective date of the new eTariff Section No. 4 and the Settlement Rate set forth therein shall be November 1, 2015 as provided in Article I hereof.

### **Section 3.5 Privileged and Confidential**

It is agreed that unless the Settlement is approved and becomes effective in accordance with its terms, the Settlement shall be privileged and shall not be discoverable, admissible in evidence or in any way described or discussed in any proceeding.

## **ARTICLE IV WAIVERS**

Approval of this Settlement shall constitute any and all waivers of the Commission's rules and regulations that may be necessary to effectuate the Settlement in accordance with all of its terms.

**ARTICLE V**  
**RESERVATIONS AND CONDITIONS**

This Settlement represents a resolution of all CPMI rate and tariff matters for the term of this Settlement. Except as specifically provided in this Settlement, no party shall be deemed to have waived any claim or right as to matters not addressed herein. This Settlement represents the entire agreement of the parties with respect to the CPMI rate and tariff matters resolved. Except as specifically provided in this Settlement, no party shall be deemed to have accepted or consented to any policy or principle purported to underlie the provisions of this Settlement. Except as specifically provided in this Settlement, the parties shall have the same rights under the Natural Gas Act that they would have had absent approval of this Settlement.



For Settlement Purposes

**APPENDIX A**  
**THE SHIPPER PARTIES**

Boise White Paper LLC  
Minnesota Energy Resources Corporation  
Union Gas Limited

For Settlement Purposes

**APPENDIX B**  
**STATEMENT OF RATES**

**4.0 STATEMENT OF RATES**

	<b>Base Rate (\$)</b>	<b>Adj. (\$)</b>	<b>Total Rate (\$)</b>
<b>FT</b>			
Demand	3.251	0.048	3.299
AOS	0.0000	0.0000	0.0000

\_\_\_\_ FERC ¶ \_\_\_\_  
FEDERAL ENERGY REGULATORY COMMISSION  
Washington, D.C. 20426

\_\_\_\_\_, 2015

In Reply Refer To:  
Centra Pipelines Minnesota Inc.  
Docket No. RP15- \_\_\_\_ -000

Centra Pipelines Minnesota Inc.  
Attention: J.P. Todd Karry  
2324 Main Street  
London, Ontario, N6P 1A9  
Canada

Dickstein Shapiro LLP  
Attention: Beth L. Webb, Esquire  
1825 Eye Street NW  
Washington, DC 20006

Re: Centra Pipelines Minnesota Inc.  
Docket No. RP15- \_\_\_\_ -000

Dear Mr. Karry and Ms. Webb:

On September 18, 2015, pursuant to Rule 207(a)(5) of the Commission's Rules of Practice and Procedure,<sup>1</sup> Centra Pipelines Minnesota Inc. (CPMI) filed in Docket No. RP15- \_\_\_\_ -000 a Petition for Approval of Settlement (Settlement) in lieu of submitting a general rate change filing to revise CPMI's transportation rates. The Settlement is uncontested. As discussed below, the Commission approves the Settlement, with the rates thereunder to become effective November 1, 2015. The principal terms of the Settlement are summarized below.

1. Article I describes the process of developing the Settlement and sets for the Settlement Rate of \$3.299/Mcf per month for service on CPMI.
2. Article II provides that the term shall commence on the effective date and terminate on the earliest of the date on which new rates become effective pursuant to: (i) a superseding general rate change filing under Section 4 of the Natural Gas Act; (ii) a superseding settlement agreement approved by the Commission; or (iii) a modification to CPMI's rate in a proceeding instituted pursuant to Section 5 of the Natural Gas Act.

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<sup>1</sup> 18 C.F.R. § 385.207(a)(5) (2014).

3. Article III describes the effective date of the Settlement as the date on which the Commission order approving the Settlement becomes final. Article III specifies that CPMI shall file a new eTariff section No. 4 that is substantively identical to the pro forma eTariff section No. 4 appended to the Settlement within seven business days of the Settlement's becoming effective. Article III also specifies that the new eTariff section No. 4 shall have an effective date of November 1, 2015.

4. Article IV states that Commission approval of the Settlement shall constitute any and all waivers of the Commission's rules and regulations that may be necessary to effectuate the Settlement.

5. Article V contains reservations and conditions. It provides that the Settlement represents a resolution of all CPMI rate and tariff matters for the term of the Settlement. It also provides that, except as specifically provided for in the Settlement, no party shall be deemed to have waived any claim or right as to matters not addressed in the Settlement, and the parties shall have the same rights under the Natural Gas Act that they would have had absent approval of the Settlement.

6. Public notice of the Settlement was issued on \_\_\_\_\_, 2015. Interventions and protests due as provided in Section 154.210 of the Commission's regulations.<sup>2</sup> Pursuant to 18 C.F.R. § 385.214, all timely filed motions to intervene and any unopposed motion to intervene out-of-time filed before the issuance date of this order are granted. Granting late intervention at this stage of the proceeding will not disrupt the proceeding or place additional burdens on existing parties. No protests or adverse comments were filed.

7. The Commission finds that the Settlement appears to be fair and reasonable and in the public interest, and accordingly the Commission approves the Settlement, with the rates thereunder effective November 1, 2015, pursuant to its terms. The Settlement, which was filed in lieu of a rate case, resolves system-wide rate issues consistent with the Commission's guidance for settlements outside the context of an existing proceeding.<sup>3</sup> The Commission's approval of this Settlement does not constitute approval of, or precedent regarding, any principle or issue in this proceeding.

8. Within seven business days of the issuance of this order, the Commission directs CPMI to file tariff records in eTariff format as required by Order No. 714<sup>4</sup> in order to implement the pro forma tariff records proffered with the Settlement. This letter order terminates Docket No. RP15-\_\_\_\_-000.

By direction of the Commission.

Kimberly D. Bose  
Secretary

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<sup>2</sup> 18 C.F.R. § 154.210 (2014).

<sup>3</sup> See, e.g., *Dominion Transmission Inc.*, 111 FERC ¶ 61,285 (2005).

<sup>4</sup> *Electronic Tariff Filings*, Order No. 714, FERC Stats. & Regs. ¶ 31,276 (2008).

**UNITED STATES OF AMERICA  
FEDERAL ENERGY REGULATORY COMMISSION**

**CENTRA PIPELINES MINNESOTA INC.**

**Docket No. RP15-\_\_\_\_-000**

**NOTICE OF PETITION FOR APPROVAL OF SETTLEMENT**

**(\_\_\_\_\_, 2015)**

Take notice that on September 18, 2015, Petitioner Centra Pipelines Minnesota Inc. (CPMI) tendered for filing a "Petition for Approval of Settlement," accompanied by a proposed Stipulation and Settlement Agreement (Settlement Agreement), to which a pro forma eTariff section No. 4 is appended.

CPMI states that copies of its filing have been served upon all affected customers of CPMI and interested state commissions.

Any person desiring to intervene or to protest this filing must file in accordance with Rules 211 and 214 of the Commission's Rules of Practice and Procedure (18 CFR 385.211 and 385.214). Protests will be considered by the Commission in determining the appropriate action to be taken, but will not serve to make protestants parties to the proceeding. Any person wishing to become a party must file a notice of intervention or motion to intervene, as appropriate. Such notices, motions, or protests must be filed on or before the date as indicated below. Anyone filing an intervention or protest must serve a copy of that document on the Petitioner. Anyone filing an intervention or protest on or before the intervention or protest date need not serve motions to intervene or protests on persons other than the Petitioner.

The Commission encourages electronic submission of protests and interventions in lieu of paper using the "eFiling" link at <http://www.ferc.gov>. Persons unable to file electronically should submit an original and 5 copies of the protest or intervention to the Federal Energy Regulatory Commission, 888 First Street, N.E., Washington, D.C. 20426.

This filing is accessible on-line at <http://www.ferc.gov>, using the "eLibrary" link and is available for review in the Commission's Public Reference Room in Washington, D.C. There is an "eSubscription" link on the web site that enables subscribers to receive email notification when a document is added to a subscribed docket(s). For assistance with any FERC Online service, please email [FEROnlineSupport@ferc.gov](mailto:FEROnlineSupport@ferc.gov), or call (866) 208-3676 (toll free). For TTY, call (202) 502-8659.

Comment Date: 5:00 pm Eastern Time September 30, 2015

Kimberly D Bose

Secretary

### CERTIFICATE OF SERVICE

I hereby certify that, in accordance with Sections 154.2 and 154.208 of FERC Regulations, the foregoing filing by Centra Pipelines Minnesota Inc. has been served this 18<sup>th</sup> day of September, 2015 on all affected customers and interested state commissions as follows:

Mr. Jason Gillett  
[Jgillett@uniongas.com](mailto:Jgillett@uniongas.com)  
Union Gas Limited  
50 Keil Drive  
Chatham, Ontario  
CANADA N7M 5M1

Mr. Patrick Loupin  
[PatrickLoupin@BoisePaper.com](mailto:PatrickLoupin@BoisePaper.com)  
Boise White Paper LLC  
1111 West Jefferson Street  
Boise, ID 83728-0001

Mr. Shawn Gillespie  
[SLGillespie@integrysgroup.com](mailto:SLGillespie@integrysgroup.com)  
Minnesota Energy Resources Corporation  
1412 Howard Street  
Omaha, NE 68102

Mr. Robert Harding  
[Robert.Harding@state.mn.us](mailto:Robert.Harding@state.mn.us)  
Minnesota Public Utilities Commission  
121 7th Place E., Suite 350  
Saint Paul, MN 55101-2147

/s/ Joan M. Darby  
Joan M. Darby



**Telephone: 519-652-5357**  
**Facsimile: 519-652-0428**

September 18, 2015

**Electronic Filing**

National Energy Board  
444 – Seventh Avenue S.W.  
Calgary, Alberta  
T2P OX8

**Attention: Ms. Sheri Young**  
**Secretary of the Board**

Dear Ms. Young:

***Re: Centra Transmission Holdings, Inc.,  
Section 60 Application, For Tolls for Gas Transportation,  
Effective November 1<sup>st</sup>, 2015***

Enclosed is the above referenced Tolls and Tariff for Centra Transmission Holdings, Inc. herein referred to as CTHI.

By copy of this filing, CTHI is providing each shipper on the pipeline with a copy of this filing.

Yours truly

***Centra Transmission Holdings, Inc.***  
Joe Brophy  
Vice President & General Manager

Enclosure  
c.c.: Centra Transmission Holdings, Inc. Shippers

## **NATIONAL ENERGY BOARD**

**IN THE MATTER OF** the *National Energy Board Act*, R.S.C. 1985, c.N-7, as amended (the "Act") and the Regulations made thereunder;

**AND IN THE MATTER OF** a filing by Centra Transmission Holdings, Inc. pursuant to s. 60(1)(a) of the Act with respect to the tolls and tariffs of the pipeline.

### **CENTRA TRANSMISSION HOLDINGS, INC.**

#### **SECTION 60 NEB ACT APPLICATION**

Centra Transmission Holdings, Inc. ("CTHI") hereby files, pursuant to Section 60(1)(a) of the National Energy Board Act (the "Act"), the attached updated transportation toll which is to be effective November 1, 2015.

CTHI submits:

1. CTHI is a company within the meaning of the Act.
2. CTHI owns and operates pipeline facilities in the Provinces of Manitoba and Ontario.
3. CTHI is defined as a Group 2 company by the Memorandum of Guidance issued by the National Energy Board (the "Board") on December 6, 1995, and is not normally required to provide the detailed toll and financial information specified in Parts X and XI of the Board's Filing Requirements dated February 22, 1995.
4. CTHI last made substantial changes to its Transportation Toll effective January 1, 2012 pursuant to Board Order TG-007-2013.
5. Effective November 1, 2015, CTHI proposes to change the tolls charged for transportation service on in its pipeline system to reflect reduction in contract demand.

Therefore, CTHI files, pursuant to Section 60(1)(a) of the Act, amendments to the Centra Transmission Holdings, Inc. Transportation Tariff.

Concurrent with this filing, CTHI has provided each of its shippers with a copy of this submission including the updated Transportation Tariff effective November 1, 2015.



DATED at the City of London, in the Province of Ontario, this 15<sup>th</sup> day of September, 2015.

Respectfully submitted,

Original Executed by Joe Brophy

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All communications relative to this Application should be directed to:

Joe Brophy  
Vice President & General Manager  
Centra Transmission Holdings, Inc.  
2324 Main Street  
London, Ontario

**Centra Transmission Holdings Inc.**  
**Transportation Tolls**  
**November 1, 2015**  
**Proposed**

Particulars	Demand Toll November 1, 2015 (\$/10 <sup>3</sup> m <sup>3</sup> /Mo.)
Domestic	449.104
Export	451.489

**Centra Transmission Holdings Inc.**  
**Index to the**  
**Schedule of Proposed Transportation Tolls**  
*November 1, 2015*

Schedule	Description
1.0	Cost of Service
4.1	Determination of Allocation Units
4.2	Determination of Demand Rates
4.5	Comparison of Existing and Proposed Revenues

**Centra Transmission Holdings Inc.**  
**2015 Proposed Tolls: November 1st, 2015**

Cost of Service

Filed September 18, 2015

**Approved**  
**TG-007-2013**  
2012  
Year

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1	Operating Expenses	\$ 2,119,365
2	Depreciation Expense	484,761
3	Taxes other than Income Tax	715,208
4	Income Taxes	267,629
5	Return on Rate Base	<u>624,579</u>
6	Total Cost of Service	<u><u>\$ 4,211,542</u></u>

**Centra Transmission Holdings Inc.**  
**2015 Proposed Tolls: November 1st, 2015**

Schedule 4.1

Determination of Allocation Units

Filed September 18, 2015

		Contract Demand (10 <sup>3</sup> m <sup>3</sup> )	Mile Post	Demand Miles
1	Domestic Gas			
2	Manitoba Transport	152.10	60.09	9,140
3	Ontario Transport			
4	Rainy River	0.96	1.52	1
5	Barwick	0.13	29.46	4
6	Emo	0.76	36.78	28
7	Fort Frances	147.75	56.28	8,315
8	Total Domestic Transportation	301.70		17,488
9	Export Gas			
10	Manitoba Transport	626.05	60.09	37,619
11	Ontario Transport	597.72	58.13	34,745
12	Total Export Transportation	1,223.76		72,365
13	Total Allocation Units	1,525.46		89,853
14	Total Allocation Fixed Costs	\$ 4,211,542		
15	Cost per Allocation (\$/Demand Mile)	\$ 46.87		

**Centra Transmission Holdings Inc.**  
**2015 Proposed Tolls: November 1st, 2015**

Schedule 4.2

Determination of Demand Rates:

Filed September 18, 2015

	Allocation Units (Demand Miles)	Cost per Allocation Units (Demand Miles)	<b>APPROVED TG-007-2013</b> Allocated Costs (\$)	Annual Billing Units* (10 <sup>3</sup> m <sup>3</sup> )	Rate (\$/10 <sup>3</sup> m <sup>3</sup> )
1 Domestic Transportation					
2 Union, Centra Gas Manitoba	17,488	\$ 46.87	\$ 819,701	1,825	\$ 449.104
3 Export Transportation					
4 MERC, Boise White Paper	72,365	\$ 46.87	\$ 3,391,841	7,513	\$ 451.489
			<b>\$ 4,211,542</b>	<b>9,338</b>	

\* Annual Billing Units based on Shipper maximum daily quantity of 778.15 10<sup>3</sup>m<sup>3</sup> per day

**Centra Transmission Holdings Inc.**  
**2015 Proposed Tolls: November 1st, 2015**

Schedule 4.5

Comparison of approved and existing tolls

Filed September 18, 2015

	<b>Proposed Tolls</b>			<b>Existing Tolls</b>			<b>Variance</b>	
	Volume (10 <sup>3</sup> m <sup>3</sup> )	Rate	Amount	Volume (10 <sup>3</sup> m <sup>3</sup> )	Rate	Amount	Dollars	%
Domestic								
Demand	1,825	449.104	\$819,701	1,795	446.771	\$802,040	\$17,661	2%
Export								
Demand	7,513	451.489	\$3,391,841	7,649	445.769	\$3,409,502	(\$17,661)	-1%
Total								
Demand	9,338		\$4,211,542	9,444		\$4,211,542	(\$0)	0%
Total			<u>\$4,211,542</u>			<u>\$4,211,542</u>	<u>(\$0)</u>	0%

UNION GAS LIMITED

Answer to Interrogatory from  
Board Staff

Reference: Rate Order, Appendix H

- a) Please confirm that the language included in the rate schedules regarding the Union North East Zone Transportation Service (for example, Rate 01 rate schedule – paragraph 2 of part b) was previously approved by the OEB.

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**Response:**

- a) Confirmed. The Board approved the rate schedule changes for the new transportation service option for the Union North East Zone as part of the Dawn Reference Price and North T-Service (EB-2015-0181) Decision and Order dated March 17, 2016. The rate schedules, including the approved Union North transportation service option changes, were provided at EB-2015-0181, Decision and Order, Schedule B.



UNION GAS LIMITED

Answer to Interrogatory from  
Board Staff

Reference: Exhibit A, Tab 1, p. 10

Preamble: Union noted that, consistent with 2016 rates, it adjusted Rate M1 and Rate 01 distribution customer-related costs on a revenue neutral basis by adjusting the 2017 customer-related cost variance over all of the delivery volumes within each of the M1 and 01 rate classes.

a) Please provide rationale for continuing to use this approach for 2017 rates.

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**Response:**

a) In Union's 2016 Rates (EB-2015-0116) Settlement Proposal (the "Settlement"), parties agreed it was appropriate to revise the approach used to adjust small volume general service Rate M1 and Rate 01 distribution customer-related costs during the 2014-2018 Incentive Regulation term on a revenue neutral basis by adjusting the customer-related cost variance over all of the delivery volumes within each of the Rate M1 and Rate 01 rate classes. Parties agreed that this revised approach was appropriate as it maintained the declining block structure.

Consistent with the Settlement, Union adjusted the 2017 customer-related cost variance over all delivery volumes within each of the Rate M1 and Rate 01 rate classes as the adjustment was necessary to maintain the declining block structure of these rates in 2017.

UNION GAS LIMITED

Answer to Interrogatory from  
Board Staff

Reference: Exhibit A, Tab 1, pp. 10-11, Exhibit A, Tab 2, Working Papers, Schedule 20

Preamble: Union stated that the Parkway Delivery Commitment Incentive (PDCI) credit will be paid monthly to sales service customers by way of the SPGVA rather than including the PDCI credit in the gas supply transportation rate as was established in the Settlement Agreement.

- a) Please confirm that there have been no changes to the methodology for setting the PDCI credit and allocating the PDCI costs to rate classes established in the Parkway Delivery Obligation (PDO) Settlement Agreement.
  - b) Please confirm that the only change to the methodology is the manner in which the PDCI credit will be paid to sales service customers.
    - i. Please confirm that this change is only being made as a result of the elimination of the South transportation rate (arising from the Dawn Reference Price proceeding).
    - ii. Please advise whether this change has any impact on the actual PDCI costs or the allocation of the PDCI costs.
  - c) Please explain all of the volumes used in the PDO Demand Cost Calculation at Working Papers / Schedule 20 / p. 2.
  - d) Please provide the schedule referenced in Note 1 at Working Papers / Schedule 20 / p. 2.
  - e) Please explain the volume used in the Sales Service PDCI Cost Calculation at Working Papers / Schedule 20 / p. 5.
  - f) Please provide the schedule referenced in Note 4 at Working Papers / Schedule 20 / p. 5.
  - g) Please explain the volume used in the Direct Purchase PDCI Cost Calculation at Working Papers / Schedule 20 / p. 6.
  - h) Please explain why the total Dawn-Parkway Demand Costs (19 TJ) set out at Column C / Line 15 at Working Papers / Schedule 20 / p. 2 (\$758,000) is not the same as the Sales Service Demand Cost (19 TJ) set out Column B / Line 15 at Working Papers / Schedule 20 / p. 5 (\$777,000).
-

**Response:**

- a) Confirmed.
- b) i. Confirmed.
  - ii. The use of the SPGVA to credit the PDCI to sales service customers has no impact on the actual PDCI costs or the allocation of PDCI costs.
- c) The 212 TJ/d PDO reduction referenced in Rate Order, Working Paper, Schedule 20, p. 2, column (e) represents the PDO reduction that was effective April 1, 2014. There have been no further reductions in the PDO since April 1, 2014. The 212 TJ/d PDO reduction was facilitated through 146 TJ/d of temporarily available excess Dawn to Parkway capacity (column (b)) and 66 TJ/d of M12 capacity that was turned back by in-franchise customers (columns (c) + (d)). The 48 TJ/d referenced in column (d) and column (f) relates to the M12 capacity that was turned back by TCE Halton Hills. The turn back of 48 TJ/d of M12 by TCE Halton Hills resulted in an increase to its Rate T2 billing contract demand which resulted in a revenue credit to other Union South in-franchise rate classes responsible for the cost of the PDO reduction.
- d) Please see Attachment 1 for EB-2011-0210, Exhibit G3, Tab 5, Schedule 23, p.7, updated for the Board Decision.
- e) The PDCI credit provided to sales service customers of 19 TJ/d represents the TransCanada transportation capacity held within Union's gas supply portfolio to serve the Union CDA. The 19 TJ/d is included in Union's forecast of PDO quantities provided at Exhibit A, Tab 2, Attachment 1, column (j), line 24.
- f) Please see Attachment 2 for EB-2011-0210, Exhibit G3, Tab 5, Schedule 21, pp. 13 and 14, filed on April 30, 2014.
- g) The PDCI credit provided to direct purchase customers of 285 TJ/d represents the remaining obligated DCQ deliveries at Parkway. The 285 TJ/d is calculated as the 376 TJ/d of remaining PDO less the 84 TJ/d of remaining PDO for TCE Halton Hills, per the PDO forecast provided at Exhibit A, Tab 2, Attachment 1, column (j), lines 9 and 22, respectively, less a reduction of 7 TJ/d to reflect an annualized PDO due to seasonal DCQ differences.
- h) The difference in Dawn-Parkway demand costs is due to rounding of the PDO volumes. The PDO reduction of 19 TJ/d per Rate Order, Working Papers, Schedule 20, p. 2 is rounded from 18.572 TJ/d and the sales service remaining PDO is based on 19.000 TJ/d per Rate Order, Working Papers, Schedule 20, p. 5.

UNION GAS LIMITED  
Blended Allocator Detail Report - Dawn-Trafalgar Transmission  
Year Ending December 31, 2013

Line			Gen. Service	Gen. Service	Firm	Interruptible	Interruptible	Special	Special	Large	Small	Storage &	Storage &	Wholesale
No.	Particulars	Total	Small Volume	Large Volume	Contract	Contract-	Contract-	Large Volume	Large Volume	Wholesale	Wholesale	Transportation	Transportation	Storage &
			M1	M2	M4	M5	M5	Contract -	Contract -	Service	Service	Service -	Service -	Transportation
								Firm	Interruptible			Firm	Interruptible	Service
	<u>Dawn-Trafalgar Demand Allocator</u>													
1	Dawn-Trafalgar Demand (10 <sup>6</sup> m <sup>3</sup> /day)	31,737	-----					3,588	-----					
2	Infranchise Peak Day Demand (10 <sup>3</sup> m <sup>3</sup> /day)	43,624	22,132	7,435	2,162	20		997		356	11	7,999		2,511
3	North allocated on XSPK&AVG	8,685												
	Infranchise Dawn -Trafalgar Demand													
4	Allocated on Infranchise Peak Day Demand (10 <sup>6</sup> m <sup>3</sup> /day)	5,180	1,820	612	178	2	0	82	0	29	1	658	0	207
5	<b>DTTRANS</b> (10 <sup>6</sup> m <sup>3</sup> /day)	31,737	1,820	612	178	2	0	82	0	29	1	658	0	207
	<u>Dawn Compression Allocator</u>													
5	Dawn Compression (10 <sup>3</sup> m <sup>3</sup> /day)	150,183	-----					26,186	-----					
6	OSE load not requiring Dawn Compression	-1100	-----					-192	-----					
7	Dawn Compression excl. OSE (10 <sup>3</sup> m <sup>3</sup> /day)	149,083	-----					25,994	-----					
8	Infranchise Peak Day Demand (10 <sup>3</sup> m <sup>3</sup> /day)	43,624	22,132	7,435	2,162	20	0	997	0	356	11	7,999	0	2,511
9	North allocated on XSPK&AVG													
10	Infranchise Dawn Compression Allocation (10 <sup>3</sup> m <sup>3</sup> /day)	32,899	13,188	4,431	1,288	12	0	594	0	212	7	4,766	0	1,496
11	<b>DAWNCOMP</b> (10 <sup>3</sup> m <sup>3</sup> /day)	149,083	13,188	4,431	1,288	12	0	594	0	212	7	4,766	0	1,496

UNION GAS LIMITED  
Fully Allocated Cost of Service Study for 2013  
Allocation Factors  
(\$000's)

Allocation Factor	Total	Gen. Service Small Volume M1	Gen. Service Large Volume M2	Firm Contract M4	Interruptible Contract - Firm M5	Interruptible Contract - Interruptible M5	Special Large Volume Contract Firm M7	Contract - Interruptible M7	Large Wholesale Service M9	Small Wholesale Service M10
S_W_INFRUELVOL	5,124,561	1,115,690 21.77%	330,312 6.45%	106,003 2.07%	9,884 0.19%	312,501 6.10%	24,164 0.47%	4,655 0.09%	0 0.00%	0 0.00%
S_E_INFRUELVOL	5,135,803	1,823,853 35.51%	645,259 12.56%	294,126 5.73%	7,501 0.15%	203,891 3.97%	118,324 2.30%	0 0.00%	60,750 1.18%	189 0.00%
S_INFUELVOL	10,260,364	2,939,543 28.65%	975,571 9.51%	400,129 3.90%	17,385 0.17%	516,392 5.03%	142,488 1.39%	4,655 0.05%	60,750 0.59%	189 0.00%
M16C1FUEL		0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
SERVREPCOSTS	1,443,503	1,350,119 93.53%	31,837 2.21%	3,921 0.27%	35 0.00%	4,254 0.29%	4,846 0.34%	613 0.04%	0 0.00%	1 0.00%
STATIONREPCOSTS	818,832	724,202 88.44%	40,012 4.89%	8,319 1.02%	125 0.02%	9,137 1.12%	3,561 0.43%	547 0.07%	633 0.08%	94 0.01%
S_AVEGUST	1,066,014	1,058,900 99.33%	6,788 0.64%	115 0.01%	31 0.00%	112 0.01%	2 0.00%	2 0.00%	3 0.00%	2 0.00%
BDEBTDIST	2,791	1,542 55.23%	246 8.80%	57 2.03%	15 0.55%	55 1.98%	1 0.04%	1 0.04%	1 0.05%	1 0.03%
BDEBTOTHSUP	1,555	680 43.77%	608 39.14%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
S_SERVICECALLTIME	3,122,732	3,053,040 97.77%	69,691 2.23%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
S_METERCALLTIME	5,784,603	5,666,690 97.96%	117,913 2.04%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
N_SERVICECALLTIME	969,074	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
N_METERCALLTIME	1,789,415	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0 0.00%
LRGINDBILL	360	0.33%	52 14.35%	60 16.67%	2 0.54%	58 16.02%	3 0.75%	0 0.02%	1 0.33%	1 0.22%
DCUSTSALEOTHER	354	73 20.50%	50 14.05%	42 11.74%	10 2.81%	36 10.22%	1 0.18%	2 0.50%	0 0.00%	1 0.41%
GSBENEFITSDP	1,067	237 22.21%	4 0.33%	143 13.44%	41 3.87%	149 14.01%	3 0.26%	3 0.26%	4 0.39%	1 0.10%
GSADMINDIRECT	208	18 8.44%	0 0.13%	29 13.88%	8 4.00%	30 14.47%	1 0.27%	1 0.27%	1 0.40%	0 0.10%
GSGO&EDIRECT	1,283	260 20.23%	4 0.32%	127 9.92%	37 2.86%	133 10.34%	2 0.19%	2 0.19%	4 0.29%	1 0.07%

UNION GAS LIMITED  
Fully Allocated Cost of Service Study for 2013  
Allocation Factors  
(\$000's)

Allocation Factor	Total	Transportation Service - Firm T1	Transportation Service - Interruptible T1	Transportation Service - Firm T2	Transportation Service - Interruptible T2	Wholesale Storage Transportation Service T3	Excess Utility Storage Space	Firm Transportation Service C1	Interruptible Trans. Service & Exchanges C1	Dawn-Trafalgar Service M12	Local Production M13	Storage Transportation Service M16
S_W_INFREFUELVOL	5,124,561	205,494 4.01%	34,734 0.68%	2,878,457 56.17%	102,566 2.00%	0	0	0	0	0	0	0
S_E_INFREFUELVOL	5,135,803	267,950 5.22%	28,552 0.56%	1,380,265 26.88%	32,431 0.63%	272,712 5.31%	0	0	0	0	0	0
S_INFREFUELVOL	10,260,364	473,443 4.61%	63,286 0.62%	4,258,722 41.51%	135,097 1.32%	272,712 2.66%	0	0	0	0	0	0
M16C1FUEL	355	0	0	0	0	0	0	27.63%	201	0	0	56
SERVREPCOSTS	1,443,503	2,593 0.18%	411 0.03%	36,720 2.54%	8,153 0.56%	0	0	0	0	0	0	0
STATIONREPCOSTS	818,832	3,854 0.47%	1,669 0.20%	20,141 2.46%	4,071 0.50%	2,467 0.30%	0	0	0	0	0	0
S_AVEGUST	1,066,014	32 0.00%	7 0.00%	5 0.00%	15 0.00%	1	0	0	0	0	0	0
BDEBTDIST	2,791	16 0.57%	3 0.12%	2 0.09%	7 0.27%	0	0	0	0	0	0	0
BDEBTOHSUP	1,555	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0	0	0	0	0	0	0
S_SERVICECALLTIME	3,122,732	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0	0	0	0	0	0	0
S_METERCALLTIME	5,784,603	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0	0	0	0	0	0	0
N_SERVICECALLTIME	969,074	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0	0	0	0	0	0	0
N_METERCALLTIME	1,789,415	0 0.00%	0 0.00%	0 0.00%	0 0.00%	0	0	0	0	0	0	0
LRGINDRILLS	360	5 1.37%	1 0.18%	44 12.30%	1 0.39%	1	0	0	0	0	0	0
DCUSTSALEOTHER	354	18 5.16%	8 2.24%	4 1.10%	21 5.85%	0	0	0	0	0	0	0
GSBENEFITSDP	1,067	44 4.15%	10 0.91%	7 0.65%	21 1.95%	1	0	0	0	0	0	0
GSADMINIDIRECT	208	9 4.29%	2 0.94%	1 0.67%	4 2.01%	0	0	0	0	0	0	0
GSGO&EDIRECT	1,283	39 3.06%	9 0.67%	6 0.48%	18 1.44%	1	0	0	0	0	0	0

UNION GAS LIMITED

Answer to Interrogatory from  
Board Staff

Reference: Rate Order, Appendix F, February 9, 2016 OEB Letter – Revisions to the Ontario Energy Board Cost Assessment Model

Preamble: The description for the Greenhouse Gas Emissions Impact Deferral Account states the following:

“To record, as a debit (credit) in Deferral Account No. 179-152, the impacts of provincial and federal regulations related to greenhouse gas emission requirements.”

- a) Does Union agree that the description for the Greenhouse Gas Emissions Impact Deferral Account should be updated to better reflect its purpose (i.e. to record the administrative costs associated with Cap-and-Trade)? If so, please propose revised language. If not, please explain.
- b) Please provide the amount associated with Union’s Cap-and-Trade related administrative costs that have been recorded in the Greenhouse Gas Emissions Impact Deferral Account to date.
- c) Please confirm that the following accounts have previously been approved by the OEB. Please provide a reference to that approval.
  - Transportation Tolls and Fuel – Union North West Operations Area (Account No. 179-145)
  - Transportation Tolls and Fuel – Union North East Operations Area (Account No. 179-146)
  - Union North West Purchase Gas Variance Account (Account No. 179-147)
  - Union North East Purchase Gas Variance Account (Account No. 179-148)
  - Base Service North T-Service TransCanada Capacity Deferral Account (Account No. 179-153)
- d) Please advise whether the existing Transportation Tolls and Fuel – Northern and Eastern Operations Area account (Account No. 179-100) and the existing North Purchase Gas Variance Account (Account No. 179-105) are still required. Please explain.
- e) Please advise whether the description for the OEB Cost Assessment Variance Account (Account No. 179-151) was previously approved by the OEB.
- f) The February 9, 2016 letter of the OEB in relation to electricity distributors states that it has established a Cost Assessment Variance Account to record any material differences between

OEB cost assessments currently built into rates, and cost assessments that will result from the application of the new cost assessment model effective April 1, 2016. Please advise whether Union proposes a materiality threshold applicable to the OEB Cost Assessment Variance Account (Account No. 179-151).

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**Response:**

- a) Union will update the wording of the Greenhouse Gas Emissions Impact Deferral Account in its 2017 Cap-and-Trade Compliance Plan proceeding (EB-2016-0296).
- b) The amount recorded in the Greenhouse Gas Emissions Impact Deferral Account as at October 31, 2016 is \$1.3 million.
- c) Confirmed.

The following accounts were approved in EB-2015-0181, Decision and Order/Procedural Order 2 dated January 7, 2016, p. 8:

- Transportation Tolls and Fuel – Union North West Operations Area (Account No. 179-145)
- Transportation Tolls and Fuel – Union North East Operations Area (Account No. 179-146)
- Union North West Purchase Gas Variance Account (Account No. 179-147)
- Union North East Purchase Gas Variance Account (Account No. 179-148)

The following account was approved in EB-2015-0181, Decision and Order dated March 17, 2016, p. 8:

- Base Service North T-Service TransCanada Capacity Deferral Account (Account No. 179-153)
- d) The existing Transportation Tolls and Fuel – Northern and Eastern Operations Area (Account No. 179-100) and the existing North Purchase Gas Variance Account (Account No. 179-105) are still required to capture variances in gas costs until the end of December 2016. The variances that cumulate to the end of 2016 and the associated prospective rate adjustments will be filed as part of the April 2017 QRAM. The accounts will remain open until the balances in the accounts are disposed of through prospective rate adjustments for the period April 1, 2017 to March 31, 2018.

As of January 1, 2017, any gas cost variances for Union North East and Union North West will be captured in the new gas cost deferral accounts reference in part c) above.



- e) In its Letter of Notice dated February 9, 2016, the Board communicated changes to the Cost Assessment Model that would result in material shifts in the allocation of costs to align with the Board's mandate. As a result, the Board directed Union to establish an OEB Cost Assessment Variance Account to record any material differences between the Board's cost assessment currently built into rates, and the cost assessments that will result from the application of the new cost assessment model effective April 1, 2016. Union filed its final OEB Cost Assessment Variance Account (Account No. 179-151) Accounting Order with the Board on March 8, 2016. The Board did not respond with any concerns regarding Union's description in its final Accounting Order.
- f) Union is not proposing a materiality threshold. In Union's view the variances are material.

UNION GAS LIMITED

Answer to Interrogatory from  
Board Staff

Reference: Exhibit A, Tab 1, p. 8, Working Papers, Schedule 12

Preamble: Union set out its calculation of the 2017 Normalized Average Consumption (NAC) target percentage change in Working Papers / Schedule 12. The 2017 NAC target change is: -5.7% for Rate 01; -7.3% for Rate 10; -4.0% for rate M1; and -3.7% for Rate M2.

Please discuss the main drivers of the large change in NAC. Please provide specific details for each rate class.

---

**Response:**

The four primary factors driving the NAC variance include:

- Estimated pre-audit DSM savings;
- Leap year adjustment;
- Change in weather normal; and,
- Change in customer behavior.

Per Exhibit A, Tab 1, p. 8, for 2017, the NAC adjustment is the variance between 2014 Actual NAC and 2015 Actual NAC. Please see Rate Order, Working Papers, Schedule 12 for the calculation of 2017 NAC target percentage change by general service rate class.

Please see Table 1 below for the breakdown of Rate Order, Working Papers, Schedule 12 by drivers and general service rate class.

Please see Tables 2 and 3 below for the actual weather data for 2014 and 2015 and weather normal data for 2016 and 2017.

The year-over-year consumption change (NAC variance) is impacted by the continued presence of energy efficiency related forces (i.e. improved building code in new home and building construction, furnace replacement, etc.) and the impact of DSM programs and energy savings initiatives conducted by the customers, and the customer behavior and comfort desires in response to extreme change in weather conditions. For Union South, the 2015 actual weather was 9.2% warmer than the 2014 actual weather and 8.4% warmer in Union North (please see Table 2 for the percent details).

Table 1  
Total 2015 to 2014 NAC Variance Breakdown

Particulars (m <sup>3</sup> )	<b>NAC Variance<sup>1</sup></b>	Estimated Pre-audit Average DSM Volume Saving per Customer	Adjustment for Leap Year	Variance due to Weather Normal	Variance due to Customer Behavior
	(a)*	(b)	(c)	(d)	(e) = (a-b-c-d)
Rate 01	<b>-171</b>	-5	-16	-4	-145
Rate 10	<b>-12,885</b>	-632	-849	-281	-11,123
Rate M1	<b>-114</b>	-8	-16	2	-91
Rate M2	<b>-6,396</b>	-1,682	-812	103	-4,006

\*Differences due to rounding.

Table 2  
Actual Weather – Heating Degree Days

	Actual 2014	Actual 2015	% Change
Union South	4,221	3,834	-9.2%
Union North	5,361	4,912	-8.4%
<b>Union Merged</b>	<b>4,506</b>	<b>4,104</b>	<b>-8.9%</b>

Table 3  
Weather Normal – Heating Degree Days

	Normal 2016	Normal 2017
Union South	3,780	3,782
Union North	4,930	4,918
<b>Union Merged</b>	<b>4,068</b>	<b>4,066</b>

<sup>1</sup> Rate Order, Working Papers, Schedule 12, column (c).

UNION GAS LIMITED

Answer to Interrogatory from  
Board Staff

Reference: Working Papers, Schedule 2

- a) Please provide the amounts excluded, for the purposes of the 2017 Price Cap Adjustment, from the 2016 Current Approved Revenue (at Line 1 of Workings Papers / Schedule 2) for the Gas Supply Admin Charge Revenue, Rate C1 Market Based Storage Services, Short-Term Transportation, Exchanges and Other Transactional Revenues. Please explain the excluded amounts.
- 

**Response:**

- a) For the purposes of calculating the 2017 price cap index, Union excluded \$6.749 million of gas supply administration charge revenue and \$37.483 million of Rate C1 revenue associated with Short-Term Storage, Short-Term Transportation, Exchanges and other transactional services.

Union excludes the gas supply administration charge revenue as this charge is included in the gas supply commodity rate, which is primarily composed of gas costs, and has not been subject to escalation.

Union excludes the Rate C1 revenue associated with Short-Term Storage, Short-Term Transportation, Exchanges and other transactional services as the rates are negotiated and not set through Union's rate setting process.

The exclusions are consistent with Union's 2014-2018 Incentive Regulation (EB-2013-0202) Settlement Agreement, Exhibit A, Tab 2, Appendix I, Working Papers, Schedule 2. Union also excluded these amounts in the calculation of the price cap index for each of 2014, 2015 and 2016.

UNION GAS LIMITED

Answer to Interrogatory from  
Board Staff

Reference: Exhibit A, Tab 3, p. 10

Preamble: Union noted that its transportation contract with the NEXUS pipeline is effective November 1, 2017.

Please provide the latest information regarding the status of the NEXUS pipeline and the expected in-service date.

---

**Response:**

Union has received the following updates related to the NEXUS pipeline:

1. On May 17, 2016, Federal Energy Regulatory Commission ("FERC") issued its Notice of Schedule for Environmental Review of the NEXUS Gas Transmission and Texas Eastern Appalachian Lease Projects;
2. On July 8, 2016, FERC issued its Draft Environmental Impact Statement ("DEIS") for the NEXUS Gas Transmission Project and the Texas Eastern Appalachian Lease Project;
3. On October 21, 2016, NEXUS filed an answer to additional comments filed in its certificate application docket for the NEXUS Gas Transmission Project;
4. NEXUS continues to work with FERC staff on the process for release of the Environmental Impact Statement ("EIS") and the NEXUS Gas Transmission Project approval; and,
5. NEXUS is on target for November 2017 in-service.

UNION GAS LIMITED

Answer to Interrogatory from  
Board Staff

Reference: Exhibit A, Tab 4, pp. 4, 6, 11

Preamble: Union noted that currently customers may request a reduction to their obligation DCQ to match consumption by nominating a suspension of their obligated DCQ. A DCQ suspension is considered interruptible.

Union proposed to the customer focus group an annual Storage Space entitlement of Firm CD x 9, which was considered acceptable by the focus group. Union noted that any excess storage space not contracted for by customers electing the proposed CMS becomes Excess Utility Storage Space and is treated accordingly.

Union also noted that the proposed CMS design meets the following design criteria:

- No impact to the amount of physical assets used by the Rate T2 rate class during the period of the current IRM.
  - Union remains financially neutral regardless of which customers elect the new service.
  - No financial impact to other rate classes during the period of the current IRM.
  - The PDO reductions are maintained as per the EB-2013-0365 Settlement Agreement.
- a) Please further explain a DCQ suspension (e.g. how is it initiated, does Union need to approve the suspension, length of time that a suspension can occur for, etc.).
- b) Please provide: (i) the number of DCQ suspension requests received in 2015 and 2016 (to date); (ii) the number of approved DCQ suspension requests in 2015 and 2016 (to date); and (iii) the number of DCQ suspensions that were granted and later interrupted by Union in 2015 and 2016 (to date).
- c) Please provide an estimate of the number of customers that will likely take the proposed CMS.
- d) Please discuss whether this new service will likely result in additional Excess Utility Storage Space and provide rationale.

- e) Please further explain how Union stays financially neutral and how there is no financial impact on other rate classes during the IRM term regardless of which customers elect the proposed CMS.
  - f) Please advise whether, at rebasing, the availability of the CMS for Rate T2 customers will likely impact the costs allocated to rate T2 and Union's other rate classes. Please explain.
- 

**Response:**

- a) Direct purchase customers with obligated deliveries of gas are required to deliver their obligated DCQ each day of the contract term. A suspension is a transaction whereby a customer delivers less than their obligated DCQ for a period of time.

Bundled T-service customers must seek authorization from Union in order to reduce their obligated deliveries. Union will authorize a suspension, via an Authorization Notice, provided the customer shows a need to shed gas in order to manage an excess position in their bundled T-service contract banked gas account balance. The transaction is requested in advance of the gas day and could be for durations ranging between one day and several months. Authorized suspensions are interruptible by Union through the daily nomination process based on operational conditions per Union's posted Priority of Service policy.

T-service (Rate T1/Rate T2/Rate T3) customers do not seek an Authorization Notice from Union for a suspension. Instead, these customers nominate suspensions as part of their daily nominations under this service. Customers could nominate suspensions several days in advance of a particular gas day. The suspension transaction is accepted if the nomination is scheduled by Union through the daily nomination process. The scheduling of the nomination is based on operational conditions per Union's posted Priority of Service policy.

The operational conditions that can impact the scheduling of a suspension are related to storage withdrawals at Dawn and/or transportation on the Dawn Parkway System. To the extent that nominated activity exceeds firm needs (e.g. cold weather during the winter), Union could curtail interruptible activity.

- b) At Exhibit A, Tab 4, p. 5, Union notes that it established a Customer Focus Group in 2014 based on requests from some Rate T2 customers to manage their supply to be consistent with their end-use consumption. Due to the operational circumstances during the cold winter of 2013/14, these customers were not allowed to suspend delivery of gas and were required to deliver their obligated supply. Unlike most other customers, these customers were consuming little or no gas on those days.

The following table summarizes the number of transactions requested, approved, and interrupted for T-service customers for the winters of 2013/14, 2014/15, and 2015/16. Please note that after a number of days where suspensions are not scheduled through the daily

nomination process, customers tend to reduce the number of suspension requests until Union's operational conditions change.

	<u>Winter T-service Suspensions</u>		
	<u>2013/14</u>	<u>2014/15</u>	<u>2015/16</u>
Number Requested	1,337	1,523	1,955
Number Granted	1,283	1,504	1,955
Number Interrupted	54	19	0

- c) Union does not have a forecast of the number of customers that will move to the proposed CMS Rate T2 service or the associated revenue. Five customers participated in the focus group and twenty customers are eligible for the service. To date, one customer has expressed its intention to Union to move to the CMS service option.

Union expects the CMS option will likely result in less storage space contracted by a Rate T2 customer than under a customer's existing Rate T2 service, resulting in additional Excess Utility Storage Space.

Currently, changes to Rate T2 customers' contract parameters may result in a change to their cost-based storage parameters impacting the amount of Excess Utility Storage Space available for sale by Union. A customer election to take the proposed CMS option would be treated in the same manner as other customer contract changes are treated.

As outlined at Exhibit A, Tab 4, Table 1, Union did examine a scenario whereby a select group of customers chose CMS and the result was a higher requirement for storage space than under the current Rate T2 service. However, it is not Union's expectation that this scenario is likely because of the requirements of the CMS option to actively manage daily gas supply, storage and balancing activities.

- d) and e) For customers that elect the CMS option, the storage demand-related revenue may change in two ways:

1. Demand charges for injection/withdrawal rights. While the customer specific contracted quantities of firm, cost-based injection/withdrawal rights may change with the CMS option, the underpinning assets Union sets aside to provide the service do not change. To maintain financial neutrality for the customer and Union during Union's IRM term, the CMS customer will be invoiced for demand charges based on its new contracted injection/withdrawal rights and the Monthly Billing Adjustment, which captures the



revenue difference in firm, cost-based Annual Firm Injection/Withdrawal rights. Injection/Withdrawals associated with the Daily Variance Account are interruptible and will be invoiced on a per use basis at the existing Authorized Overrun rate per Exhibit A, Tab 4, Table 2. The revenue associated with the Daily Variance Account injections/withdrawals has not been included. Union anticipates these quantities to be minimal as Daily Variance Account injections/withdrawals reflect small daily differences between supply and consumption.

2. Demand charges for storage space. CMS customers will likely elect a different (likely lower) quantity of storage space. A decrease in the customer's storage space will increase the amount of Excess Utility Storage Space available to sell short-term, consistent with other changes to in-franchise requirements for storage space. Union's revenue will decrease by the reduction in firm demand charges for storage space but can be offset by increased revenue opportunities associated with the 10% shareholder portion from the sale of Excess Utility Storage Space. The other 90% of the sale of Excess Utility Storage Space is included in the Short Term Storage and Other Balancing Services deferral account and disposed of through Union's annual deferral disposition proceeding.

Accordingly, Union will maintain financial neutrality associated with the demand charges for injection/withdrawal rights but will treat storage space changes in a similar manner to other storage space contracting changes during the IRM term.

There are no financial impacts to other rate classes during the current IRM term, as the CMS service option uses the existing Rate T2 storage rates.

- f) As part of rebasing, Union will update its cost allocation study based on a forecast of 2019 customer activity and design day requirements. To the extent there are changes to the Rate T2 forecasted use of storage on design day as a result of the CMS option, those changes would be included in Union's next rebasing proceeding.

Based on the response provided at d) and e) above, Union anticipates that the design day requirement for Rate T2 storage deliverability would not substantially change as a result of the CMS option.

Union also anticipates that the Rate T2 storage space would likely decrease due to the requirement of the service to better align daily supply with consumption. Should there be less forecasted Rate T2 storage space at 2019, the amount of excess utility storage space available to sell short-term would increase, of which 90% of the short-term storage revenue would be credited to in-franchise customers based on the existing Board-approved rate design.

UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association (“BOMA”)

Reference: General

- a) Please provide, on a percentage and absolute basis, the increase in the 2017 delivery rate for each rate class in Union North and Union South, relative to 2016 delivery rates (both in-franchise and ex-franchise).
  - b) Please provide a summary of any changes in Terms and Conditions of Service for each of the rates.
  - c) Please provide a summary of any changes in eligibility criteria for each of the rates.
- 

**Response:**

- a) Please see Rate Order, Working Papers, Schedule 6 for the change to the average delivery rate for each Union North and Union South in-franchise rate class, relative to current approved rates. Please see Attachment 1 for the change to ex-franchise transportation rates.
- b) Union updated the General Terms and Conditions (“GT&C”), which are applicable to all in-franchise contracts, and updated Service Terms and Conditions associated with its Union North distribution service effective April 1, 2016. These changes included:

GT&C

- Reflected changes to North American Energy Standards Board (“NAESB”) nomination cycles.
- Transfer and clean-up of overrun language from the Union North distribution Service Terms and Conditions.
- Other wording changes to provide clarity.

Union North Distribution Service Terms and Conditions

- Updated the notice requirement for renewal/termination of TransCanada Pipelines’ capacity temporary assignments to be consistent with TransCanada Pipelines’ notice requirements.
- Transfer of overrun language to the GT&C.
- Clarity with respect to the operation of the Customer Balancing Service.
- Clarity with respect to measurement of compliance with minimum annual volume contract parameters resulting from interruption or force majeure.
- Other wording changes for clarity.

Union updated the GT&C and Service Terms and Conditions associated with its Union North Bundled T-service effective January 1, 2017 for the following:

GT&C

- Addition of a definition for a daily variance account.
- Change in gas purchase location for unauthorized gas supply by T-service customers.

Union North Bundled T-Service Terms and Conditions

- Changes resulting from the conversion of long-haul transportation contracts on TransCanada Pipelines from Empress to short-haul transportation contracts from Dawn including the introduction of a Dawn Daily Contract Quantity (“DCQ”) and a Dawn Reference Price.
- Removal of the requirement for customers to provide transportation fuel in kind.

There have been no changes to Union’s ex-franchise GT&Cs.

c) Union has made no changes to the eligibility criteria of its rate classes.

UNION GAS LIMITED  
Summary of 2017 Changes to Ex-franchise Transportation Rates

Line No.	Particulars (\$/GJ)	EB-2016-0247 Approved October 1, 2016 Rate (a)	Rate Change (b) = (c - a)	EB-2016-0245 Proposed January 1, 2017 Rate (c)	Percent Change (%) (d) = (b / a)
	<u>M12 Transportation Service</u>				
	<u>Firm transportation</u>				
	Monthly demand charges:				
1	Dawn to Kirkwall	2.421	0.444	2.865	18.3%
2	Dawn to Parkway	2.883	0.519	3.402	18.0%
3	Kirkwall to Parkway	0.462	0.075	0.537	16.2%
4	F24-T	0.069	0.001	0.070	1.4%
5	M12-X	3.602	0.637	4.239	17.7%
	<u>M13 Transportation of Locally Produced Gas</u>				
6	Monthly fixed charge per customer station	\$946.47	\$6.25	\$952.72	0.7%
7	Transmission commodity charge to Dawn	0.035	0.000	0.035	0.0%
	<u>M16 Storage Transportation Service</u>				
8	Monthly fixed charge per customer station	\$1,505.73	\$9.94	\$1,515.67	0.7%
	Monthly demand charges:				
9	East of Dawn	0.765	0.005	0.770	0.7%
10	West of Dawn	1.055	(0.010)	1.045	-0.9%
11	Transmission commodity charge to Dawn	0.035	0.000	0.035	0.0%
	<u>C1 - Cross Franchise Transportation Service</u>				
	<u>Transportation service</u>				
	Monthly demand charges:				
12	St. Clair / Bluewater & Dawn	1.055	(0.010)	1.045	-0.9%
13	Ojibway & Dawn	1.055	(0.010)	1.045	-0.9%
14	Parkway to Dawn	0.719	0.118	0.837	16.4%
15	Parkway to Kirkwall	0.719	0.118	0.837	16.4%
16	Kirkwall to Dawn	1.268	0.207	1.475	16.3%
17	Dawn to Kirkwall	2.421	0.444	2.865	18.3%
18	Dawn to Parkway	2.883	0.519	3.402	18.0%
19	Kirkwall to Parkway	0.462	0.075	0.537	16.2%
20	Dawn to Dawn-Vector	0.029	0.000	0.029	0.0%
21	Dawn to Dawn-TCPL	0.137	0.001	0.138	0.7%

Note:

(1) Rate Order, Appendix A, pp. 14-16.

UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association (“BOMA”)

Reference: Working Paper, Schedule 6, Page 2 of 4

- a) Please explain the relatively large rate increases for the M2 (13.7%), M4 (12.3%), M7 (13.5%), T1 (9.1%), T2 (14.8%), and T3 (32.1%). Please show the different drivers and the contribution to the rate increases of each driver.
  - b) What has been the cumulate increase in the rates, both in absolute and percentage terms, for each of the rate classes shown on Schedule 6, page 1 and 2 since the rates were first set in EB-2013-0202?
  - c) Please explain the reduction in the rate for each rate class for Union North customers, as set out at page 1 of 2.
- 

**Response:**

- a) The drivers contributing to the average unit rate changes for all rate classes can be found at Rate Order, Working Papers, Schedule 5.
- b) 2014 Rates (EB-2013-0365) was Union’s first rates application filed in accordance with the Board-approved EB-2013-0202 application and Settlement Agreement. Please see Attachment 1 for the change in 2017 rates relative to 2014 Board-approved rates (EB-2013-0365).
- c) The total average unit rate decrease for each Union North rate class is due to the Union North transportation and storage rate changes, as approved in the Dawn Reference Price and North T-Service proceeding (EB-2015-0181). The Board approved changes to Union North transportation and storage rates to reflect changes in the gas supply portfolio, including changes to the cost allocation methodology and rate design. The average net decrease to Union North transportation and storage rates is caused by lower transportation costs to serve the Union North East Zone from Dawn. This decrease in transportation costs is partly offset by an increase in the storage costs and an increase in the Union North East Zone commodity rate, which will updated to reflect a Dawn Reference Price as part of the QRAM process.

UNION GAS LIMITED

Union North

Percentage Change in Proposed 2017 Average Unit Price as Compared to 2014 Average Unit Price

Line No.	Particulars (cents/m <sup>3</sup> )	Rate Class	EB-2013-0365 Approved Rates (1) (cents / m <sup>3</sup> ) (a)	Excluding Customer-Related GHG Obligation		
				Proposed Rates (2) (cents / m <sup>3</sup> ) (b)	Rate Change (c) = (b-a)	Percent Change (3) (%) (d) = (c/a)
	Small Volume General Service	01				
1	Delivery		17.2900	17.7105	0.4205	2.4%
2	Gas Supply Transportation		5.3161	4.0529	(1.2632)	-23.8%
3	Storage		3.0467	5.3035	2.2568	74.1%
4	Total		<u>25.6528</u>	<u>27.0669</u>	<u>1.4141</u>	<u>5.5%</u>
	Large Volume General Service	10				
5	Delivery		5.7533	6.2564	0.5031	8.7%
6	Gas Supply Transportation		4.9297	3.4866	(1.4431)	-29.3%
7	Storage		2.1819	3.9285	1.7466	80.0%
8	Total		<u>12.8649</u>	<u>13.6715</u>	<u>0.8066</u>	<u>6.3%</u>
	Medium Volume Firm Service	20				
9	Delivery		2.1559	2.2638	0.1079	5.0%
10	Gas Supply Transportation		6.5191	6.4904	(0.0287)	-0.4%
11	Total		<u>8.6750</u>	<u>8.7542</u>	<u>0.0792</u>	<u>0.9%</u>
	Large Volume High Load Factor	100				
12	Delivery		<u>0.8260</u>	<u>0.8396</u>	<u>0.0136</u>	<u>1.6%</u>
	Large Volume Interruptible	25				
13	Delivery		<u>2.8029</u>	<u>2.7201</u>	<u>(0.0828)</u>	<u>-3.0%</u>

Notes:

- (1) EB-2013-0365, Rate Order, Working Papers, Schedule 4, column (w).
- (2) Rate Order, Working Papers, Schedule 4, column (u).
- (3) Excludes Gas Supply Commodity related costs.

UNION GAS LIMITED

Union South

Percentage Change in Proposed 2017 Average Unit Price as Compared to 2014 Average Unit Price

Line No.	Particulars (cents/m <sup>3</sup> )	Rate Class	EB-2013-0365 Approved Rates (1) (cents / m <sup>3</sup> ) (a)	Excluding Customer-Related GHG Obligation		
				Proposed Rates (2) (cents / m <sup>3</sup> ) (b)	Rate Change (c) = (b-a)	Percent Change (3) (%) (d) = (c/a)
1	General Service Delivery	M1	12.5921	13.5151	0.9230	7.3%
2	Storage		0.7491	0.7153	(0.0338)	-4.5%
3	Total		<u>13.3412</u>	<u>14.2304</u>	<u>0.8892</u>	<u>6.7%</u>
4	General Service Delivery	M2	3.8035	4.8880	1.0845	28.5%
5	Storage		0.6624	0.6252	(0.0372)	-5.6%
6	Total		<u>4.4659</u>	<u>5.5132</u>	<u>1.0473</u>	<u>23.5%</u>
7	Firm Contract Commercial / Industrial Delivery	M4	<u>3.1144</u>	<u>4.3552</u>	<u>1.2408</u>	<u>39.8%</u>
8	Firm Contract Commercial / Industrial Delivery	M5 (F)	<u>2.9552</u>	<u>3.6872</u>	<u>0.7320</u>	<u>24.8%</u>
9	Interruptible Contract Commercial / Industrial Delivery	M5 (I)	<u>2.4759</u>	<u>2.9719</u>	<u>0.4960</u>	<u>20.0%</u>
10	Firm Special Large Volume Contract Delivery	M7 (F)	<u>2.8865</u>	<u>4.0757</u>	<u>1.1892</u>	<u>41.2%</u>
11	Interruptible Special Large Volume Contract Delivery	M7 (I)	<u>1.2439</u>	<u>1.3162</u>	<u>0.0723</u>	<u>5.8%</u>
12	Large Wholesale Service Delivery	M9	<u>1.1632</u>	<u>1.7370</u>	<u>0.5738</u>	<u>49.3%</u>
13	Small Wholesale Service Delivery	M10	<u>4.8795</u>	<u>6.8119</u>	<u>1.9324</u>	<u>39.6%</u>
14	Storage and Transportation Delivery	T1 (F/I)	<u>1.9751</u>	<u>2.2711</u>	<u>0.2960</u>	<u>15.0%</u>
15	Delivery excluding fuel		<u>1.9199</u>	<u>2.2021</u>	<u>0.2822</u>	<u>14.7%</u>
16	Storage and Transportation Delivery	T2 (F/I)	<u>0.8780</u>	<u>1.1281</u>	<u>0.2501</u>	<u>28.5%</u>
17	Delivery excluding fuel		<u>0.8363</u>	<u>1.0784</u>	<u>0.2421</u>	<u>28.9%</u>
18	Storage and Transportation Distributor	T3	<u>1.6285</u>	<u>2.4625</u>	<u>0.8340</u>	<u>51.2%</u>

Notes:

- (1) EB-2013-0365, Rate Order, Working Papers, Schedule 4, column (w).
- (2) Rate Order, Working Papers, Schedule 4, column (u).
- (3) Excludes Gas Supply Commodity related costs.

UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association (“BOMA”)

Reference: General

Given that the Gas Supply Memorandum is a forward-looking document, in that it lays out the plan to acquire gas for the winter of 2016-2017, please provide the landed cost analysis for the 2017 gas plan.

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**Response:**

The gas supply plan establishes the supply requirements for Union’s customers. Landed cost analysis is not a function of the gas supply plan, but rather an analysis Union prepares when evaluating transportation contracting decisions. These contracting decisions can occur at several different points in time throughout the year depending on the need and opportunity. As a result, there is no landed cost analysis used in the gas supply plan.

Union files all applicable landed cost analyses, related to upstream transportation contracting decisions yearly as part of the disposition of non-commodity deferral account balances filing.



UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association ("BOMA")

Reference: Exhibit A, Tab 3, Page 21, Figure 10

- a) Please provide additional detail on "Michigan's" seventeen percent share of gas supply, and Ojibway's six percent. Please explain the "Dawn/Uncommitted 22%" portion of supply. When is that amount committed, and for what purpose? Please explain fully.
- b) Ibid, Page 22: How does Union organize its seasonal load balancing for gas for the north system supply? Please explain how storage is used to do this.
- c) Ibid, Page 35: What changes will need to be made to Union's gas supply plan, given that the King North November 1, 2016 in-service date has not been met? When does Union anticipate the King North line will be in service? What will Union's unutilized Dawn/Parkway capacity be for the intervening period, as a result of the late completion, and what steps will Union take to mitigate the impact on ratepayers?

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**Response:**

- a) "Michigan" represents approximately 23.1 PJ (63,303 GJ/day) of annual Union South system supply purchased in Michigan and transported to Union via DTE at St. Clair.

"Ojibway" represents approximately 7.7 PJ (21,101 GJ/day) of annual Union South system supply purchased at the Ojibway interconnect with Panhandle Eastern Pipe Line ("PEPL") in the Windsor area.

"Dawn/Uncommitted" represents the annual Union South system supply requirement that has not been contracted upstream of Dawn at the time the gas supply plan is prepared. A portion of the portfolio is planned to be purchased at Dawn, providing the operational flexibility needed to manage annual fluctuations in demand and changing market conditions. Upstream contracting decisions are normally made by November 1<sup>st</sup>. The purpose for contracting upstream of Dawn is to ensure that customers receive secure, diverse gas supply at a prudently incurred cost. Union continuously evaluates options to secure upstream transportation to fulfill a portion of the uncommitted requirement identified in the gas supply plan with the remainder becoming a planned purchase at Dawn. All decisions made are in accordance with the guiding principles of the gas supply plan.

- b) Union uses the aggregate excess calculation described in Exhibit A, Tab 3, p. 25 to determine the amount of in-franchise storage required for Union North system supply. To balance its seasonal demand, Union injects surplus gas transported from the supply basin to the delivery area into storage during the summer months and withdraws gas from storage in the winter

months to serve winter consumption. Union uses TransCanada PipeLine's ("TransCanada's") STS service to transport the gas to storage in the summer months and from storage in the winter months.

- c) There are no changes to Union's gas supply plan as a result of delays in the King's North Project in-service date. Union will adjust its gas purchases at Empress and Dawn to reflect the supply portfolio in place until the TransCanda projects are in-service.

As noted at Exhibit B.Board Staff.4, TransCanada received approval from the NEB for the leave to open application for King's North on November 2, 2016. Union is still awaiting final communication from TransCanada on the exact in-service date of the King's North Project, however, Union is expecting the project to be in-service by mid-November. In addition, TransCanada has indicated that the Maple Compressor Upgrade will be in-service early December 2016.

There is minimal Dawn to Parkway unutilized capacity given the expected in-service dates of TransCanada facilities.

UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association (“BOMA”)

Reference: Exhibit A, Tab 3, Appendix A

- a) Please explain the function performed by the SynerGEE model in the Annual Gas Supply Planning Process.
- b) Please provide a Table with an explanation, which shows the utilization of the Dawn/Parkway/Kirkwall system by ex-franchise users on a monthly basis for 2015, 2016, and 2017, identifying each user and the volume contracted for and utilized in the system. Please show both the receipt and delivery points for each contract.
- c) What is the total daily capacity of the Dawn/Parkway/Kirkwall system? Please show any seasonal variations due to weather impacts, and any physical constraints on portions of it. What is the estimated average unutilized capacity of the system for 2016; forecast for 2017?

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**Response:**

- a) Synergi Gas (formerly SynerGEE Gas) is a gas network modelling software program. Using the Synergi software, System Planning estimates the capacity of the transmission systems, the supply required at Dawn and shortfall in capacity (if any) on Design Day.
- b) Please see Attachment 1 for a listing of active contracts on the Dawn Parkway System as at November 1<sup>st</sup> for each of 2015 and 2016 as well as a projected listing as at November 1, 2017. Customer-specific utilization is commercially sensitive information, and accordingly is not included in the response.
- c) The capacity of the Dawn Parkway system as of Winter 2016/2017 is approximately 7.5 PJ/d.

There is approximately 62 TJ/d Winter 2016/2017 and forecast 160 TJ/d in Winter 2017/2018 of unutilized capacity on Design Day based on current modelling assumptions.

Union’s Dawn Parkway System is designed to transport required demands on the Design Day. The demands required to be served from the Dawn Parkway System decrease as the temperature becomes warmer. Union is able to reliably serve customer demands during the entire year and schedules planned maintenance and construction outages during times of the year when the utilization is forecast to be lower.

November 2015

Customer Name	Contract Identifier	Receipt Point	Delivery Point	Quantity (GJ)	Start Date	End Date
Enbridge Gas Distribution Inc.	C10059	Parkway	Dawn	236,586	01-Apr-06	31-Mar-18
St. Lawrence Gas Company, Inc.	C10076	Parkway	Dawn	10,785	01-Apr-07	31-Mar-18
Gaz Metro Limited Partnership	C10087	Parkway	Dawn	100,000	01-Apr-11	31-Mar-18
York Energy Centre LP	C10102	Dawn	Parkway	11,654	01-Apr-12	31-Mar-16
Emera Energy Incorporated	C10107	Kirkwall	Dawn	73,745	01-Nov-15	31-Oct-20
Emera Energy Incorporated	C10108	Kirkwall	Dawn	26,335	01-Apr-15	31-Mar-20
DTE Energy Trading, Inc.	C10110	Kirkwall	Dawn	73,000	01-Nov-15	31-Oct-17
Mercuria Commodities Canada Corporation	C10111	Parkway	Dawn	42,202	01-Apr-15	31-Mar-20
Husky Oil Operations Limited	HUB002T129	Dawn	Parkway	528	01-Nov-15	31-Mar-16
Husky Oil Operations Limited	HUB002T130	Dawn	Parkway	633	01-Nov-15	31-Mar-16
Husky Oil Operations Limited	HUB002T131	Dawn	Parkway	4,220	01-Nov-15	31-Mar-16
Husky Oil Operations Limited	HUB002T132	Dawn	Parkway	4,326	01-Nov-15	31-Mar-16
BP Canada Energy Group ULC	HUB040T211	Dawn	Parkway	2,743	01-Nov-15	31-Mar-16
Tenaska Marketing Canada - a division of TMV Corp.	HUB078E98	Dawn	Parkway	2,515	01-Nov-15	31-Mar-16
Tenaska Marketing Canada - a division of TMV Corp.	HUB078T170	Dawn	Parkway	6,126	01-Nov-15	30-Nov-15
Ontario Power Generation Inc.	HUB335T006	Parkway	Dawn	2,670	01-Nov-15	31-Mar-16
Ag Energy Co-operative Ltd.	HUB351T001	Dawn	Parkway	1,952	01-Nov-15	31-Mar-16
Exelon Generation Company, LLC	HUB352T014	Dawn	Parkway	21,101	01-Nov-15	31-Mar-16
Cargill Limited	HUB356T137	Dawn	Parkway	5,275	01-Nov-15	31-Mar-16
Access Gas Services (Ontario) Inc.	HUB547T140	Dawn	Parkway	3,000	01-Nov-15	31-Mar-16
Access Gas Services (Ontario) Inc.	HUB547T141	Dawn	Parkway	2,500	01-Nov-15	31-Mar-16
EDF Trading North America, LLC	HUB561T478	Dawn	Parkway	10,551	01-Nov-15	31-Mar-16
EDF Trading North America, LLC	HUB561T480	Dawn	Parkway	5,275	01-Nov-15	31-Mar-16
Koch Canada Energy Services, LP	HUB584T278	Dawn	Parkway	677	01-Nov-15	30-Nov-15
PetroChina International (Canada) Trading Ltd.	HUB667T002	Dawn	Parkway	1,055	01-Nov-15	31-Mar-16
Gaz Metro Limited Partnership	M12007D	Dawn	Parkway	21,021	01-Nov-91	31-Oct-18
1425445 Ontario Limited o/a Utilities Kingston	M12077	Dawn	Parkway	6,322	01-Apr-04	31-Mar-18
Enbridge Gas Distribution Inc.	M12079A	Dawn	Kirkwall	32,123	01-Apr-14	31-Oct-18
Enbridge Gas Distribution Inc.	M12079B	Dawn	Parkway	1,764,678	01-Apr-14	31-Oct-22
Enbridge Gas Distribution Inc.	M12080	Dawn	Parkway	106,000	01-Nov-06	31-Oct-18
TransAlta Cogeneration, L.P.	M12081	Dawn	Parkway	7,636	01-Nov-06	30-Nov-16
U.S. Steel Canada Inc.	M12085	Dawn	Parkway	11,087	16-Sep-14	31-Oct-18
TransCanada PipeLines Limited	M12086	Dawn	Parkway	83,915	01-Nov-06	31-Oct-17
The Corporation of the City of Kitchener	M12090	Dawn	Parkway	2,600	01-Nov-06	31-Oct-17
Gaz Metro Limited Partnership	M12092	Dawn	Parkway	35,000	01-Nov-06	31-Oct-18
Enbridge Gas Distribution Inc.	M12108	Dawn	Parkway	57,100	01-Nov-07	31-Oct-19
Gaz Metro Limited Partnership	M12109	Dawn	Parkway	65,000	01-Nov-07	31-Oct-27
Goreway Station Partnership by its managing partner Goreway Power Station Holdings ULC	M12110	Dawn	Parkway	140,000	01-Nov-07	31-Oct-28

November 2015

Customer Name	Contract Identifier	Receipt Point	Delivery Point	Quantity (GJ)	Start Date	End Date
Vermont Gas Systems, Inc.	M12119	Dawn	Parkway	20,000	01-Nov-07	31-Oct-18
Greater Toronto Airports Authority	M12120	Dawn	Parkway	7,500	01-Nov-07	31-Oct-18
TransCanada PipeLines Limited	M12123	Dawn	Kirkwall	71,838	01-Nov-08	31-Oct-17
Enbridge Gas Distribution Inc.	M12125	Dawn	Parkway	10,692	01-Nov-08	31-Oct-18
St. Lawrence Gas Company, Inc.	M12126	Dawn	Parkway	10,785	01-Nov-08	31-Oct-18
1425445 Ontario Limited o/a Utilities Kingston	M12127	Dawn	Parkway	2,113	01-Nov-08	31-Oct-18
Thorold CoGen L.P. by its General Partner Northland Power Thorold Cogen GP Inc.	M12129	Dawn	Kirkwall	49,500	01-Sep-09	31-Aug-29
Portlands Energy Centre L.P. ,by its General Partner, Portlands Energy Centre Inc.	M12130	Dawn	Parkway	100,000	13-Jan-09	31-Oct-28
TransCanada Power, a Division of TransCanada Energy Ltd.	M12131	Dawn	Parkway	84,348	01-Nov-09	31-Oct-18
Gaz Metro Limited Partnership	M12132	Dawn	Parkway	52,343	01-Apr-09	31-Mar-18
Ag Energy Co-operative Ltd.	M12151	Dawn	Parkway	1,363	01-Nov-08	31-Oct-20
Consolidated Edison Company of New York, Inc. and Orange and Rockland Utilities, Inc.	M12162	Dawn	Kirkwall	31,746	01-Nov-11	31-Oct-17
KeySpan Gas East Corporation d/b/a National Grid	M12163	Dawn	Parkway	43,837	01-Nov-11	31-Oct-18
The Narragansett Electric Company d/b/a National Grid	M12164	Dawn	Parkway	1,081	01-Nov-11	31-Oct-18
The Brooklyn Union Gas Company d/b/a National Grid NY	M12165	Dawn	Parkway	44,019	01-Nov-11	31-Oct-18
Connecticut Natural Gas Corporation	M12166	Dawn	Parkway	6,410	01-Nov-11	31-Oct-18
Ag Energy Co-operative Ltd.	M12167	Dawn	Parkway	1,900	01-Nov-11	31-Oct-21
Consolidated Edison Company of New York, Inc. and Orange and Rockland Utilities, Inc.	M12171	Dawn	Parkway	21,825	01-Nov-11	31-Oct-18
Gaz Metro Limited Partnership	M12172	Dawn	Parkway	22,908	01-Apr-10	31-Mar-18
Enbridge Gas Distribution Inc.	M12175	Dawn	Kirkwall	35,806	01-Nov-10	31-Oct-18
Gaz Metro Limited Partnership	M12176	Dawn	Parkway	88,728	01-Apr-11	31-Mar-18
Central Hudson Gas & Electric Corporation (a subsidiary of CH Energy Group, Inc.)	M12182	Dawn	Parkway	5,467	01-Nov-11	31-Oct-18
York Energy Centre LP	M12184	Dawn	Parkway	76,000	01-Apr-12	31-Oct-22
Niagara Mohawk Power Corporation d/b/a National Grid	M12186	Dawn	Parkway	55,123	01-Nov-11	31-Oct-18
Enbridge Gas Distribution Inc.	M12188	Dawn	Parkway	18,703	01-Nov-11	31-Oct-18
Vermont Gas Systems, Inc.	M12190	Dawn	Parkway	500	01-Nov-10	31-Oct-20
The Brooklyn Union Gas Company d/b/a National Grid NY	M12193	Dawn	Parkway	12,953	01-Nov-10	31-Oct-18
KeySpan Gas East Corporation d/b/a National Grid	M12194	Dawn	Parkway	17,162	01-Nov-10	31-Oct-18
Central Hudson Gas & Electric Corporation (a subsidiary of CH Energy Group, Inc.)	M12195	Dawn	Parkway	10,792	01-Nov-10	31-Oct-18
Boston Gas Company d/b/a National Grid	M12197	Dawn	Parkway	9,282	01-Nov-10	31-Oct-18
Colonial Gas Company d/b/a National Grid	M12198	Dawn	Parkway	6,475	01-Nov-10	31-Oct-18

November 2015

Customer Name	Contract Identifier	Receipt Point	Delivery Point	Quantity (GJ)	Start Date	End Date
Boston Gas Company d/b/a National Grid	M12199	Dawn	Parkway	2,158	01-Nov-10	31-Oct-18
Liberty Utilities (EnergyNorth Natural Gas) Corp.	M12200	Dawn	Parkway	4,317	01-Nov-10	31-Oct-18
Connecticut Natural Gas Corporation	M12201	Dawn	Parkway	18,077	01-Nov-10	31-Oct-18
The Southern Connecticut Gas Company	M12202	Dawn	Parkway	34,950	01-Nov-10	31-Oct-18
Yankee Gas Services Company	M12203	Dawn	Parkway	43,116	01-Nov-10	31-Oct-18
Bay State Gas Company dba Columbia Gas of Massachusetts	M12204	Dawn	Parkway	27,803	01-Nov-10	31-Oct-18
Northern Utilities, Inc.	M12205	Dawn	Parkway	6,333	01-Nov-10	31-Oct-17
Connecticut Natural Gas Corporation	M12206	Dawn	Parkway	9,170	01-Nov-10	31-Oct-18
The Southern Connecticut Gas Company	M12207	Dawn	Parkway	13,970	01-Nov-10	31-Oct-18
The Brooklyn Union Gas Company d/b/a National Grid NY	M12208	Dawn	Parkway	30,217	01-Nov-10	31-Oct-18
KeySpan Gas East Corporation d/b/a National Grid	M12209	Dawn	Parkway	22,772	01-Nov-10	31-Oct-18
Yankee Gas Services Company	M12210	Dawn	Parkway	20,560	01-Nov-10	31-Oct-18
Yankee Gas Services Company	M12212	Dawn	Parkway	5,380	01-Nov-10	31-Oct-19
The Southern Connecticut Gas Company	M12213	Dawn	Parkway	9,735	01-Nov-10	31-Oct-19
Connecticut Natural Gas Corporation	M12214	Dawn	Parkway	6,489	01-Nov-10	31-Oct-19
Suncor Energy Products Partnership Produits Suncor Energie, S.E.N.C.	M12217	Dawn	Parkway	9,585	01-Nov-11	31-Oct-18
TransCanada PipeLines Limited	M12219	Kirkwall	Parkway	88,497	01-Nov-12	31-Oct-22
TransCanada PipeLines Limited	M12220	Kirkwall	Parkway	174,752	01-Nov-13	31-Oct-23
Emera Energy Incorporated	M12221	Kirkwall	Parkway	36,751	01-Nov-12	31-Oct-22
Gaz Metro Limited Partnership	M12222	Dawn	Parkway	257,784	01-Nov-15	31-Oct-25
Vermont Gas Systems, Inc.	M12224	Dawn	Parkway	8,100	01-Nov-14	31-Oct-24
Enbridge Gas Distribution Inc.	M12225	Dawn	Parkway (EGT)	0	01-Nov-15	31-Oct-25
TransCanada PipeLines Limited	M12258	Dawn	Parkway	35,872	01-Nov-15	31-Mar-18
TransCanada PipeLines Limited	M12X004	Dawn	Parkway	50,000	01-Sep-11	31-Aug-21
TransCanada PipeLines Limited	M12X005	Dawn	Parkway	78,316	01-Sep-11	31-Aug-21
Enbridge Gas Distribution Inc.	M12X006	Dawn	Parkway	200,000	01-Nov-12	31-Oct-22
TransCanada PipeLines Limited	M12X013	Dawn	Parkway	62,695	01-Nov-12	31-Oct-23
1425445 Ontario Limited o/a Utilities Kingston	M12X015	Dawn	Parkway	5,000	01-Apr-14	31-Mar-24

November 2016

Customer Name	Contract Identifier	Receipt Point	Delivery Point	Quantity (GJ)	Start Date	End Date
Enbridge Gas Distribution Inc.	C10059	Parkway	Dawn	236,586	01-Apr-06	31-Mar-19
St. Lawrence Gas Company, Inc.	C10076	Parkway	Dawn	10,785	01-Apr-07	31-Mar-19
Gaz Metro Limited Partnership	C10087	Parkway	Dawn	100,000	01-Apr-11	31-Mar-19
York Energy Centre LP	C10102	Dawn	Parkway	11,654	01-Apr-12	31-Dec-16
Emera Energy Incorporated	C10107	Kirkwall	Dawn	73,745	01-Nov-15	31-Oct-20
Emera Energy Incorporated	C10108	Kirkwall	Dawn	26,335	01-Apr-15	31-Mar-20
Seneca Resources Corporation	C10109	Kirkwall	Dawn	18,991	01-Nov-16	31-Mar-23
DTE Energy Trading, Inc.	C10110	Kirkwall	Dawn	73,000	01-Nov-15	31-Oct-17
Mercuria Commodities Canada Corporation	C10111	Parkway	Dawn	42,202	01-Apr-15	31-Mar-20
Tenaska Marketing Canada - a division of TMV Corp.	HUB078T176	Dawn	Parkway	6,126	01-Nov-16	30-Nov-16
Ingredion Canada Corporation	HUB228T001	Dawn	Parkway	719	01-Nov-16	31-Dec-16
Ontario Power Generation Inc.	HUB335T009	Parkway	Dawn	2,650	01-Nov-16	31-Mar-17
Koch Canada Energy Services, LP	HUB584T338	Dawn	Parkway	85	01-Nov-16	30-Nov-16
Castleton Commodities Merchant Trading L.P.	HUB623T055	Dawn	Parkway	2,638	01-Nov-16	31-Mar-17
Gaz Metro Limited Partnership	M12007D	Dawn	Parkway	21,021	01-Nov-91	31-Oct-19
1425445 Ontario Limited o/a Utilities Kingston	M12077	Dawn	Parkway	6,322	01-Apr-04	31-Mar-19
Enbridge Gas Distribution Inc.	M12079A	Dawn	Kirkwall	32,123	01-Apr-14	31-Oct-19
Enbridge Gas Distribution Inc.	M12079B	Dawn	Parkway	1,764,678	01-Apr-14	31-Oct-22
Enbridge Gas Distribution Inc.	M12080	Dawn	Parkway	106,000	01-Nov-06	31-Oct-19
TransAlta Cogeneration, L.P.	M12081	Dawn	Parkway	7,636	01-Nov-06	30-Nov-16
U.S. Steel Canada Inc.	M12085	Dawn	Parkway	11,087	16-Sep-14	31-Oct-19
TransCanada PipeLines Limited	M12086	Dawn	Parkway	83,915	01-Nov-06	31-Oct-17
The Corporation of the City of Kitchener	M12090	Dawn	Parkway	2,600	01-Nov-06	31-Oct-17
Gaz Metro Limited Partnership	M12092	Dawn	Parkway	35,000	01-Nov-06	31-Oct-19
Enbridge Gas Distribution Inc.	M12108	Dawn	Parkway	57,100	01-Nov-07	31-Oct-19
Gaz Metro Limited Partnership	M12109	Dawn	Parkway	65,000	01-Nov-07	31-Oct-27
Goreway Station Partnership by its managing partner Goreway Power Station Holdings ULC	M12110	Dawn	Parkway	140,000	01-Nov-07	31-Oct-28
Vermont Gas Systems, Inc.	M12119	Dawn	Parkway	20,000	01-Nov-07	31-Oct-19
Greater Toronto Airports Authority	M12120	Dawn	Parkway	7,500	01-Nov-07	31-Oct-19
TransCanada PipeLines Limited	M12123	Dawn	Kirkwall	59,778	01-Nov-08	31-Oct-17
Enbridge Gas Distribution Inc.	M12125	Dawn	Parkway	10,692	01-Nov-08	31-Oct-19
St. Lawrence Gas Company, Inc.	M12126	Dawn	Parkway	10,785	01-Nov-08	31-Oct-19
1425445 Ontario Limited o/a Utilities Kingston	M12127	Dawn	Parkway	2,113	01-Nov-08	31-Oct-18
Thorold CoGen L.P. by its General Partner Northland Power Thorold Cogen GP Inc.	M12129	Dawn	Kirkwall	49,500	01-Sep-09	31-Aug-29
Portlands Energy Centre L.P. by its General Partner, Portlands Energy Centre Inc.	M12130	Dawn	Parkway	100,000	13-Jan-09	31-Oct-28
TransCanada Power, a Division of TransCanada Energy Ltd.	M12131	Dawn	Parkway	84,348	01-Nov-09	31-Oct-18

November 2016

Customer Name	Contract Identifier	Receipt Point	Delivery Point	Quantity (GJ)	Start Date	End Date
Gaz Metro Limited Partnership	M12132	Dawn	Parkway	52,343	01-Apr-09	31-Mar-19
Ag Energy Co-operative Ltd.	M12151	Dawn	Parkway	1,363	01-Nov-08	31-Oct-20
Consolidated Edison Company of New York, Inc. and Orange and Rockland Utilities, Inc.	M12162	Dawn	Kirkwall	31,746	01-Nov-11	31-Oct-17
The Narragansett Electric Company d/b/a National Grid	M12164	Dawn	Parkway	1,081	01-Nov-11	31-Oct-19
Connecticut Natural Gas Corporation	M12166	Dawn	Parkway	6,410	01-Nov-11	31-Oct-19
Ag Energy Co-operative Ltd.	M12167	Dawn	Parkway	1,900	01-Nov-11	31-Oct-21
Consolidated Edison Company of New York, Inc. and Orange and Rockland Utilities, Inc.	M12171	Dawn	Parkway	21,825	01-Nov-11	31-Oct-19
Gaz Metro Limited Partnership	M12172	Dawn	Parkway	22,908	01-Apr-10	31-Mar-19
Enbridge Gas Distribution Inc.	M12175	Dawn	Kirkwall	35,806	01-Nov-10	31-Oct-19
Gaz Metro Limited Partnership	M12176	Dawn	Parkway	88,728	01-Apr-11	31-Mar-19
Central Hudson Gas & Electric Corporation (a subsidiary of CH Energy Group, Inc.)	M12182	Dawn	Parkway	5,467	01-Nov-11	31-Oct-19
York Energy Centre LP	M12184	Dawn	Parkway	76,000	01-Apr-12	31-Oct-22
Niagara Mohawk Power Corporation d/b/a National Grid	M12186	Dawn	Parkway	55,123	01-Nov-11	31-Oct-19
Enbridge Gas Distribution Inc.	M12188	Dawn	Parkway	18,703	01-Nov-11	31-Oct-19
Vermont Gas Systems, Inc.	M12190	Dawn	Parkway	500	01-Nov-10	31-Oct-20
The Brooklyn Union Gas Company d/b/a National Grid NY	M12193	Dawn	Parkway	12,953	01-Nov-10	31-Oct-19
KeySpan Gas East Corporation d/b/a National Grid	M12194	Dawn	Parkway	17,162	01-Nov-10	31-Oct-19
Central Hudson Gas & Electric Corporation (a subsidiary of CH Energy Group, Inc.)	M12195	Dawn	Parkway	10,792	01-Nov-10	31-Oct-19
Boston Gas Company d/b/a National Grid	M12197	Dawn	Parkway	9,282	01-Nov-10	31-Oct-19
Colonial Gas Company d/b/a National Grid	M12198	Dawn	Parkway	6,475	01-Nov-10	31-Oct-19
Boston Gas Company d/b/a National Grid	M12199	Dawn	Parkway	2,158	01-Nov-10	31-Oct-19
Liberty Utilities (EnergyNorth Natural Gas) Corp.	M12200	Dawn	Parkway	4,317	01-Nov-10	31-Oct-22
Connecticut Natural Gas Corporation	M12201	Dawn	Parkway	18,077	01-Nov-10	31-Oct-19
The Southern Connecticut Gas Company	M12202	Dawn	Parkway	34,950	01-Nov-10	31-Oct-19
Yankee Gas Services Company	M12203	Dawn	Parkway	43,116	01-Nov-10	31-Oct-19
Bay State Gas Company dba Columbia Gas of Massachusetts	M12204	Dawn	Parkway	27,803	01-Nov-10	31-Oct-22
Northern Utilities, Inc.	M12205	Dawn	Parkway	6,333	01-Nov-10	31-Oct-17
Connecticut Natural Gas Corporation	M12206	Dawn	Parkway	9,170	01-Nov-10	31-Oct-19
The Southern Connecticut Gas Company	M12207	Dawn	Parkway	13,970	01-Nov-10	31-Oct-19
The Brooklyn Union Gas Company d/b/a National Grid NY	M12208	Dawn	Parkway	30,217	01-Nov-10	31-Oct-19
KeySpan Gas East Corporation d/b/a National Grid	M12209	Dawn	Parkway	22,772	01-Nov-10	31-Oct-19
Yankee Gas Services Company	M12210	Dawn	Parkway	20,560	01-Nov-10	31-Oct-19
Yankee Gas Services Company	M12212	Dawn	Parkway	5,380	01-Nov-10	31-Oct-19
The Southern Connecticut Gas Company	M12213	Dawn	Parkway	9,735	01-Nov-10	31-Oct-19
Connecticut Natural Gas Corporation	M12214	Dawn	Parkway	6,489	01-Nov-10	31-Oct-19



November 2016

Customer Name	Contract Identifier	Receipt Point	Delivery Point	Quantity (GJ)	Start Date	End Date
Suncor Energy Products Partnership Produits Suncor Energie, S.E.N.C.	M12217	Dawn	Parkway	9,585	01-Nov-11	31-Oct-19
TransCanada PipeLines Limited	M12219	Kirkwall	Parkway	88,497	01-Nov-12	31-Oct-22
TransCanada PipeLines Limited	M12220	Kirkwall	Parkway	174,752	01-Nov-13	31-Oct-23
Emera Energy Incorporated	M12221	Kirkwall	Parkway	36,751	01-Nov-12	31-Oct-22
Gaz Metro Limited Partnership	M12222	Dawn	Parkway	257,784	01-Nov-15	31-Oct-25
Vermont Gas Systems, Inc.	M12224	Dawn	Parkway	8,100	01-Nov-14	31-Oct-24
Enbridge Gas Distribution Inc.	M12225	Dawn	Parkway (EGT)	400,000	01-Nov-15	31-Oct-25
TransCanada PipeLines Limited	M12230	Kirkwall	Parkway	36,301	01-Nov-16	31-Oct-31
Gaz Metro Limited Partnership	M12232	Dawn	Parkway	39,507	01-Nov-16	31-Oct-31
Gaz Metro Limited Partnership	M12233	Dawn	Parkway	19,754	01-Nov-16	31-Oct-31
Enbridge Gas Distribution Inc.	M12234	Dawn	Parkway	170,000	01-Nov-16	31-Oct-31
Gaz Metro Limited Partnership	M12237	Dawn	Parkway	85,680	01-Nov-16	31-Oct-31
TransCanada PipeLines Limited	M12258	Dawn	Parkway	35,872	01-Nov-15	31-Mar-18
Mercuria Commodities Canada Corporation	M12262	Dawn	Parkway	44,019	01-Nov-16	31-Oct-18
Mercuria Commodities Canada Corporation	M12263	Dawn	Parkway	43,837	01-Nov-16	31-Oct-18
TransCanada PipeLines Limited	M12X004	Dawn	Parkway	50,000	01-Sep-11	31-Aug-21
TransCanada PipeLines Limited	M12X005	Dawn	Parkway	78,316	01-Sep-11	31-Aug-21
Enbridge Gas Distribution Inc.	M12X006	Dawn	Parkway	200,000	01-Nov-12	31-Oct-22
TransCanada PipeLines Limited	M12X013	Dawn	Parkway	62,695	01-Nov-12	31-Oct-23
1425445 Ontario Limited o/a Utilities Kingston	M12X015	Dawn	Parkway	5,000	01-Apr-14	31-Mar-24

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Gaz Metro Limited Partnership	C10087	Parkway	Dawn	100,000	01-Apr-11	31-Mar-19
Emera Energy Incorporated	C10107	Kirkwall	Dawn	73,745	01-Nov-15	31-Oct-20
Emera Energy Incorporated	C10108	Kirkwall	Dawn	26,335	01-Apr-15	31-Mar-20
Seneca Resources Corporation	C10109	Kirkwall	Dawn	18,991	01-Nov-16	31-Mar-23
Mercuria Commodities Canada Corporation	C10111	Parkway	Dawn	42,202	01-Apr-15	31-Mar-20
Gaz Metro Limited Partnership	M12007D	Dawn	Parkway	21,021	01-Nov-91	31-Oct-19
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Enbridge Gas Distribution Inc.	M12079A	Dawn	Kirkwall	32,123	01-Apr-14	31-Oct-19
Enbridge Gas Distribution Inc.	M12079B	Dawn	Parkway	1,764,678	01-Apr-14	31-Oct-22
Enbridge Gas Distribution Inc.	M12080	Dawn	Parkway	106,000	01-Nov-06	31-Oct-19
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Gaz Metro Limited Partnership	M12092	Dawn	Parkway	35,000	01-Nov-06	31-Oct-19
Enbridge Gas Distribution Inc.	M12108	Dawn	Parkway	57,100	01-Nov-07	31-Oct-19
Gaz Metro Limited Partnership	M12109	Dawn	Parkway	65,000	01-Nov-07	31-Oct-27
Goreway Station Partnership by its managing partner Goreway Power Station Holdings ULC	M12110	Dawn	Parkway	140,000	01-Nov-07	31-Oct-28
Vermont Gas Systems, Inc.	M12119	Dawn	Parkway	20,000	01-Nov-07	31-Oct-19
Greater Toronto Airports Authority	M12120	Dawn	Parkway	7,500	01-Nov-07	31-Oct-19
TransCanada PipeLines Limited	M12123	Dawn	Kirkwall	59,778	01-Nov-08	31-Oct-17
Enbridge Gas Distribution Inc.	M12125	Dawn	Parkway	10,692	01-Nov-08	31-Oct-19
St. Lawrence Gas Company, Inc.	M12126	Dawn	Parkway	10,785	01-Nov-08	31-Oct-19
1425445 Ontario Limited o/a Utilities Kingston	M12127	Dawn	Parkway	2,113	01-Nov-08	31-Oct-18
Thorold CoGen L.P. by its General Partner Northland Power Thorold CoGen GP Inc.	M12129	Dawn	Kirkwall	49,500	01-Sep-09	31-Aug-29
Portlands Energy Centre L.P. by its General Partner, Portlands Energy Centre Inc.	M12130	Dawn	Parkway	100,000	13-Jan-09	31-Oct-28
TransCanada Power, a Division of TransCanada Energy Ltd.	M12131	Dawn	Parkway	84,348	01-Nov-09	31-Oct-18
Gaz Metro Limited Partnership	M12132	Dawn	Parkway	52,343	01-Apr-09	31-Mar-19
Ag Energy Co-operative Ltd.	M12151	Dawn	Parkway	1,363	01-Nov-08	31-Oct-20
Consolidated Edison Company of New York, Inc. and Orange and Rockland Utilities, Inc.	M12162	Dawn	Kirkwall	31,746	01-Nov-11	31-Oct-17
The Narragansett Electric Company d/b/a National Grid	M12164	Dawn	Parkway	1,081	01-Nov-11	31-Oct-19
Connecticut Natural Gas Corporation	M12166	Dawn	Parkway	6,410	01-Nov-11	31-Oct-19
Ag Energy Co-operative Ltd.	M12167	Dawn	Parkway	1,900	01-Nov-11	31-Oct-21
Consolidated Edison Company of New York, Inc. and Orange and Rockland Utilities, Inc.	M12171	Dawn	Parkway	21,825	01-Nov-11	31-Oct-19

November 2017

Customer Name	Contract Identifier	Receipt Point	Delivery Point	Quantity (GJ)	Start Date	End Date
Gaz Metro Limited Partnership	M12172	Dawn	Parkway	22,908	01-Apr-10	31-Mar-19
Enbridge Gas Distribution Inc.	M12175	Dawn	Kirkwall	35,806	01-Nov-10	31-Oct-19
Gaz Metro Limited Partnership	M12176	Dawn	Parkway	88,728	01-Apr-11	31-Mar-19
Central Hudson Gas & Electric Corporation (a subsidiary of CH Energy Group, Inc.)	M12182	Dawn	Parkway	5,467	01-Nov-11	31-Oct-19
York Energy Centre LP	M12184	Dawn	Parkway	76,000	01-Apr-12	31-Oct-22
Niagara Mohawk Power Corporation d/b/a National Grid	M12186	Dawn	Parkway	55,123	01-Nov-11	31-Oct-19
Enbridge Gas Distribution Inc.	M12188	Dawn	Parkway	18,703	01-Nov-11	31-Oct-19
Vermont Gas Systems, Inc.	M12190	Dawn	Parkway	500	01-Nov-10	31-Oct-20
The Brooklyn Union Gas Company d/b/a National Grid NY	M12193	Dawn	Parkway	12,953	01-Nov-10	31-Oct-19
KeySpan Gas East Corporation d/b/a National Grid	M12194	Dawn	Parkway	17,162	01-Nov-10	31-Oct-19
Central Hudson Gas & Electric Corporation (a subsidiary of CH Energy Group, Inc.)	M12195	Dawn	Parkway	10,792	01-Nov-10	31-Oct-19
Boston Gas Company d/b/a National Grid	M12197	Dawn	Parkway	9,282	01-Nov-10	31-Oct-19
Colonial Gas Company d/b/a National Grid	M12198	Dawn	Parkway	6,475	01-Nov-10	31-Oct-19
Boston Gas Company d/b/a National Grid	M12199	Dawn	Parkway	2,158	01-Nov-10	31-Oct-19
Liberty Utilities (EnergyNorth Natural Gas) Corp.	M12200	Dawn	Parkway	4,317	01-Nov-10	31-Oct-22
Connecticut Natural Gas Corporation	M12201	Dawn	Parkway	18,077	01-Nov-10	31-Oct-19
The Southern Connecticut Gas Company	M12202	Dawn	Parkway	34,950	01-Nov-10	31-Oct-19
Yankee Gas Services Company	M12203	Dawn	Parkway	43,116	01-Nov-10	31-Oct-19
Bay State Gas Company dba Columbia Gas of Massachusetts	M12204	Dawn	Parkway	27,803	01-Nov-10	31-Oct-22
Northern Utilities, Inc.	M12205	Dawn	Parkway	6,333	01-Nov-10	31-Oct-17
Connecticut Natural Gas Corporation	M12206	Dawn	Parkway	9,170	01-Nov-10	31-Oct-19
The Southern Connecticut Gas Company	M12207	Dawn	Parkway	13,970	01-Nov-10	31-Oct-19
The Brooklyn Union Gas Company d/b/a National Grid NY	M12208	Dawn	Parkway	30,217	01-Nov-10	31-Oct-19
KeySpan Gas East Corporation d/b/a National Grid	M12209	Dawn	Parkway	22,772	01-Nov-10	31-Oct-19
Yankee Gas Services Company	M12210	Dawn	Parkway	20,560	01-Nov-10	31-Oct-19
Yankee Gas Services Company	M12212	Dawn	Parkway	5,380	01-Nov-10	31-Oct-19
The Southern Connecticut Gas Company	M12213	Dawn	Parkway	9,735	01-Nov-10	31-Oct-19
Connecticut Natural Gas Corporation	M12214	Dawn	Parkway	6,489	01-Nov-10	31-Oct-19
Suncor Energy Products Partnership Produits Suncor Energie, S.E.N.C.	M12217	Dawn	Parkway	9,585	01-Nov-11	31-Oct-19
TransCanada PipeLines Limited	M12219	Kirkwall	Parkway	88,497	01-Nov-12	31-Oct-22
TransCanada PipeLines Limited	M12220	Kirkwall	Parkway	174,752	01-Nov-13	31-Oct-23
Emera Energy Incorporated	M12221	Kirkwall	Parkway	36,751	01-Nov-12	31-Oct-22
Gaz Metro Limited Partnership	M12222	Dawn	Parkway	257,784	01-Nov-15	31-Oct-25
Vermont Gas Systems, Inc.	M12224	Dawn	Parkway	8,100	01-Nov-14	31-Oct-24
Enbridge Gas Distribution Inc.	M12225	Dawn	Parkway (EGT)	400,000	01-Nov-15	31-Oct-25
TransCanada PipeLines Limited	M12230	Kirkwall	Parkway	36,301	01-Nov-16	31-Oct-31

November 2017

Customer Name	Contract Identifier	Receipt Point	Delivery Point	Quantity (GJ)	Start Date	End Date
Gaz Metro Limited Partnership	M12232	Dawn	Parkway	39,507	01-Nov-16	31-Oct-31
Gaz Metro Limited Partnership	M12233	Dawn	Parkway	19,754	01-Nov-16	31-Oct-31
Enbridge Gas Distribution Inc.	M12234	Dawn	Parkway	170,000	01-Nov-16	31-Oct-31
Gaz Metro Limited Partnership	M12237	Dawn	Parkway	85,680	01-Nov-16	31-Oct-31
Gaz Metro Limited Partnership	M12244	Dawn	Parkway	36,670	01-Nov-17	31-Oct-32
TransCanada Energy Limited	M12246	Dawn	Parkway	120,000	01-Nov-17	31-Oct-32
St. Lawrence Gas Company, Inc.	M12249	Dawn	Parkway	10,412	01-Nov-17	31-Oct-32
Enbridge Gas Distribution Inc.	M12250	Dawn	Parkway	190,000	01-Nov-17	31-Oct-32
1425445 Ontario Limited o/a Utilities Kingston	M12251	Dawn	Parkway	5,000	01-Nov-17	31-Oct-32
1425445 Ontario Limited o/a Utilities Kingston	M12252	Kirkwall	Parkway	1,000	01-Nov-17	31-Oct-32
The Corporation of the City of Kitchener	M12253	Kirkwall	Parkway	10,000	01-Nov-17	31-Oct-32
DTE Energy Trading Inc.	M12255	Kirkwall	Parkway	73,854	01-Nov-17	31-Oct-31
Northern Utilities, Inc.	M12256	Dawn	Parkway	6,440	01-Nov-17	31-Mar-18
TransCanada PipeLines Limited	M12258	Dawn	Parkway	35,872	01-Nov-15	31-Mar-18
Mercuria Commodities Canada Corporation	M12262	Dawn	Parkway	44,019	01-Nov-16	31-Oct-18
Mercuria Commodities Canada Corporation	M12263	Dawn	Parkway	43,837	01-Nov-16	31-Oct-18
TransCanada PipeLines Limited	M12X004	Dawn	Parkway	50,000	01-Sep-11	31-Aug-21
TransCanada PipeLines Limited	M12X005	Dawn	Parkway	78,316	01-Sep-11	31-Aug-21
Enbridge Gas Distribution Inc.	M12X006	Dawn	Parkway	200,000	01-Nov-12	31-Oct-22
TransCanada PipeLines Limited	M12X013	Dawn	Parkway	62,695	01-Nov-12	31-Oct-23
1425445 Ontario Limited o/a Utilities Kingston	M12X015	Dawn	Parkway	5,000	01-Apr-14	31-Mar-24

UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association ("BOMA")

Reference: Ibid, Page 9

"Long term demand growth will be shaped by future environmental policies and their impacts on the power sector demand of growth".

- a) Is Union referring to US long-term demand growth, and the continuing replacement of coal-fired power by gas-fired power? If so, what are the principle driver(s) for Union's/EGD's franchise gas consumption growth? Please explain fully.
- b) Please provide the ICF projections that support Figure 4 for July 2016.
- c) Has Union had discussions with TCPL with respect to its "fixed price option" transportation service from WCSB, which has recently been discussed in the press and in EGD's 2017 rates submission. Would Union contract for this service in the next few years if it were available, on economic terms, given the recent increase in gas supply in Western Canada?

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**Response:**

- a) The long-term demand growth underpinning the ICF projections considers demand impacts across North America. Future demand growth in Eastern Canada is attributable to the recovery of industrial demand and incremental growth in power demand (due to both load growth and planned nuclear plant refurbishments and retirements).
- b) Please see Table 1 below for the ICF projections that support Figure 4 for July 2016.

Table 1

<b>Year</b>	<b>Henry Hub \$ USD/MMBTU</b>
2010	4.74
2011	4.24
2012	2.86
2013	3.82
2014	4.38
2015	2.60
2016	2.19
2017	3.21
2018	2.98
2019	3.34
2020	3.68
2021	3.71
2022	3.93
2023	3.83
2024	3.89
2025	3.92
2026	4.25
2027	4.32
2028	4.56
2029	4.48
2030	4.73
2031	4.82
2032	5.08
2033	5.08
2034	5.15
2035	5.12

- c) TransCanada PipeLine (“TransCanada”) provided Union with an overview of the proposed Dawn Long-Term Fixed Price (“LTFP”) service prior to the open season being issued. Based on Union’s review of the open season materials, the proposed LTFP service includes different terms, including pricing and contract duration, than originally described to Union.

Union chose not to participate in the LTFP open season. Union is not a targeted customer of the proposed LTFP service as it is primarily being marketed to meet WCSB producer needs. The long-term commitment requested by TransCanada is not required to underpin any facility expansions on the Mainline and would reduce contracting flexibility in Union’s transportation portfolio. In addition, the proposed LTFP service does not provide the same attributes as a firm transportation (“FT”) service on the Mainline, including diversion rights and alternate receipt points that can be used to reach Ontario or export markets.

The Western Canadian Sedimentary Basin (“WCSB”) continues to represent a significant portion of Union’s gas supply portfolio either directly through purchases at Empress (with TransCanada Mainline transportation) and at Chicago (with Vector transportation). In addition, purchases in Michigan and at Dawn may also be gas originating from the WCSB. If the proposed LTFP service is ultimately subscribed and approved by the National Energy Board (“NEB”), Union would have the ability to purchase natural gas transported via the LTFP service that lands at Dawn or in Michigan.

Union is concerned that the proposed LTFP service is unfair or inequitable for existing Mainline Shippers given that a significant discount is being offered to a specific segment of the market. Union is also concerned that the proposed LTFP service toll and terms have been developed to eliminate or reduce the likelihood of new pipeline infrastructure being built from Appalachia into Michigan (and subsequently using existing facilities to get to Dawn).

UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association (“BOMA”)

Reference: Ibid, Page 11

- a) Please explain in detail how Union manages risk to customers by contracting transportation for terms ranging from one to sixteen years.
  - b) How does Union plan to avoid stranded transportation and storage assets in the event the Ontario government moves aggressively to reduce natural gas space heating, water heating, and power generation load in Ontario?
- 

**Response:**

- a) Exhibit A, Tab 3, Appendix C and D show that Union currently holds contracts of durations between one and sixteen years in its portfolio. Contract term diversity allows Union to balance the need for short-term flexibility with the need for longer term commitments to be made by the utility.

Union will typically contract for a shorter term (1-5 years) for existing pipeline capacity which provides the flexibility needed to reduce contracted amounts annually should the capacity no longer be required or alternate paths become more competitive. To ensure it has renewal rights on contracts that underpin the firm obligations of the utility, Union contracts for terms of three years or greater on TransCanada, as renewal rights are only available for contracts greater than two years in duration.

Union also holds contracts with long-term durations. These contracts are typically required to underpin long-term, capital-based facilities expansions. For example, Union holds TransCanada short haul contracts from Parkway to Union EDA and from Parkway to Union NDA that required a fifteen year commitment to support the facilities builds. The contract with a sixteen year duration is the Kirkwall to (amended) Union CDA contract which commenced November 1, 2016.

- b) Union maintains an upstream transportation portfolio with diversified contract terms which provides flexibility in managing fluctuations in gas supply requirements. If the future years' forecasted demand requirements result in a need to reduce transportation contract commitments, Union will actively reduce the amount of transportation contracted through the annual gas supply planning process.



Union is the owner/operator of storage facilities at the Dawn Hub and in-franchise customers are allocated a portion of this storage to meet their seasonal gas supply needs. In the event the storage requirements of in-franchise customers are reduced and the space is no longer required, Union will remarket this storage capacity.

UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association (“BOMA”)

Reference: Ibid, Page 12

Union states that one of its gas supply principles is to receive gas at various delivery points on its system, yet it receives almost all of its gas supplies at Dawn, with very modest amounts at Ojibway and Niagara, and off the TCPL mainline in Union North West. Please explain why Union does not plan to acquire more gas at Niagara and Ojibway, especially at Niagara.

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**Response:**

In the Application for Pre-Approval of the Cost Consequences of NEXUS Long-Term Contract (“NEXUS”) proceeding (EB-2015-0166/EB-2015-0175), at Exhibit B.T2.Union.Staff.17, Union provided the following response related to Niagara supply,

*“... the upstream pipelines that provide supply to Niagara are largely sold out and significant incremental infrastructure would be required to import any substantial additional Marcellus and Utica natural gas into Ontario (beyond 2015/2016) at Niagara or Chippawa. Union expects that significant incremental infrastructure would also be required on the TransCanada system to move natural gas from Niagara further into Ontario (beyond the current 2015/2016 volume of 1.4TJ/d).”*

There has been no change to the pipeline capacities in the Niagara region since the NEXUS proceeding. However, Natural Fuel Gas (“NFG”)/Empire Pipeline expansions into Niagara that were planned for 2016 have been delayed to 2017.

In the Panhandle Reinforcement proceeding at EB-2016-0186, Exhibit B.FRPO.2, Union stated that Panhandle System incremental deliveries at Ojibway are not available and would also not provide sufficient incremental capacity into the growing market area without the need for significant incremental facilities. Ojibway, like Niagara, is not a liquid trading point. It is also a trans-shipment point between pipeline systems; in this case between the Panhandle Eastern Pipe Line (“PEPL”) system in Michigan and Union’s Panhandle System. Upstream and downstream transportation capacity at Ojibway is held by a limited number of counterparties. Purchasing gas at Ojibway would be subject to availability and significant price risk.

UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association ("BOMA")

Reference: Ibid, Page 13

*"The effectiveness of delivered supply to minimize pipeline facilities will depend on system hydraulics".*

Please explain this sentence, and provide examples of how and where on its system the effectiveness of delivered supply in reducing the need for pipeline facilities is constrained by hydraulics. Please define "hydraulics" (in this context) as part of the answer.

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**Response:**

The behaviour of gas flow and pressure within a pipeline system (referred to as system hydraulics) is related to demand, supply and operational changes.

*"The effectiveness of delivered supply to minimize pipeline facilities depends on system hydraulics"* means that supply must be able enter Union's system and be delivered to a location on the pipeline system where benefit will be realized on design day. The system must also be able to accept the supply during times of the year when the system's capability is lower (for example, due to reduced demand in the summer or reduction of compressor capability due to warmer weather). The supply must also be obligated and guaranteed to arrive when it is required.

Receiving gas at Ojibway is an example where Union firm sales service supply has reduced (or delayed) required facilities on the Panhandle System. There is a limit on the system benefits of gas imports availability at Ojibway due to a reduced market during the summer and a constrained ability to transport gas from Ojibway to Dawn.

Another example of the effectiveness of deliveries to minimize facilities is the obligated delivery of gas at Parkway on the Dawn Parkway System. This service has reduced the number of facilities required on the Dawn Parkway System.

UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association ("BOMA")

Reference: Ibid, Page 14

*"The outcome of the annual planning process is a five-year plan that provides a monthly volumetric forecast of supplies (by transportation path) and demands and a forecast of Union's costs to serve its sales service and bundled DP customers".*

Please provide a copy of the current five year plan.

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**Response:**

Please see Attachment 1 for the five year plan, which is calculated from April 2016 to March 2021. The gas year runs from November to October, as a result in this context only 4 full calendar years can be provided.

UNION GAS LIMITED  
2016/17 Gas Supply Plan Memorandum  
Union Gas Limited - System Sales Supply Demand Balance - 2016/2017 to 2019/2020

Line No.	Particulars (TJ)	2016/2017 (a)	2017/2018 (b)	2018/2019 (c)	2019/2020 (d)
	<u>South</u>				
	Demands				
1	System Sales	132,768	132,348	132,031	131,915
2	South Co. Use, UFG, Comp. Fuel	11,281	12,617	12,582	12,574
3	Less: Customer Supplied Fuel	(8,239)	(8,982)	(9,150)	(9,245)
4	Total Demands	135,810	135,983	135,463	135,244
	Supplies				
5	TCPL Empress-Union CDA	4,585	1,076	1,076	1,079
6	Alliance/Vector	-	-	-	-
7	Vector	40,689	30,807	30,807	30,892
8	TCPL Niagara-Kirkwall	7,702	7,702	7,702	7,723
9	Trunkline	7,702	-	-	-
10	Panhandle	14,249	13,478	13,478	13,515
11	Local Production	465	465	465	467
12	DTE	23,105	-	-	-
13	Market Based Transport	-	-	-	-
14	South Ojibway	7,702	7,702	7,702	-
15	Dawn	30,570	36,764	36,562	43,819
16	NEXUS	-	38,510	38,510	38,615
17	Total Supplies	136,769	136,505	136,303	136,110
18	Change in Inventory - wd/(inj)	(959)	(523)	(840)	(867)
19	Total Supplies + Inventory Change	135,810	135,983	135,463	135,244
	<u>North</u>				
	Demands				
	System Sales				
20	Union NCDA	3,212	3,234	3,241	3,242
21	Union EDA	12,739	12,716	12,578	12,581
22	Union MDA	489	495	513	514
23	Union NDA	14,636	14,588	14,683	14,683
24	Union SSMDA	5,101	5,104	3,642	3,629
25	Union WDA	8,094	8,118	8,089	8,090
26	North Comp Fuel	234	234	234	234
		44,503	44,488	42,979	42,973
	Supplies				
27	TCPL Empress-Union NCDA	2,002	2,013	264	261
28	TCPL Empress-Union EDA	334	334	334	335
29	TCPL Empress-Union MDA	489	495	514	514
30	TCPL Empress-Union NDA	2,047	2,057	334	335
31	TCPL Empress-Union SSMDA	2,821	2,823	1,763	1,192
32	TCPL Empress-Union WDA	7,208	7,284	7,127	7,529
33	TCPL Parkway-Union EDA	5,949	5,700	6,225	6,510
34	TCPL Parkway-Union NDA	2,063	2,378	3,552	3,248
35	North Vector Sale	19,255	-	-	-
36	North Nexus Sale	-	19,255	19,255	19,308
37	Dawn North	2,159	1,528	2,088	2,088
38	Total Supplies	44,329	43,867	41,456	41,319
39	Change in Inventory - wd/(inj)	174	105	(75)	(13)
40	Total Supplies + Inventory Change	44,503	43,972	41,381	41,306
41	Total Demands	135,810	135,983	135,463	135,244
42	North	44,503	44,488	42,979	42,973
		180,312	180,470	178,442	178,216
43	Total Supplies	136,769	136,505	136,303	136,110
44	North	44,329	43,867	41,456	41,319
		181,097	180,372	177,758	177,429
45	Change in Inventory - wd/(inj)	(959)	(523)	(840)	(867)
46	South	174	105	(75)	(13)
		(785)	(418)	(915)	(880)
47	Total Supplies + Inventory Change	180,312	179,954	176,844	176,549

UNION GAS LIMITED  
2016/17 Gas Supply Plan Memorandum  
Union Gas Limited - System Sales Supply Demand Balance - 2016/2017

Line No.	Particulars (TJ)	Nov-16 (a)	Dec-16 (b)	Jan-17 (c)	Feb-17 (d)	Mar-17 (e)	Apr-17 (f)	May-17 (g)	Jun-17 (h)	Jul-17 (i)	Aug-17 (j)	Sep-17 (k)	Oct-17 (l)	Total (m)
	<u>South</u>													
	Demands													
1	System Sales	13,355	19,882	22,659	20,228	17,438	10,894	6,066	3,604	3,489	3,550	3,842	7,760	132,768
2	South Co. Use, UFG, Comp. Fuel	848	1,033	1,692	1,934	1,597	809	464	447	512	545	676	725	11,281
3	Less: Customer Supplied Fuel	(788)	(1,006)	(1,224)	(1,057)	(947)	(755)	(401)	(386)	(429)	(343)	(367)	(537)	(8,239)
4	Total Demands	13,416	19,909	23,127	21,105	18,088	10,947	6,129	3,665	3,572	3,752	4,150	7,948	135,810
	Supplies													
5	TCPL Empress-Union CDA	618	638	339	307	339	328	339	328	339	339	328	339	4,585
6	Alliance/Vector	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Vector	3,198	5,267	5,267	4,757	5,267	2,374	2,453	2,374	2,453	2,453	2,374	2,453	40,689
8	TCPL Niagara-Kirkwall	633	654	654	591	654	633	654	633	654	654	633	654	7,702
9	Trunkline	633	654	654	591	654	633	654	633	654	654	633	654	7,702
10	Panhandle	1,171	1,210	1,210	1,093	1,210	1,171	1,210	1,171	1,210	1,210	1,171	1,210	14,249
11	Local Production	38	40	40	36	40	38	40	38	40	40	38	40	465
12	DTE	1,899	1,962	1,962	1,772	1,962	1,899	1,962	1,899	1,962	1,962	1,899	1,962	23,105
13	Market Based Transport	-	-	-	-	-	-	-	-	-	-	-	-	-
14	South Ojibway	633	654	654	591	654	633	654	633	654	654	633	654	7,702
15	Dawn	1,161	1,200	1,200	1,084	1,200	3,466	3,582	3,466	3,582	3,582	3,466	3,582	30,570
16	NEXUS	-	-	-	-	-	-	-	-	-	-	-	-	-
17	Total Supplies	9,984	12,279	11,980	10,821	11,980	11,176	11,549	11,176	11,549	11,549	11,176	11,549	136,769
18	Change in Inventory - wd/(inj)	3,432	7,630	11,146	10,284	6,108	(229)	(5,419)	(7,511)	(7,977)	(7,796)	(7,026)	(3,600)	(959)
19	Total Supplies + Inventory Change	13,416	19,909	23,127	21,105	18,088	10,947	6,129	3,665	3,572	3,752	4,150	7,948	135,810
	<u>North</u>													
	Demands													
	System Sales													
20	Union NCDA	320	468	592	493	403	254	140	88	82	77	95	198	3,212
21	Union EDA	1,250	1,776	2,316	1,985	1,644	1,053	586	371	314	300	381	762	12,739
22	Union MDA	50	72	91	77	64	40	21	12	11	10	13	28	489
23	Union NDA	1,464	2,130	2,670	2,237	1,858	1,208	687	394	361	340	402	884	14,636
24	Union SSMDA	380	540	675	583	530	326	839	582	206	109	113	218	5,101
25	Union WDA	805	1,144	1,407	1,211	989	659	433	285	243	242	229	446	8,094
26	North Comp Fuel	10	3	10	5	3	15	32	31	32	32	31	32	234
		4,279	6,134	7,761	6,591	5,491	3,554	2,739	1,762	1,248	1,111	1,263	2,569	44,503
	Supplies													
27	TCPL Empress-Union NCDA	179	185	185	168	-	180	186	180	186	186	180	186	2,002
28	TCPL Empress-Union EDA	30	31	31	28	-	30	31	30	31	31	30	31	334
29	TCPL Empress-Union MDA	53	78	99	84	69	39	17	7	5	4	8	26	489
30	TCPL Empress-Union NDA	183	189	190	172	-	184	190	184	190	190	184	190	2,047
31	TCPL Empress-Union SSMDA	415	554	-	-	-	330	554	524	134	37	63	209	2,821
32	TCPL Empress-Union WDA	949	1,246	1,403	777	74	763	476	291	238	239	238	515	7,208
33	TCPL Parkway-Union EDA	554	576	529	432	-	551	527	623	551	503	504	600	5,949
34	TCPL Parkway-Union NDA	169	168	216	240	-	168	215	96	192	240	216	144	2,063
35	North Vector Sale	1,583	1,635	1,635	1,477	1,635	1,583	1,635	1,583	1,635	1,635	1,583	1,635	19,255
36	North Nexus Sale	-	-	-	-	-	-	-	-	-	-	-	-	-
37	Dawn North	-	-	-	-	-	303	313	303	313	313	303	313	2,159
		4,115	4,662	4,289	3,378	1,778	4,131	4,145	3,820	3,475	3,379	3,308	3,849	44,329
38	Total Supplies	4,115	4,662	4,289	3,378	1,778	4,131	4,145	3,820	3,475	3,379	3,308	3,849	44,329
39	Change in Inventory - wd/(inj)	164	1,472	3,472	3,213	3,713	(576)	(1,406)	(2,058)	(2,227)	(2,268)	(2,045)	(1,280)	174
40	Total Supplies + Inventory Change	4,279	6,134	7,761	6,591	5,491	3,554	2,739	1,762	1,248	1,111	1,263	2,569	44,503
	Total Demands													
41	South	13,416	19,909	23,127	21,105	18,088	10,947	6,129	3,665	3,572	3,752	4,150	7,948	135,810
42	North	4,279	6,134	7,761	6,591	5,491	3,554	2,739	1,762	1,248	1,111	1,263	2,569	44,503
		17,695	26,044	30,888	27,696	23,580	14,501	8,868	5,427	4,820	4,863	5,414	10,517	180,312
	Total Supplies													
43	South	9,984	12,279	11,980	10,821	11,980	11,176	11,549	11,176	11,549	11,549	11,176	11,549	136,769
44	North	4,115	4,662	4,289	3,378	1,778	4,131	4,145	3,820	3,475	3,379	3,308	3,849	44,329
		14,099	16,942	16,269	14,199	13,759	15,307	15,694	14,996	15,024	14,927	14,485	15,398	181,097
	Change in Inventory - wd/(inj)													
45	South	3,432	7,630	11,146	10,284	6,108	(229)	(5,419)	(7,511)	(7,977)	(7,796)	(7,026)	(3,600)	(959)
46	North	164	1,472	3,472	3,213	3,713	(576)	(1,406)	(2,058)	(2,227)	(2,268)	(2,045)	(1,280)	174
		3,596	9,102	14,619	13,497	9,821	(805)	(6,825)	(9,569)	(10,203)	(10,064)	(9,071)	(4,881)	(785)
47	Total Supplies + Inventory Change	17,695	26,044	30,888	27,696	23,580	14,501	8,868	5,427	4,820	4,863	5,414	10,517	180,312

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Line No.	Particulars (TJ)	Nov-17 (a)	Dec-17 (b)	Jan-18 (c)	Feb-18 (d)	Mar-18 (e)	Apr-18 (f)	May-18 (g)	Jun-18 (h)	Jul-18 (i)	Aug-18 (j)	Sep-18 (k)	Oct-18 (l)	Total (m)
	<u>South</u>													
	Demands													
1	System Sales	13,358	19,833	22,581	20,173	17,384	10,854	6,038	3,583	3,471	3,529	3,818	7,726	132,348
2	South Co. Use, UFG, Comp. Fuel	1,060	1,516	1,874	2,030	1,807	867	485	467	534	558	720	699	12,617
3	Less: Customer Supplied Fuel	(788)	(1,006)	(1,350)	(1,222)	(1,035)	(833)	(438)	(435)	(479)	(377)	(424)	(595)	(8,982)
4	Total Demands	13,630	20,343	23,104	20,982	18,155	10,888	6,085	3,614	3,527	3,710	4,115	7,830	135,983
	Supplies													
5	TCPL Empress-Union CDA	88	91	91	83	91	88	91	88	91	91	88	91	1,076
6	Alliance/Vector	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Vector	2,532	2,617	2,617	2,363	2,617	2,532	2,617	2,532	2,617	2,617	2,532	2,617	30,807
8	TCPL Niagara-Kirkwall	633	654	654	591	654	633	654	633	654	654	633	654	7,702
9	Trunkline	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Panhandle	1,108	1,145	1,145	1,034	1,145	1,108	1,145	1,108	1,145	1,145	1,108	1,145	13,478
11	Local Production	38	40	40	36	40	38	40	38	40	40	38	40	465
12	DTE	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Market Based Transport	-	-	-	-	-	-	-	-	-	-	-	-	-
14	South Ojibway	633	654	654	591	654	633	654	633	654	654	633	654	7,702
15	Dawn	3,229	3,336	3,336	3,013	3,336	2,876	2,972	2,876	2,972	2,972	2,876	2,972	36,764
16	NEXUS	3,165	3,271	3,271	2,954	3,271	3,165	3,271	3,165	3,271	3,271	3,165	3,271	38,510
17	Total Supplies	11,426	11,807	11,807	10,665	11,807	11,074	11,443	11,074	11,443	11,443	11,074	11,443	136,505
18	Change in Inventory - wd/(inj)	2,203	8,536	11,297	10,317	6,348	(186)	(5,358)	(7,459)	(7,916)	(7,733)	(6,959)	(3,613)	(523)
19	Total Supplies + Inventory Change	13,630	20,343	23,104	20,982	18,155	10,888	6,085	3,614	3,527	3,710	4,115	7,830	135,983
	<u>North</u>													
	Demands													
	System Sales													
20	Union NCDA	325	472	586	502	402	255	143	93	83	78	95	200	3,234
21	Union EDA	1,264	1,789	2,316	1,987	1,644	1,041	585	370	306	292	369	750	12,716
22	Union MDA	51	74	92	77	64	40	21	12	12	11	14	29	495
23	Union NDA	1,466	2,126	2,657	2,227	1,849	1,187	682	388	364	344	407	890	14,588
24	Union SSMDA	382	541	675	584	529	322	842	582	206	109	113	218	5,104
25	Union WDA	821	1,159	1,409	1,214	991	654	434	285	242	241	226	444	8,118
26	North Comp Fuel	10	3	10	5	3	15	32	31	32	32	31	32	234
		4,319	6,164	7,745	6,596	5,483	3,513	2,738	1,761	1,245	1,106	1,256	2,563	44,488
	Supplies													
27	TCPL Empress-Union NCDA	181	187	187	169	-	181	187	181	187	187	181	187	2,013
28	TCPL Empress-Union EDA	30	31	31	28	-	30	31	30	31	31	30	31	334
29	TCPL Empress-Union MDA	53	79	100	84	69	40	17	6	6	5	9	27	495
30	TCPL Empress-Union NDA	185	191	191	172	-	185	191	185	191	191	185	191	2,057
31	TCPL Empress-Union SSMDA	415	556	-	-	-	326	556	525	135	38	64	209	2,823
32	TCPL Empress-Union WDA	876	1,263	1,026	1,270	40	767	487	300	244	245	243	523	7,284
33	TCPL Parkway-Union EDA	527	457	580	439	-	443	460	537	515	539	590	614	5,700
34	TCPL Parkway-Union NDA	166	263	145	218	-	306	296	204	252	228	149	150	2,378
35	North Vector Sale	-	-	-	-	-	-	-	-	-	-	-	-	-
36	North Nexus Sale	1,583	1,635	1,635	1,477	1,635	1,583	1,635	1,583	1,635	1,635	1,583	1,635	19,255
37	Dawn North	-	-	-	-	-	214	221	214	221	221	214	221	1,528
		4,015	4,661	3,894	3,856	1,744	4,074	4,082	3,765	3,416	3,321	3,248	3,789	43,867
38	Total Supplies	4,015	4,661	3,894	3,856	1,744	4,074	4,082	3,765	3,416	3,321	3,248	3,789	43,867
39	Change in Inventory - wd/(inj)	252	1,453	3,804	2,700	3,739	(597)	(1,400)	(2,050)	(2,218)	(2,260)	(2,040)	(1,277)	105
40	Total Supplies + Inventory Change	4,267	6,114	7,699	6,556	5,483	3,477	2,682	1,715	1,199	1,060	1,208	2,513	43,972
	Total Demands													
41	South	13,630	20,343	23,104	20,982	18,155	10,888	6,085	3,614	3,527	3,710	4,115	7,830	135,983
42	North	4,319	6,164	7,745	6,596	5,483	3,513	2,738	1,761	1,245	1,106	1,256	2,563	44,488
		17,949	26,507	30,849	27,578	23,638	14,401	8,823	5,375	4,771	4,816	5,370	10,393	180,470
	Total Supplies													
43	South	11,426	11,807	11,807	10,665	11,807	11,074	11,443	11,074	11,443	11,443	11,074	11,443	136,505
44	North	4,015	4,661	3,894	3,856	1,744	4,074	4,082	3,765	3,416	3,321	3,248	3,789	43,867
		15,442	16,469	15,701	14,521	13,551	15,148	15,525	14,839	14,859	14,763	14,322	15,232	180,372
	Change in Inventory - wd/(inj)													
45	South	2,203	8,536	11,297	10,317	6,348	(186)	(5,358)	(7,459)	(7,916)	(7,733)	(6,959)	(3,613)	(523)
46	North	252	1,453	3,804	2,700	3,739	(597)	(1,400)	(2,050)	(2,218)	(2,260)	(2,040)	(1,277)	105
		2,455	9,988	15,101	13,017	10,087	(783)	(6,757)	(9,510)	(10,134)	(9,993)	(8,999)	(4,890)	(418)
47	Total Supplies + Inventory Change	17,897	26,457	30,803	27,538	23,638	14,365	8,767	5,329	4,725	4,770	5,322	10,343	179,954

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Line No.	Particulars (TJ)	Nov-18 (a)	Dec-18 (b)	Jan-19 (c)	Feb-19 (d)	Mar-19 (e)	Apr-19 (f)	May-19 (g)	Jun-19 (h)	Jul-19 (i)	Aug-19 (j)	Sep-19 (k)	Oct-19 (l)	Total (m)
	<u>South</u>													
	Demands													
1	System Sales	13,321	19,799	22,570	20,155	17,363	10,832	6,012	3,556	3,450	3,502	3,787	7,683	132,031
2	South Co. Use, UFG, Comp. Fuel	1,069	1,514	1,870	2,026	1,803	863	481	463	530	554	716	695	12,582
3	Less: Customer Supplied Fuel	(815)	(1,020)	(1,370)	(1,286)	(1,043)	(834)	(438)	(439)	(484)	(381)	(438)	(603)	(9,150)
4	Total Demands	13,575	20,293	23,070	20,895	18,123	10,860	6,055	3,580	3,496	3,675	4,065	7,775	135,463
	Supplies													
5	TCPL Empress-Union CDA	88	91	91	83	91	88	91	88	91	91	88	91	1,076
6	Alliance/Vector	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Vector	2,532	2,617	2,617	2,363	2,617	2,532	2,617	2,532	2,617	2,617	2,532	2,617	30,807
8	TCPL Niagara-Kirkwall	633	654	654	591	654	633	654	633	654	654	633	654	7,702
9	Trunkline	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Panhandle	1,108	1,145	1,145	1,034	1,145	1,108	1,145	1,108	1,145	1,145	1,108	1,145	13,478
11	Local Production	38	40	40	36	40	38	40	38	40	40	38	40	465
12	DTE	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Market Based Transport	-	-	-	-	-	-	-	-	-	-	-	-	-
14	South Ojibway	633	654	654	591	654	633	654	633	654	654	633	654	7,702
15	Dawn	3,273	3,382	3,382	3,055	3,382	2,816	2,910	2,816	2,910	2,910	2,816	2,910	36,562
16	NEXUS	3,165	3,271	3,271	2,954	3,271	3,165	3,271	3,165	3,271	3,271	3,165	3,271	38,510
17	Total Supplies	11,471	11,853	11,853	10,706	11,853	11,014	11,381	11,014	11,381	11,381	11,014	11,381	136,303
18	Change in Inventory - wd/(inj)	2,104	8,440	11,217	10,189	6,270	(154)	(5,326)	(7,434)	(7,885)	(7,706)	(6,949)	(3,606)	(840)
19	Total Supplies + Inventory Change	13,575	20,293	23,070	20,895	18,123	10,860	6,055	3,580	3,496	3,675	4,065	7,775	135,463
	<u>North</u>													
	Demands													
	System Sales													
20	Union NCDA	326	473	587	504	403	256	143	93	83	78	95	201	3,241
21	Union EDA	1,247	1,767	2,293	1,967	1,626	1,027	576	361	305	291	369	749	12,578
22	Union MDA	53	76	96	79	67	42	22	13	11	11	14	29	513
23	Union NDA	1,475	2,137	2,680	2,247	1,866	1,198	687	393	363	343	406	889	14,683
24	Union SSMDA	382	529	650	550	466	291	197	92	86	83	102	215	3,642
25	Union WDA	818	1,153	1,405	1,210	987	650	431	283	241	240	226	443	8,089
26	North Comp Fuel	10	3	10	5	3	15	32	31	32	32	31	32	234
		4,310	6,139	7,721	6,563	5,417	3,478	2,087	1,265	1,121	1,078	1,242	2,558	42,979
	Supplies													
27	TCPL Empress-Union NCDA	30	31	31	28	-	30	31	22	5		26	31	264
28	TCPL Empress-Union EDA	30	31	31	28	-	30	31	30	31	31	30	31	334
29	TCPL Empress-Union MDA	55	81	104	86	72	42	19	8	6	5	9	27	514
30	TCPL Empress-Union NDA	30	31	31	28	-	30	31	30	31	31	30	31	334
31	TCPL Empress-Union SSMDA	414	557	-	-	-	295	175	36	15	12	53	206	1,763
32	TCPL Empress-Union WDA	973	1,262	793	1,270	34	762	484	298	243	244	242	521	7,127
33	TCPL Parkway-Union EDA	667	565	679	414	-	650	521	435	480	567	591	655	6,225
34	TCPL Parkway-Union NDA	263	408	288	476	-	293	368	340	340	253	205	319	3,552
35	North Vector Sale	-	-	-	-	-	-	-	-	-	-	-	-	-
36	North Nexus Sale	1,583	1,635	1,635	1,477	1,635	1,583	1,635	1,583	1,635	1,635	1,583	1,635	19,255
37	Dawn North	-	-	-	-	-	293	302	293	302	302	293	302	2,088
38	Total Supplies	4,045	4,602	3,592	3,808	1,741	4,008	3,598	3,073	3,088	3,081	3,061	3,760	41,456
39	Change in Inventory - wd/(inj)	111	1,390	3,975	2,632	3,676	(685)	(1,646)	(1,971)	(2,116)	(2,153)	(1,961)	(1,327)	(75)
40	Total Supplies + Inventory Change	4,155	5,992	7,567	6,439	5,417	3,323	1,952	1,101	972	929	1,100	2,433	41,381
	Total Demands													
41	South	13,575	20,293	23,070	20,895	18,123	10,860	6,055	3,580	3,496	3,675	4,065	7,775	135,463
42	North	4,310	6,139	7,721	6,563	5,417	3,478	2,087	1,265	1,121	1,078	1,242	2,558	42,979
		17,885	26,432	30,791	27,458	23,541	14,339	8,142	4,845	4,617	4,753	5,307	10,333	178,442
	Total Supplies													
43	South	11,471	11,853	11,853	10,706	11,853	11,014	11,381	11,014	11,381	11,381	11,014	11,381	136,303
44	North	4,045	4,602	3,592	3,808	1,741	4,008	3,598	3,073	3,088	3,081	3,061	3,760	41,456
		15,516	16,455	15,445	14,514	13,595	15,022	14,979	14,087	14,469	14,463	14,075	15,141	177,758
	Change in Inventory - wd/(inj)													
45	South	2,104	8,440	11,217	10,189	6,270	(154)	(5,326)	(7,434)	(7,885)	(7,706)	(6,949)	(3,606)	(840)
46	North	111	1,390	3,975	2,632	3,676	(685)	(1,646)	(1,971)	(2,116)	(2,153)	(1,961)	(1,327)	(75)
		2,215	9,830	15,191	12,821	9,946	(838)	(6,972)	(9,405)	(10,001)	(9,859)	(8,910)	(4,933)	(915)
47	Total Supplies + Inventory Change	17,731	26,285	30,636	27,334	23,541	14,183	8,007	4,681	4,468	4,604	5,165	10,208	176,844



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Line No.	Particulars (TJ)	Nov-19 (a)	Dec-19 (b)	Jan-20 (c)	Feb-20 (d)	Mar-20 (e)	Apr-20 (f)	May-20 (g)	Jun-20 (h)	Jul-20 (i)	Aug-20 (j)	Sep-20 (k)	Oct-20 (l)	Total (m)
	<u>South</u>													
	Demands													
1	System Sales	13,269	19,735	22,570	20,155	17,363	10,832	6,012	3,556	3,450	3,502	3,787	7,683	131,915
2	South Co. Use, UFG, Comp. Fuel	1,064	1,510	1,870	2,026	1,803	863	481	463	530	554	716	695	12,574
3	Less: Customer Supplied Fuel	(840)	(1,044)	(1,370)	(1,332)	(1,043)	(834)	(438)	(439)	(484)	(381)	(438)	(603)	(9,245)
4	Total Demands	13,493	20,202	23,070	20,849	18,123	10,860	6,055	3,580	3,496	3,675	4,065	7,775	135,244
	Supplies													
5	TCPL Empress-Union CDA	88	91	91	86	91	88	91	88	91	91	88	91	1,079
6	Alliance/Vector	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Vector	2,532	2,617	2,617	2,448	2,617	2,532	2,617	2,532	2,617	2,617	2,532	2,617	30,892
8	TCPL Niagara-Kirkwall	633	654	654	612	654	633	654	633	654	654	633	654	7,723
9	Trunkline	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Panhandle	1,108	1,145	1,145	1,071	1,145	1,108	1,145	1,108	1,145	1,145	1,108	1,145	13,515
11	Local Production	38	40	40	37	40	38	40	38	40	40	38	40	467
12	DTE	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Market Based Transport	-	-	-	-	-	-	-	-	-	-	-	-	-
14	South Ojibway	-	-	-	-	-	-	-	-	-	-	-	-	-
15	Dawn	3,818	3,945	3,818	3,690	3,945	3,449	3,564	3,449	3,564	3,564	3,449	3,564	43,819
16	NEXUS	3,165	3,271	3,271	3,060	3,271	3,165	3,271	3,165	3,271	3,271	3,165	3,271	38,615
17	Total Supplies	11,382	11,762	11,635	11,003	11,762	11,014	11,381	11,014	11,381	11,381	11,014	11,381	136,110
18	Change in Inventory - wd/(inj)	2,111	8,440	11,435	9,846	6,361	(154)	(5,326)	(7,434)	(7,885)	(7,706)	(6,949)	(3,606)	(867)
19	Total Supplies + Inventory Change	13,493	20,202	23,070	20,849	18,123	10,860	6,055	3,580	3,496	3,675	4,065	7,775	135,244
	<u>North</u>													
	Demands													
	System Sales													
20	Union NCDA	326	474	587	504	403	256	143	93	83	78	95	201	3,242
21	Union EDA	1,247	1,770	2,293	1,967	1,626	1,027	576	361	305	291	369	749	12,581
22	Union MDA	53	76	96	79	67	42	22	13	11	11	14	29	514
23	Union NDA	1,475	2,136	2,680	2,247	1,866	1,198	687	393	363	343	406	889	14,683
24	Union SSMDA	369	529	650	550	466	291	197	92	86	83	102	215	3,629
25	Union WDA	818	1,154	1,405	1,210	987	650	431	283	241	240	226	443	8,090
26	North Comp Fuel	10	3	10	5	3	15	32	31	32	32	31	32	234
		4,300	6,142	7,721	6,563	5,417	3,478	2,087	1,265	1,121	1,078	1,242	2,558	42,973
	Supplies													
27	TCPL Empress-Union NCDA	30	31	31	29	-	30	31	22	-		26	31	261
28	TCPL Empress-Union EDA	30	31	31	29	-	30	31	30	31	31	30	31	335
29	TCPL Empress-Union MDA	56	81	104	86	72	42	19	8	6	5	9	27	514
30	TCPL Empress-Union NDA	30	31	31	29	-	30	31	30	31	31	30	31	335
31	TCPL Empress-Union SSMDA	401	-	-	-	-	295	175	36	15	12	53	206	1,192
32	TCPL Empress-Union WDA	971	1,261	1,406	1,062	34	762	484	298	243	244	242	521	7,529
33	TCPL Parkway-Union EDA	758	549	565	573	-	648	566	557	525	463	567	738	6,510
34	TCPL Parkway-Union NDA	192	405	409	317	-	282	295	260	272	378	243	196	3,248
35	North Vector Sale	-	-	-	-	-	-	-	-	-	-	-	-	-
36	North Nexus Sale	1,583	1,635	1,635	1,530	1,635	1,583	1,635	1,583	1,635	1,635	1,583	1,635	19,308
37	Dawn North	-	-	-	-	-	293	302	293	302	302	293	302	2,088
		4,050	4,024	4,213	3,655	1,741	3,993	3,569	3,115	3,060	3,103	3,075	3,719	41,319
38	Total Supplies	4,050	4,024	4,213	3,655	1,741	3,993	3,569	3,115	3,060	3,103	3,075	3,719	41,319
39	Change in Inventory - wd/(inj)	112	1,948	3,361	2,748	3,676	(685)	(1,646)	(1,971)	(2,116)	(2,153)	(1,961)	(1,327)	(13)
40	Total Supplies + Inventory Change	4,162	5,972	7,574	6,404	5,417	3,309	1,923	1,144	944	950	1,114	2,393	41,306
	Total Demands													
41	South	13,493	20,202	23,070	20,849	18,123	10,860	6,055	3,580	3,496	3,675	4,065	7,775	135,244
42	North	4,300	6,142	7,721	6,563	5,417	3,478	2,087	1,265	1,121	1,078	1,242	2,558	42,973
		17,793	26,344	30,791	27,412	23,541	14,339	8,142	4,845	4,617	4,753	5,307	10,333	178,216
	Total Supplies													
43	South	11,382	11,762	11,635	11,003	11,762	11,014	11,381	11,014	11,381	11,381	11,014	11,381	136,110
44	North	4,050	4,024	4,213	3,655	1,741	3,993	3,569	3,115	3,060	3,103	3,075	3,719	41,319
		15,433	15,786	15,847	14,658	13,503	15,007	14,950	14,129	14,441	14,484	14,089	15,100	177,429
	Change in Inventory - wd/(inj)													
45	South	2,111	8,440	11,435	9,846	6,361	(154)	(5,326)	(7,434)	(7,885)	(7,706)	(6,949)	(3,606)	(867)
46	North	112	1,948	3,361	2,748	3,676	(685)	(1,646)	(1,971)	(2,116)	(2,153)	(1,961)	(1,327)	(13)
		2,222	10,388	14,796	12,595	10,037	(838)	(6,972)	(9,405)	(10,001)	(9,859)	(8,910)	(4,933)	(880)
47	Total Supplies + Inventory Change	17,655	26,174	30,643	27,253	23,541	14,169	7,978	4,724	4,440	4,625	5,179	10,168	176,549

UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association (“BOMA”)

Reference: Ibid, Page 17

In Figure 6, please explain the following items:

Non-obligated (e.g. Power Plants)	212
Ontario Parkway	286
Ontario Dawn	482

Does the Ontario Dawn correspond to the "Dawn/Uncommitted 22%" in Figure 10 on page 21?  
If not, what are the differences?

---

**Response:**

Figure 6 represents the resources available to meet Union’s design day in Union South. The non-obligated, Ontario Parkway and Ontario Dawn supplies are all part of the Union South design day calculation.

- The non-obligated line item is the portion of the power plant supply that needs to be delivered only if the customer plans to burn gas on that day. The Design Day demand includes non-obligated contract demand and assumes incremental gas deliveries to match the demand.
- Ontario Parkway represents the obligated Daily Contract Quantity (“DCQ”) for direct purchase customers delivering gas at Parkway.
- Ontario Dawn represents both the obligated DCQ for direct purchase customers delivering gas at Dawn as well as the planned Dawn/Uncommitted purchases.

Figure 10 demonstrates the sources of supply underpinned by Union’s transportation portfolio for Union South sales service customers on an average day. The “Dawn/Uncommitted 22%” figure represents the annual amount of system supply being purchased at Dawn with respect to the average day plan.

UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association (“BOMA”)

Reference: Ibid, Page 33

What steps will Union take to deal with injection and removal from storage if TCPL is successful in its bid to raise its STS toll in RH-001-2016?

---

**Response:**

Union is awaiting the National Energy Board (“NEB”) Decision on TransCanada Pipeline’s (“TransCanada”) RH-001-2016 application. Until the Decision is rendered, it is not known whether the NEB will approve the application as filed, deny the application entirely, or approve some variation of what TransCanada has requested.

Without an NEB Decision, Union is unable to identify what specific steps it would take to adjust its upstream transportation portfolio in order to serve Union North customers. Union would use the most recent information available at the time to analyze various options, including, but not limited to, the cost of the transportation and related gas supply, as well as the flexibility offered by the available service offerings, all in the context of Union’s Gas Supply Planning Principles.

UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association ("BOMA")

Reference: Ibid, Appendix B, System Sales Supply Demand Balance

- a) Please show the supply demand balance for Union EDA. The stated amounts under North EDA "Demands" and "Supplies" do not match.
- b) Please explain the "North Vector Sale" and its significance in the supply demand balance.
- c) Please distinguish between "Panhandle" and "South Ojibway".
- d) Please show in detail the amounts of gas that Union, or its affiliates, accepts at each delivery point in the Sarnia/Dawn area. Please provide a map showing each delivery point, the US pipelines that connect directly with that delivery point, the planned volume that will enter through that point, and the route from that point to Dawn.
- e) Please explain the DTE supply. When was the supply contracted? How and where does it enter Canada? Please provide a map, showing the DTE pipeline route and its connection with Union.
- f) Please explain the Kirkwall/CBA TCPL contract. Is that gas sourced in Marcellus/Utica? When did the contract commence?
- g) Please explain the "Other" Suppliers, in particular, which US pipeline match up with these Canadian side arrangements? Is it Vector, Michigan, Generic and DTE? Please explain.

---

**Response:**

- a) Part of the Union EDA demand is met through TransCanada PipeLine ("TransCanada") contracted capacity with the remainder met through Vector contracted capacity. The North Vector Supply contract is delivered to Dawn and then to the North East delivery area from Parkway.

	(TJ)
Demand – Union North EDA	12,739
Supply - TCPL Empress-Union EDA	334
Supply - TCPL Parkway-Union EDA	<u>5,949</u>
<b>North Vector Supply</b>	<b>6,456</b>

- b) North Vector Sale is the portion of Vector supply that has been allocated to the Union North East Zone. As noted in part a) above, the North Vector Supply contract is delivered to Dawn and then to the Union North East delivery area from Parkway.
- c) Panhandle refers to supply purchased in the Panhandle Eastern Pipe Line (“PEPL”) Field Zone. South Ojibway refers to the supply that is being purchased at the Ojibway interconnect between PEPL and Union on the Union system.
- d) Please see Attachment 1 for a map of the Sarnia/Dawn area.

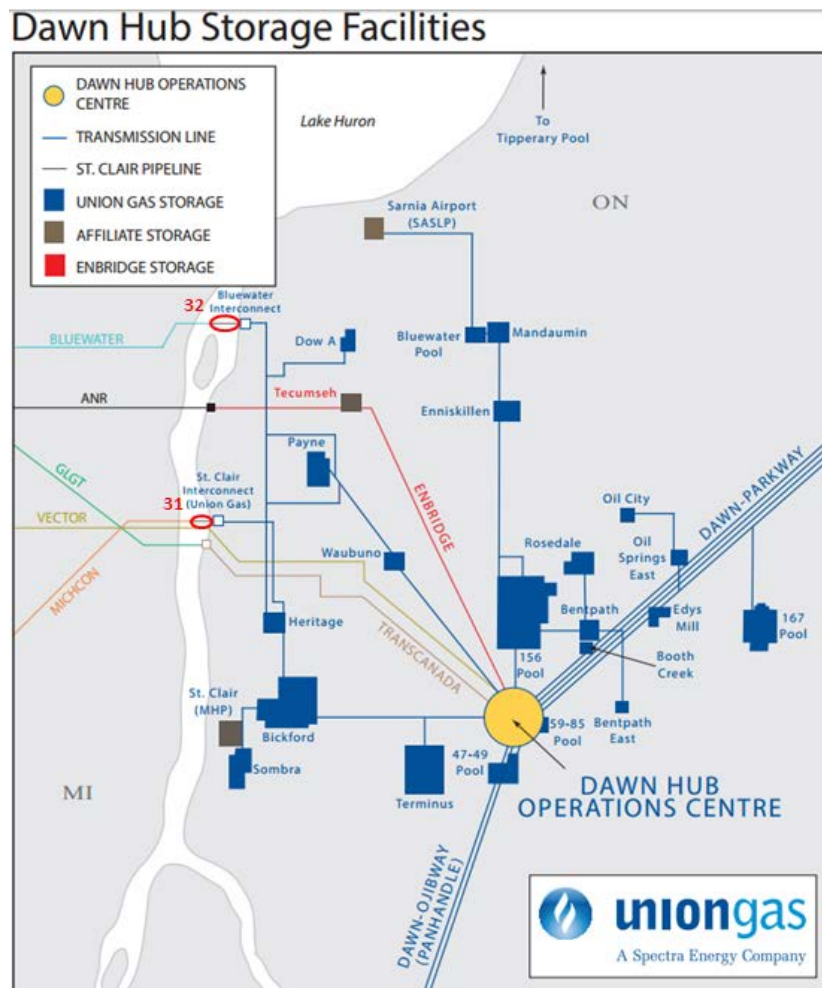
In the gas supply plan, Union accepts supply from the DTE (MichCon) pipeline at the St. Clair delivery point and supply from the Vector Pipeline at the Vector/Dawn or Vector/Courtright delivery points. The DTE (MichCon) volumes feed into the Sarnia Market. The average annual planned volume is 63 TJ/d. The Vector volumes can be accepted into the Sarnia Market or can be accepted at Dawn. The average annual planned volume is 164 TJ/d.

The Sarnia/Dawn area is supplied through four directly connected third-party pipelines. The Sarnia Expansion Pipeline Project evidence, EB-2014-0333, Exhibit A, Section 2, pp. 4-10 provides an explanation of each pipeline.

- e) Union purchased a transportation contract for 60,000 Dth/day (63,303 GJ/day) from DTE to transport gas sourced in Michigan to Union’s system at the St. Clair interconnect. Please see Figure 1 below for a map that depicts the interconnection of the DTE (MichCon) facilities with the Union system at the St. Clair interconnect. Please see Attachment 2 for detailed map of the DTE (MichCon) transportation system.

The contract started December 1, 2015 and will end the earlier of the NEXUS pipeline in-service date or October 31, 2018. For more details on the contract including capacity history, rationale for purchase, contract parameters and incremental contracting form, please refer to EB-2016-0118, Exhibit A, Tab 4, Page 16 to 18.

Figure 1  
Union Gas Dawn Hub Storage Facilities

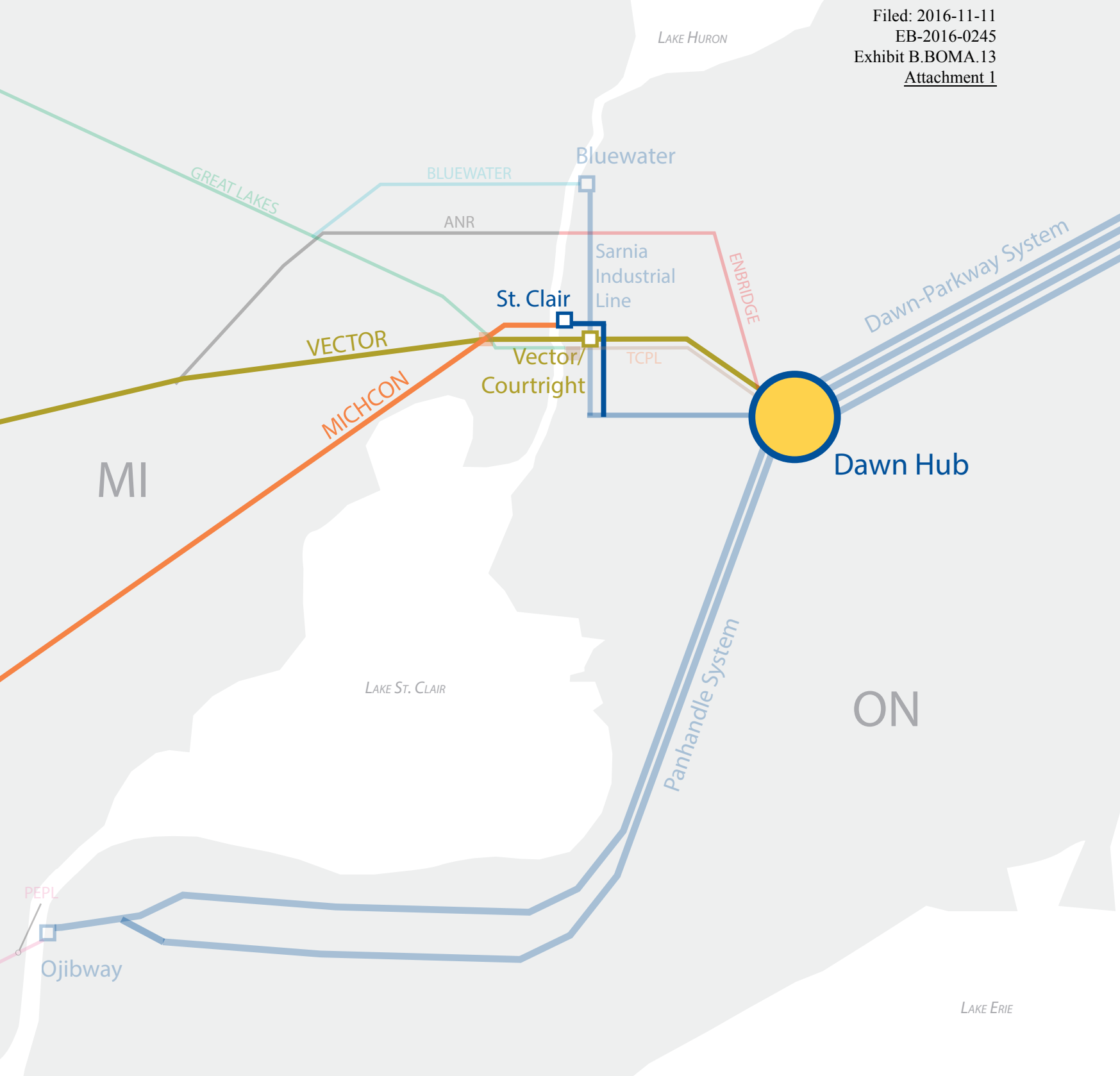


- f) The Kirkwall to Union CDA contract is a contract with TransCanada used to redeliver supply from the Union Dawn Parkway System to customers located in the TransCanada (amended) Union CDA delivery area. This contract commenced November 1, 2016 with the completion of Union's Burlington-Oakville Pipeline Project. The source of gas that will flow from Kirkwall to the (amended) Union CDA cannot be specifically identified. Union can use gas flowing out of or through Dawn delivered at Kirkwall, gas received at Kirkwall from the TransCanada system or, in some instances, gas received at Parkway flowing westerly to Dawn.

- g) The “Other” Suppliers listed on Exhibit A, Tab 3, Appendix C, “Summary of November 1, 2016 Upstream Transportation Contracts – Southern Operations Area” are Union’s contracts with St. Clair Pipelines L.P. for transportation service across the St. Clair River.

The contract on line 31, “St. Clair Pipelines L.P. (St. Clair Pipelines)”, is a contract for 214,000 GJ/day of capacity from the DTE (Michcon) interconnect at the international border under the St. Clair River to Union’s system at the St. Clair Valve Site on the Canadian side of the St. Clair River. Please see Figure 1 above for a visual of this interconnection (circled in red and marked 31). On this map, the DTE (Michcon) pipeline is shown in peach colour and terminates at the International Boundary within the St. Clair River where it connects to the St. Clair Pipelines assets.

The contract on line 32, “St. Clair Pipelines L.P. (Bluewater Pipeline)”, is a contract for 127,000 GJ/day of capacity from the interconnect of the St. Clair Pipelines and Bluewater Gas Storage (Michigan) systems at the International Border within the St. Clair River to a valve site connected to Union’s system at the Sarnia Industrial Line. Please see Figure 1 above for a visual of this interconnection between Union’s system and the St. Clair Pipelines (Bluewater Pipeline) system (circled in red and marked 32). On this map, the Bluewater Gas Storage pipeline is shown in light blue colour and terminates at the International Border within the St. Clair River where it connects to the St. Clair Pipelines (Bluewater Pipeline) assets.





KEY

ANR

- 1 ALPENA/NORTH HAMILTON: 9001  
6 COLUMBUS: 9100, 9410  
7 CRYSTAL FALLS: 9003  
8 DETROIT: 9004, 9319, 9407  
19 KALKASKA: 9460, 9480, 9481  
23 LOREED LUDINGTON: 9014  
28 MENOMINEE: 9017, 9070  
48 WILLOW: 9038, 9307, 9438  
49 WOOLFOLK: 9039, 9324, 9439

BLUEWATER

- 3 BLUEWATER: 9206, 9311, 9406

CONSUMERS ENERGY

- 31 NORTHVILLE: 9023, 9423, 9458

DTE GAS STORAGE

- 47 WASHINGTON 10: 9140, 9310, 9440

GREAT LAKES GAS TRANSMISSION

- 2 BELLE RIVER MILLS: 9002, 9301, 9422  
11 GAYLORD: 9010  
25 MACKINAW: 9015  
32 PETOSKEY: 9025  
33 RAPID RIVER: 9026  
38 SAGOLA: 9403

MICHIGAN CONSOLIDATED GAS

- 27 MCGC STORAGE: 9036, 9437

MICHIGAN GAS UTILITIES

- 13 GRAND HAVEN: 9336

PANHANDLE EASTERN PIPELINE

- N/A PEPL-MICHCON 9028, 9303

- 35 RIVER ROUGE: 9428  
39 SCOFIELD: 9232  
42 SOUTHERN: 9490

SEMCO

- 10 EAST CHINA: 9574  
40 SEMCO: 9141

UNION

- 44 ST. CLAIR: 9035, 9435, 9459

VECTOR PIPELINE

- 45 VECTOR BELLE RIVER: 9136, 9308, 9436  
46 VECTOR MILFORD JUNCTION: 9137, 9237, 9309

PRODUCTION

- 4 CHERRY VALLEY: 9393  
5 CHESTONIA: 9457  
9 EAST CALEDONIA: 9323, 9432  
12 GOODWELL: 9335  
14 HART: 9364  
15 HAYES: 9365  
16 HINTON: 9367  
17 ISABELLA: 9380, 9387  
18 JORDAN: 9468  
20 LENOX: 9369, 9370  
21 LINCOLN: 9372, 9373  
22 LOGAN: 9318, 9374  
24 LYON: 9376  
26 MANCELONA: 9478  
29 MENTOR: 9312, 9379  
30 NEW HAVEN: 9395  
34 RENO: 9317, 9381  
36 ROMEO PRODUCTION-MCGC: 9108  
37 ROSE LAKE: 9382  
41 SHERMAN: 9383  
42 SOUTHERN: 9490  
43 SPRINGFIELD: 9384  
44 ST. CLAIR: 9035, 9435, 9459  
45 VECTOR BELLE RIVER: 9136, 9308, 9436  
46 VECTOR MILFORD JUNCTION: 9137, 9237, 9309  
47 WASHINGTON 10: 9140, 9310, 9440  
48 WILLOW: 9038, 9307, 9438  
49 WOOLFOLK: 9039, 9324, 9439

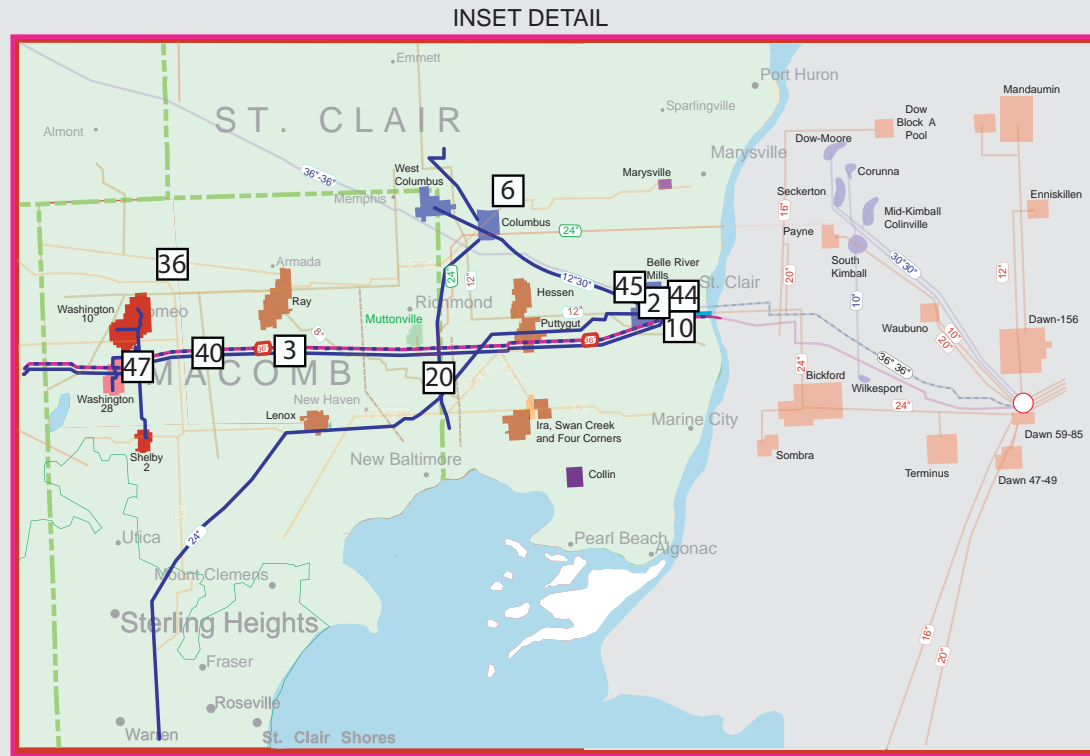
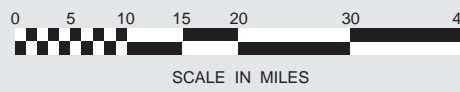
- RECEIPT POINTS  
DELIVERY POINTS  
POOLS



MICHIGAN GAS TRANSMISSION

2009 EDITION

CANADA



MAJOR PIPELINES

- MICHIGAN CONSOLIDATED GAS COMPANY  
CONSUMERS ENERGY COMPANY  
ANR PIPELINE COMPANY  
ANR STORAGE COMPANY  
GREAT LAKES GAS TRANSMISSION COMPANY  
PANHANDLE EASTERN PIPE LINE COMPANY  
SEMCO ENERGY COMPANY  
NORTHERN NATURAL GAS COMPANY  
MICHIGAN GAS UTILITIES  
AURORA GAS COMPANY  
VECTOR PIPELINE COMPANY  
VECTOR LEASE LINE

NOTE:  
DASHED PIPELINES REPRESENT MAJOR DISTRIBUTION PIPELINES

STORAGE FIELDS

- ANR PIPELINE COMPANY  
ANR STORAGE COMPANY  
BATTLE CREEK COMPANY  
BLUE LAKE GAS STORAGE COMPANY  
CONSUMERS ENERGY COMPANY  
EATON RAPIDS GAS STORAGE SYSTEM  
LEE & STORAGE PARTNERSHIP  
MICHIGAN CONSOLIDATED GAS COMPANY / DTE ENERGY  
SEMCO ENERGY  
AQUILA NETWORKS-AGU  
MID MICHIGAN GAS STORAGE COMPANY  
SOUTHWEST GAS STORAGE  
MID MICHIGAN GAS STORAGE  
SOUTH ROMEO GAS STORAGE CORPORATION  
WASHINGTON 10 STORAGE

COMPILED BY MICHIGAN CONSOLIDATED GAS COMPANY  
SEPTEMBER, 2009

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ILLINOIS

INDIANA

OHIO



UNION GAS LIMITED

Answer to Interrogatory from  
Building Owners and Managers Association ("BOMA")

Reference: Ibid, Page 6

- a) Please explain the relationship between Union Gas Supply Plan and its Storage and Transportation Plan.
- b) Please identify if in the evidence, or provide if not in the evidence, the Storage and Transportation Plan.
- c) Please confirm that Union's Transportation and Storage Plan does not include the upstream transportation requirements for bundled customers in the South "since they must acquire their own transportation". Yet Union states that "these customers are included in the DSP". Please explain.
- d) Please explain whether the Transportation and Storage Plan must acquire transportation and storage service for facilities for T-service customers, or just provide for storage capacity via storage service contracts, upon request.

---

**Response:**

a) Gas Supply Plan

For Union South, the gas supply plan determines the amount of upstream transportation and supply required to meet the annual demand requirements. The annual volume is divided by 365 days such that the upstream pipe flows at 100% utilization each day of the year. During the summer when demands are lower than the upstream supply, gas is injected into storage at Dawn and in the winter when demands are greater than the upstream supply, gas is withdrawn from storage. This plan utilizes the volume of gas arriving on upstream pipelines at the various contracted receipt points as well as gas stored on behalf of Union South customers.

For Union North, the gas supply plan also determines the amount of upstream transportation and supply required to meet the design day requirements in the six Union North delivery areas. The plan provides input into the transportation plan by indicating the amount of Union North volume required to be shipped on Union's Dawn Parkway System on design day and into the storage plan by indicating the amount of gas required to be stored on behalf of Union North customers.

### Transmission Planning Process

The transmission system planning process determines the design day transportation requirements, on Union-owned assets, for all Union South and ex-franchise customers, and provides transportation for a portion of Union North customers. The process identifies the volume required at Dawn to supply Union's transmission systems and identifies any shortfall in system capacity. If the transmission assets are not sufficient to meet design day requirements, Union will seek to build additional assets through facility applications or will purchase commercial services to manage this shortfall.

### Storage Planning Process

The storage planning process incorporates output from the gas supply plan and the Transmission planning process to determine the storage assets required at Dawn. If the storage assets are not sufficient to meet design day and seasonal requirements, Union will seek to build additional assets or purchase commercial services to meet this shortfall.

- b) The Storage and Transmission planning processes culminate in facilities applications, when required, to be considered by the Ontario Energy Board. Examples of these include Panhandle Reinforcement Project (EB-2016-0186), 2017 Dawn Parkway Project (EB-2015-0200), and 2016 Dawn Parkway Expansion Project (EB-2014-0261). As a result, an annual report or plan similar to the Gas Supply Memorandum is not required.
- c) The transmission and storage planning processes do not include planning for any upstream transportation requirements.

Bundled direct purchase customers are included in the gas supply plan in order to track supplies by delivery point and determine the appropriate level of direct purchase balancing required.

- d) Union's transportation planning process does not include planning for upstream transportation for T-service customers. Union's storage planning process includes the storage service requirements as per the T-service customer's contracts.

UNION GAS LIMITED

Answer to Interrogatory from  
Canadian Manufacturers & Exporters ("CME")

Reference: Rate Order Working Paper, Schedule 3, page 1 of 2

Union has provided a summary of the 2017 proposed rates which includes the percentage rate increases Excluding the Customer-Related GHG Obligation. That schedule shows a 30% increase for Rate M9, a 21.9% rate increase for Rate 20 and a 59.4% increase for Rate 25. CME wishes to better understand why these three rates are increasing, on a percentage basis, so significantly. Please set out all of the drivers for the rate increases for each of these three rates.

---

**Response:**

The Rate 20 and Rate 25 average transportation and storage rates have not increased, but rather decreased by 21.9% and 59.4%, respectively, per Rate Order, Working Papers, Schedule 3, p. 2. Please see the response at Exhibit B.BOMA.2 c) for an explanation of the Union North transportation and storage rate decreases.

The drivers contributing to the average unit rate changes for all rate classes can be found at Rate Order, Working Papers, Schedule 5.

UNION GAS LIMITED

Answer to Interrogatory from  
Energy Probe Research Foundation (“Energy Probe”)

Reference: Exhibit A, Tab 1, Page 7; Working Papers Schedule 10 Rate Order App G

Preamble: The Board approved capital pass-through treatment on Union’s Leave-To-Construct (LTC) applications for the LTC projects. Union has included the Board-approved 2017 costs for each of the proceedings in 2017 rates.

a) For each of the projects:

1. Parkway West Project – EB-2012-0433;
2. Brantford-Kirkwall / Parkway D Project – EB-2013-0074;
3. Dawn Parkway 2016 System Expansion Project – EB-2014-0261;
4. Burlington Oakville Pipeline Project – EB-2014-0182; and,
5. 2017 Dawn Parkway Project – EB-2015-0200.
6. H/Lobo D/Bright C Compressor Project (EB-2015-0020)

Please provide in *Tabular Form* for completed projects:

- the actual in-service date(s)
- Approved capital costs
- Capital cost at completion and
- the amounts recorded in each of the associated project deferral/variance accounts that are to be disposed in the 2017 deferral account proceeding

b) For any projects that are scheduled to be completed in 2016 and are forecasted to be completed in 2017, please provide in tabular form:

- The actual or forecast in service date(s)
- Approved capital costs
- Estimated capital cost at completion
- The Revenue Requirement placeholder in 2017 rates; and
- Amounts recorded or forecast to be recorded in the relevant project deferral/variance account(s)

c) Please reconcile the above data to the Working Papers in Schedule 10 and to the relevant project deferral/variance accounts.

---

**Response:**

- a) and b) Please see the response at Staff.3 a).
- c) Please see the response at Staff.3 a). The 2017 revenue requirements at Attachment 1 in Staff.3 a), line 4 are equal to the 2017 revenue requirements provided at Rate Order Working Papers, Schedule 10, p. 2, line 26. The approved revenue requirement for each capital-pass through project can also be found in Appendix G of Union's 2017 Rates application. The Parkway Projects 2017 revenue requirement of \$32.6 million is the sum of the 2017 revenue requirements for the Parkway West project of \$17.2 million (Exhibit A, Rate Order, Appendix G, p. 1, line 12, column. (e)) and the Brantford-Kirkwall/ Parkway D project of \$15.4 million (Exhibit A, Rate Order, Appendix G, p. 2, line 12, column. (c)).

Lines 5-7 of Attachment 1 show the approved 2016 revenue requirements in 2016 Rates for each project, the estimated 2016 revenue requirements and the estimated 2016 deferral account balances, respectively. Actual 2016 deferral account balances will be determined at year-end when Union has the actual 2016 revenue requirements for each project and will be filed as part of Union's annual non-commodity deferral account disposition application in 2017.

UNION GAS LIMITED

Answer to Interrogatory from  
Energy Probe Research Foundation (“Energy Probe”)

Reference: Exhibit A, Tab 1, Page 6; Rate Order Appendix F Page 14; Deferral Account No. 179-126; Working Papers / Schedule 11; EB-2015-0116 Exhibit B.Staff.3

Preamble: The difference between the 2016 DSM Utility Incentive and the actual 2016 DSM Utility Incentive will be captured in the Demand Side Management Incentive Deferral Account (“DSMIDA”). The allocation to rate classes can be found at Working Papers, Schedule 11.

- a) Please confirm the 2017 DSM Utility Incentive amount is not included in rates.
  - b) Please confirm Union’s proposal is to use the DSMIDA to record the difference between the forecast and actual DSM Utility Incentive.
- 

**Response:**

- a) Confirmed.
- b) The preamble to the question references Rate Order, Working Papers, Schedule 11 which shows the allocation of the DSM budget to rate classes. As stated in Exhibit A, Tab 1, page 6, Section 3.2, *“the difference between the 2017 DSM budget and actual 2017 DSM budget will be captured in the Demand Side Management Variance Account (“DSMVA”).”*

The response to part a) confirms there is no DSM Incentive included in 2017 rates. The DSM Incentive Deferral account will include the full amount of the DSM Incentive earned in 2017, as there is no amount included in rates.

UNION GAS LIMITED

Answer to Interrogatory from  
Energy Probe Research Foundation (“Energy Probe”)

Reference: Exhibit A, Tab 1, Page 8; Working Papers Schedule 12; Rate Order Appendix F, Page 19, Deferral Account No. 179-133; EB-2015-0116 Exhibit B, FRPO.2, Attachments 1 and 2 and EB-2015-0116 Exhibit B, Energy Probe.5

Preamble: Consistent with the 2016 methodology, Union has adjusted the general service storage and delivery rates for the 2015 actual Normalized Average Consumption (NAC) using the Board-approved weather normal methodology blend of 50:50 (30-year average and 20-year declining trend). For 2017, the NAC adjustment is the variance between 2014 Actual NAC and 2015 Actual NAC, as seen in Rate Order, Working Papers, Schedule 12.

- a) Please Update EB-2015-0116 IRR FRPO 2 Attachments 1 and 2 for 2015 actuals.
- b) Please update Table 1 provided in EB-2015-0116 Energy Probe IRR Exhibit B, Energy Probe 5 and provide details on the drivers/reasons for the large 2015 and 2016 change in NAC for Rates M1 (4.0%) and R01 (5.7%).
- c) Please provide a discussion/analysis/estimate of the direction/trends related to 2015-2019 NAC adjustments based on Union’s DSM Plan, weather and other factors.
- d) Please provide any updates to DSM forecasts for the different rate classes.

---

**Response:**

- a) Please see Attachment 1 for the historic weather in Union South and Union North updated with the 2015 actual weather data. Please see Attachment 2 for the calculated weather normal for 2017.
- b) Please see updated Table 1 below.

Table 1

	Due to Weather *	Due to other Variables	Total Change in NAC
Rate M1	0.1%	-4.0%	-4.0%
Rate 01	-0.1%	-5.5%	-5.7%

\* The weather normal has changed from 2016 to 2017 by 0.1% in Union South and -0.3% in Union North.

Please see the response at Exhibit B.Staff.9 a) for a variance explanation by rate class.



- c) Please see the response at Exhibit B.Staff.9 a) for the main drivers impacting consumption. The energy efficiency related forces reduce consumption. For example, according to Union's Board-approved DSM Plan, the total throughput for general service rate classes (Rate M1, Rate M2, Rate 01 and Rate 10) in 2019 would be reduced by  $194.4 \times 10^6 \text{m}^3$ . The impact of the customer behavior (i.e. comfort desires in response to extreme change in weather conditions) and any energy savings initiatives conducted by the customer would be estimated once the actual consumption is verified. The actual NAC adjustment due to the weather normal updates going into year 2019 will be determined once the actual weather for years 2016 and 2017 are available.
- d) Please see Table 2 below for the DSM Savings Volume forecast by rate class from 2016 to 2019.

Table 2  
DSM Savings Volume from 2016 to 2019 by Rate Class

<b>Particulars (m<sup>3</sup>)</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>Total</b>
Rate 01	4,694,630	5,106,966	5,464,438	5,514,085	20,780,119
Rate 10	5,883,252	6,111,118	6,191,804	6,244,311	24,430,485
Rate M1	13,290,335	14,502,743	15,555,414	15,668,619	59,017,111
Rate M2	21,695,648	22,547,446	22,837,186	23,104,038	90,184,319
Total	45,563,865	48,268,272	50,048,844	50,531,053	194,412,034

UNION GAS LIMITED  
ACTUAL HEATING DEGREE DAYS FOR UNION SOUTH AND UNION NORTH

UNION SOUTH ACTUAL HEATING DEGREE DAY

Year	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Htg. Deg.Days</u>
1984	836	553	683	323	229	23	13	11	117	208	442	560	3,997
1985	793	667	523	279	126	62	8	12	80	240	413	722	3,926
1986	724	665	528	300	126	53	9	37	87	260	491	603	3,882
1987	707	634	492	282	131	24	5	26	70	339	407	566	3,684
1988	720	703	560	340	127	53	3	15	86	344	397	640	3,986
1989	614	679	581	382	168	35	3	17	101	252	472	849	4,154
1990	583	586	503	303	195	39	6	8	99	269	394	586	3,572
1991	735	562	498	276	101	17	4	5	118	230	469	616	3,631
1992	677	623	575	376	168	72	27	41	109	315	447	602	4,031
1993	666	715	619	343	167	50	2	9	143	305	448	637	4,105
1994	906	730	578	318	206	38	4	27	81	238	369	559	4,055
1995	647	696	499	403	152	21	11	2	116	217	514	708	3,987
1996	758	683	651	393	201	21	11	3	80	258	518	577	4,153
1997	743	573	559	371	266	30	14	27	84	264	481	595	4,005
1998	596	502	482	286	68	52	1	6	41	224	385	533	3,175
1999	743	537	556	302	101	29	2	14	64	262	373	572	3,554
2000	720	573	420	339	128	37	11	17	105	222	435	785	3,792
2001	677	585	571	287	118	36	12	2	95	236	322	526	3,469
2002	578	538	544	322	221	36	1	3	32	298	447	632	3,652
2003	796	699	568	361	196	48	5	5	74	277	386	575	3,988
2004	831	626	493	314	149	47	8	28	51	233	392	635	3,807
2005	762	611	612	312	189	12	2	4	33	228	396	677	3,838
2006	543	598	517	286	143	26	3	8	94	296	388	505	3,407
2007	644	735	518	353	120	19	8	9	55	151	460	627	3,700
2008	639	670	597	268	190	27	2	17	60	281	453	662	3,869
2009	819	596	518	308	144	50	17	20	67	296	361	629	3,824
2010	716	605	448	225	120	24	2	5	88	242	417	683	3,574
2011	779	636	573	337	142	26	0	4	77	243	344	534	3,695
2012	615	546	333	323	82	30	0	9	98	252	456	529	3,274
2013	645	633	572	359	123	41	8	16	95	227	479	677	3,875
2014	825	753	684	352	142	20	21	17	97	248	494	568	4,221
2015	792	857	612	334	99	35	10	16	47	245	349	440	3,834

# UNION NORTH ACTUAL HEATING DEGREE DAY

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Htg. Deg.Days
1984	1,027	670	799	356	296	90	35	36	208	311	554	793	5,175
1985	995	816	672	428	225	137	52	65	156	343	615	934	5,438
1986	947	815	671	363	192	132	37	77	198	384	630	730	5,175
1987	846	741	619	322	218	70	28	62	135	417	550	714	4,722
1988	934	904	728	427	192	100	16	52	166	422	514	863	5,317
1989	855	874	799	482	209	105	22	65	159	348	659	1,079	5,654
1990	780	785	662	410	274	96	34	47	186	386	527	807	4,994
1991	972	733	667	371	176	53	31	38	201	369	586	822	5,019
1992	906	811	766	480	232	136	93	94	181	411	592	789	5,489
1993	904	888	704	451	255	110	23	34	236	432	622	804	5,460
1994	1,180	903	675	463	258	75	33	82	136	306	503	680	5,294
1995	832	862	643	516	238	60	32	29	210	329	702	906	5,358
1996	1,016	875	793	526	294	67	50	39	130	366	634	761	5,550
1997	987	799	764	467	337	51	47	77	154	363	595	743	5,384
1998	852	610	646	361	141	87	24	29	131	327	517	732	4,457
1999	956	687	677	383	165	64	16	58	134	389	482	742	4,754
2000	936	726	559	440	212	114	42	47	179	330	533	948	5,065
2001	825	798	686	395	171	68	45	29	155	339	448	655	4,613
2002	784	707	744	449	303	84	14	29	101	442	614	736	5,007
2003	976	883	721	489	210	75	25	27	122	368	524	728	5,147
2004	1,090	743	637	456	268	111	39	85	95	332	509	851	5,216
2005	973	723	723	378	241	34	24	26	96	310	543	796	4,866
2006	728	786	628	356	183	59	14	45	166	381	485	641	4,473
2007	836	871	652	439	203	67	31	39	117	261	572	802	4,888
2008	807	822	736	379	271	68	20	37	142	349	537	871	5,040
2009	993	762	666	419	264	96	51	60	107	396	434	800	5,049
2010	851	718	505	318	162	77	8	25	170	338	506	784	4,462
2011	963	759	696	430	198	70	9	21	127	296	467	705	4,741
2012	795	663	487	417	160	45	7	31	161	329	551	721	4,367
2013	841	768	675	476	219	89	32	39	150	317	579	946	5,131
2014	989	859	814	474	219	67	47	48	161	331	622	730	5,361
2015	970	989	722	430	197	80	24	36	84	356	449	574	4,912

2017 50:50 Weather Normal

Year	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Htg. Deg.Days</u>
Union South	712	636	544	325	148	34	7	13	77	256	423	608	3,782
Union North	898	777	671	419	218	76	29	44	141	348	533	764	4,918

UNION GAS LIMITED

Answer to Interrogatory from  
Energy Probe Research Foundation (“Energy Probe”)

Reference: Exhibit A, Tab 2, Page 4 and Attachment 1; EB-2015-0200, Exhibit A, Tab 8, Schedule 1: Rate Order Working Papers Schedule 20, Pages 1-5; EB-2015-0116 Exhibit B.APPrO.4.

Preamble: Union is including the Parkway Delivery Commitment Incentive (PDCI) costs of \$16.6 million in rates effective January 1, 2017. Per the Settlement, Union has allocated the PDCI costs to rate classes consistent with the allocation of other PDO costs included in rates.

Union projects a shortfall at Parkway, as a result of the PDO shift, of 23 TJ/d between November 1, 2015 and October 31, 2016 and 13 TJ/d between November 1, 2016 and October 31, 2017 until sufficient M12 Dawn to Kirkwall capacity has been turned back.

- a) Please confirm the turn back volumes now projected for November 1, 2017 (67 TJ/day)
- b) Discuss in more detail changes that have occurred since EB-2015-0200, and provide an updated forecast surplus as of November 1, 2017 (TJ/d)
- c) Please explain the volume(s) used in the Sales Service PDCI Cost Calculation at Working Papers / Schedule 20 / p. 5.
- d) Why is the PDO for sales customers still 11 TJ/d at November 1 2017 as well as November 1 2018, rather than zero?
- e) Please explain Footnote 5: “The actual contract amount for November 1, 2016 is higher, but Union has turn back rights which are effective January, 2017”.
- f) What are the actual 2016 (estimate) and basis of the forecast rate year M12 turn back 2016 estimates generating the cost to M1 customers?

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**Response:**

- a) The forecasted turnback of 67 TJ/day is confirmed to be effective November 1, 2017.
- b) The difference between the 2017 Parkway Delivery Obligation (“PDO”) in the 2017 Dawn to Parkway project proceeding (EB-2015-0200), Exhibit A, Tab 8, Schedule 1, and Exhibit A, Tab 2, p. 4 and Attachment 1, is due to timing. The EB-2015-0200 evidence included

forecast contract changes for Union South direct purchase (“DP”) and T-service customers up to January 31, 2015. The starting PDO in Attachment 1 reflects further contract changes for Union South DP and T-service customers up to and including August 1, 2016.

- c) Please see part d) below. The contracts underpinning the 19 TJ/day are an 11 TJ/day contract from Empress to Union ECDA, which will be in place through October 31, 2017, and an 8 TJ/day contract from Dawn to Union ECDA, which will be in place through October 31, 2019.
- d) The Parkway Obligation for sales service customers is calculated based on the Union South gas supply portfolio firm transportation contracts to the Parkway area.

Union currently holds an 11 TJ/day contract from Empress to Union ECDA which will be in place through October 31, 2017. Effective November 1, 2017 this contract will be reduced to 3 TJ/day through to October 31, 2019.

Union also holds an 8 TJ/day contract from Dawn to Union ECDA which will be in place through October 31, 2019.

With the 3 TJ/day contracted from Empress to Union ECDA and the 8 TJ/day contracted from Dawn to Union ECDA, Union will have a total of 11,000 GJ/day (11 TJ/day) of capacity contracted at November 1, 2017 and November 1, 2018.

- e) Please see the response at Exhibit B.VECC.2.
- f) Union is forecasting M12 Dawn to Kirkwall turnback effective November, 2016 of the equivalent to 10 TJ/d Dawn to Parkway capacity per Exhibit A, Tab 2, Attachment 1, line 4. This forecast of M12 Dawn to Kirkwall turnback does not impact the PDO costs included in 2017 rates as Union is continuing to manage the Parkway shortfall associated with the 146 TJ/d of temporary available excess Dawn to Parkway capacity, which is no longer available. As of November 2016, there continues to be a Parkway shortfall of 13 TJ/d (please see Exhibit A, Tab 2, Attachment 1, line 5). Accordingly, the costs included in 2017 rates continue to be based on the PDO shift of 212 TJ/d, as described at Exhibit B.Staff.7 part c).

By November 2017, Union is forecasting sufficient M12 Dawn to Kirkwall turnback to provide an additional PDO reduction of 73 TJ/d, as shown at Exhibit A, Tab 2, Attachment 1, line 8. Should the forecast turnback be realized, Union will record the additional costs in the Parkway Obligation Rate Variance Deferral Account, as this account is used to record rate variances associated with the timing differences between the effective date of the PDO changes and the inclusion of the cost impacts in approved rates (January 1 of the following year).

The 2017 rate increase applicable to Rate M1 customers resulting from the PDO is related to the inclusion of PDCI costs in 2017 rates as well as updates to the Rate M12 Dawn to Parkway demand rate and fuel charges used to calculate the PDO costs.

UNION GAS LIMITED

Answer to Interrogatory from  
Energy Probe Research Foundation (“Energy Probe”)

Reference: Exhibit A, Tab 2, Page 4 and Attachment 1; EB-2015-0200 Exhibit A, Tab 8, Schedule 1: Rate Order Working Papers, Schedule 20, Pages 1-5;

Preamble: Union’s foreseeable options to manage the shortfall are:

- Request early ex-franchise turn-back of Dawn-Kirkwall contracts;
- Purchase a service from a third party; and,
- Allocate some portion of a future build that may not be completely sold out.

- a) Please discuss the viability of each of the listed options.
- b) Please provide updated cost estimates for each option and compare to the PDCI.

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**Response:**

- a) As outlined at Exhibit A, Tab 2, p. 5, lines 9-12, there is a projected shortfall for the period November 1, 2016 to October 31, 2017 of 13 TJ/day. No shortfall exists beyond November 1, 2017. Therefore, of the 3 options listed, the preferred alternative is to purchase a service from a third party.
- b) Should Union need to purchase a service from a third party to manage the shortfall at Parkway, it would be priced based on market prices in effect at the time of execution. Union’s best estimate of market cost at this time is equivalent to the M12 rate if purchased on a yearly basis. This is equivalent to the cost of the PDCI.



UNION GAS LIMITED

Answer to Interrogatory from  
Energy Probe Research Foundation (“Energy Probe”)

Reference: Exhibit A, Appendix B, Rate Order M1 and 01 Rate Schedules and Working Papers, Schedule 3; Exhibit A, Tab 3, Page 35.

Preamble: In order to prepare for customer communications and billing system changes in regards to implementing the province’s cap and trade market by on January 1, 2017, Union submitted an interim rate order to the Board on April 15, 2016 to obtain approval for a rate and corresponding separate line item bill presentment. The Board issued its decision on this request on July 29, 2016. In its decision, the Board provided direction on customer communications and also required the natural gas distributors to include the cost of cap and trade in delivery rates.

Union is in the process of complying with this decision. In addition, Union will be requesting approval for rate changes to recover the cost of cap and trade costs (related to customer and facility obligations) in its 2017 rates application.

- a) Please provide a copy of the Board Direction to Union regarding Customer GHG Commitments.
- b) What is the status regarding Union’s Customer GHG Charges/Billing implementation?
- c) Please provide an illustration of the Charges for Rates M1 and 01 using Union’s “best guess”. List relevant assumptions.
- d) What is/are Union’s expectation(s) regarding implementation/timing of Customer GHG Charges?
- e) Please provide a copy of Union’s GHG Compliance Plan in this proceeding as soon as available.
- f) Please provide any drafts or final versions of customer communications related to cap and trade.
- g) Please provide any analysis or assessments that the company has done in regards to the impact cap and trade will have on NAC going forward.

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**Response:**

- a) Please see Attachment 1 for a copy of the Board’s July 29, 2016 Decision in EB-2015-0363.

- b) Union is working towards the January 1, 2017 Cap-and-Trade implementation. Union will be prepared to bill rates which include the costs of Cap-and-Trade for January 1, 2017. Union is requesting interim rate approval of these rates from the Board by November 18, 2016 in order to facilitate this billing.
- c) In accordance with the Board's Regulatory Framework for the Assessment of Costs of Natural Gas Utilities' Cap-and-Trade Activities ("Framework"), Union will file its 2017 Compliance Plan on November 15, 2016. The Compliance Plan will include rate impacts for all in-franchise rate classes.
- d) Union expects to implement the rates reflecting its 2017 Cap-and-Trade Compliance Plan on an interim basis, effective January 1, 2017.
- e) As noted in part c) above, Union's 2017 Cap-and-Trade Compliance Plan will be filed November 15, 2016, subject to the confidentiality provisions outlined in the Framework.
- f) Customer communications and samples of communications will be filed with the 2017 Compliance Plan.
- g) Union is in the process of assessing and incorporating the impacts of Cap-and-Trade into its business processes. Union has not completed any analysis of the impact Cap-and-Trade may have on NAC during future years.

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## **BY E-MAIL AND WEB POSTING**

July 28, 2016

**TO: Enbridge Gas Distribution Inc., Natural Resource Gas Limited, Union Gas Limited and All Participants in EB-2015-0363**

**RE: Cap and Trade Framework for Natural Gas Utilities –  
Early Determination regarding Billing of Cap and Trade Related Costs and  
Customer Outreach - File No.: EB-2015-0363**

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The Ontario Energy Board (OEB) has made a determination on billing and customer outreach in relation to the Cap and Trade framework to be implemented by Enbridge Gas Distribution Inc. (Enbridge), Natural Resource Gas Limited (NRG) and Union Gas Limited (Union) (collectively “the Utilities”).

### **Background**

Ontario has passed legislation to establish a Cap and Trade program for the purposes of reducing greenhouse gas (“GHG”) emissions in Ontario<sup>1</sup>. Under the legislation, Ontario’s natural gas utilities will have greenhouse gas (GHG) emission compliance obligations for:

- Residential, commercial and industrial customers (excluding Large Final Emitters, defined as emitting > 25,000 tonnes CO<sub>2</sub>e per year) and natural gas generators
- Facilities owned or operated by natural gas distributors

<sup>1</sup> The *Climate Change and Low-Carbon Economy Act, 2016* (“*Climate Change Act*”) received Royal Assent on May 18, 2016 and Ontario Regulation 144/16, The Cap and Trade Program (“*Cap and Trade Regulation*”) was issued May 19, 2016.

In order to comply with the legislation, the Utilities will need to develop Compliance Plans to achieve their Cap and Trade obligations for both customer-related and facility-related obligations. The Compliance Plans will include a variety of measures such as GHG abatement activities and the purchase of emissions credits, either through auctions or other mechanisms. The OEB is responsible for assessing the cost effectiveness of the Utilities Compliance Plans for the purpose of cost recovery from ratepayers.

To facilitate its assessment of these costs, the OEB is developing a Regulatory Framework (the Framework). The Framework will provide guidance to the Utilities on the OEB's approach to assessing the costs of the Utilities' implementation of Cap and Trade and the recovery of those costs.

On May 25, 2016, the OEB issued a [Staff Discussion Paper](#) (the Discussion Paper) for comment, which outlined OEB staff's initial views on the key elements, issues and options for the development of a Cap and Trade Framework as it relates to natural gas utilities. Comments on the issues and proposals set out in the Discussion Paper were received from over 40 stakeholders, including the Utilities, from consumer groups representing residential, commercial and industrial gas users and from environmental organizations. All comments are posted on the [OEB's website](#).

The OEB has identified two issues that require early determination to facilitate the Utilities' implementation of the Cap and Trade Program by January 1, 2017. The Discussion Paper contained staff proposals on these issues. By way of letters dated April 15 and 21, 2016, Union and Enbridge indicated that they will need about six months to implement billing system changes to ensure they are ready to bill Cap and Trade related costs to customers when the Cap and Trade Program comes into effect January 1, 2017. In response to the Utilities' request the OEB has made this determination on billing for the recovery of Cap and Trade related costs and with respect to customer communications and outreach as set out in the OEB's May 25 letter.

## **Summary of the OEB Determinations**

### Billing

A determination on the billing issue requires that decisions be made on a number of underlying rate design questions. **The OEB has accepted staff's proposals on these matters as outlined in the Discussion Paper.** The Utilities are expected to ensure the necessary system changes have been made in accordance with its determination in order that rate design and billing determination is ready for implementation by January 1, 2017.

## Customer Outreach

The OEB has not adopted staff's proposal on customer outreach and messaging as set out in the Discussion Paper. **The OEB will not require the Utilities to have their communications approved by the OEB. Rather, the OEB will provide key messaging to be used by the Utilities to ensure consistent information is provided to all consumers.**

## **Discussion of Billing of Cap and Trade Costs**

Under the Cap and Trade program, each utility will need to develop a Compliance Plan to meet its GHG compliance obligations under the *Climate Change Act*. The Compliance Plan will include costs of:

- Facility-related obligations for measures related to GHG emissions from facilities owned or operated by the utilities
- Customer-related obligations for measures related to GHG emissions from natural gas-fired generators and residential, commercial and industrial customers who are not Large Final Emitters (LFEs) or voluntary participants
- Administration to meet compliance obligations

The OEB's determination addresses the two issues identified in the May 25 letter relating to the billing of the above noted costs; the type of rate and how the rate is to appear on natural gas bills.

This determination does not address the amount of the costs to be recovered or the actual rate impacts. These matters will be determined in a future rate hearing where the OEB will undertake a detailed review and assessment of the cost consequences of the Compliance Plan submitted by each of the natural gas utilities.

## Rate Design

In order to determine the type of rate, the OEB considered the issues of cost causation, cost allocation and rate design. The OEB notes that most stakeholders supported the approach on these matters as set out in the Discussion Paper.

**The OEB has determined that customer-related obligation costs will be recovered from all customers except Large Final Emitters (LFEs) and voluntary participants, who are responsible for managing their own compliance obligation.**

Customer related costs are driven by gas consumption, which causes the GHG emissions, and therefore should be allocated and recovered based on a customer's consumption. The OEB has determined that customer-related costs will be recovered through a volumetric (m<sup>3</sup>) rate charged to each customer based on their consumption.

This rate will be separately identified on the Utility tariff sheet. Given that the rate will not apply to LFEs and voluntary participants, the tariff sheet will indicate it should be applied "as applicable" similar to other charges which are not uniformly applied to a rate class. A separate customer-related rate on the tariff sheet will assist natural gas-fired generators who bid into the market. It will also provide the information necessary for large gas users who may qualify as voluntary participants to make decisions as to whether they wish to become voluntary participants.

**The OEB has determined that facility-related obligation costs will be recovered from all customers, as they are directly related to the delivery of natural gas to customers.**

Facility related costs will be allocated to rate classes based on consumption, given that the driver for GHG emissions is gas consumption. These costs will be recovered through a volumetric (m<sup>3</sup>) charge based on consumption.

The rate for facility-related costs will also be separately identified on the Utility tariff sheet so that customers may easily identify these costs, and to facilitate tracking and updating as needed.

**Administrative costs relating to the implementation and ongoing operation of the Cap and Trade Program will be allocated and recovered from all customers in the same manner as existing administrative costs.**

Most stakeholders supported the proposal in the Discussion Paper that administrative costs should be recovered from all customers. Stakeholders representing large gas users commented that a portion of these costs should not be borne by the LFEs or voluntary participants, as they would be incurring their own administrative costs to comply with the Cap and Trade Program. These stakeholders also commented that the load and associated GHG emissions from the LFEs and voluntary participants are not part of a utility's compliance obligation and that, as a result, their liability for the utility's administrative costs should be limited to those incurred in meeting facility-related GHG obligations only.

The OEB agrees that administrative costs will be incurred to support both facility-related

and customer-related obligations. While the exact quantum of the administrative costs is not known at this time, based on research conducted on the experience in other jurisdictions the OEB does not expect these costs to be sufficiently material to justify the cost and time involved in allocating administrative costs differently than is the case today for all of a utility's other administrative costs. The OEB may revisit this approach in the future, based on experience with the Utilities' implementation of the Cap and Trade Program and associated administrative costs.

### Billing

Having determined that there should be two volumetric charges related to the recovery of approved Cap and Trade costs, the next issue for determination is how these rates should be reflected on customers' natural gas bills. **The OEB has determined that charges related to the recovery of Cap and Trade Program costs will be included in the Delivery charge on the bill.**

Comments from the Utilities and commercial, institutional and industrial gas consumers suggested that Cap and Trade related costs should be a separate line item on the bill in order to provide greater transparency and visible price signals. Some residential consumer groups specifically stated that it was not necessary to reflect Cap and Trade Program costs as a separate line as long as customers were otherwise informed of the Cap and Trade Program and resulting costs.

The OEB has determined that charges to recover costs incurred by the Utility to meet its facility-related obligations will be included in the delivery charge on the customer bill. Under the Climate Change Act, the Utilities are responsible for GHG emissions related to the operation of their equipment and facilities, as is the case for any other LFE. These costs will be part of the utility's on-going business and should be reflected in the ongoing cost of doing business like all other utility costs of operation.

The OEB has also determined that costs incurred by the natural gas utilities to meet their customer-related obligations will be included as part of the Delivery charge on the customer's bills. This charge will be included for all customers other than LFEs and voluntary participants. The Utilities are required by the Climate Change Act to be responsible for the GHG emissions related to all natural gas delivered on their distribution systems and in order to comply with this obligation they will incur costs. While these costs are not specifically tied to the activity of operating a gas transmission or distribution system, they are an ongoing business obligation of a natural gas distributor under the *Climate Change Act*.

Stakeholders who support a separate line item argue that a separate line item is needed to provide greater transparency and appropriate pricing signals to customers. The OEB agrees that it is important to provide customers with the information they need to better understand energy costs so that they can make appropriate choices about their energy use.

The OEB will ensure that those customers who require more detailed information will have access to that information by requiring utilities to separately identify charges associated with the recovery of Cap and Trade Program compliance on the Utility's tariff sheet. Tariff sheets are available on the Utilities' websites. Utilities will also be required to include information on Cap and Trade in the description section of monthly customer bills. In addition, as discussed below under Communications, the Utilities will be expected to provide customers with ongoing information about the Cap and Trade Program in accordance with guidance provided by the OEB.

In the OEB's view, separating out Cap and Trade related costs as a line item on the bill is inconsistent with the manner in which all other ongoing costs of operating the utility are reflected on the bill. The public policy objective of the Cap and Trade Program is to reduce GHG emissions. For the vast majority of customers, a separate line item will not provide any form of meaningful price signal. Customers other than voluntary participants cannot avoid the Cap and Trade Program related costs which will be borne by the Utility and allocated to them. Costs associated with Cap and Trade Program compliance are part of the Utilities' cost of providing natural gas service similar to other delivery costs. In the OEB's view the most important driver of consumer behaviour is total price. This has been borne out by research that the OEB has undertaken in the past in relation to consumers' response to electricity bills. This research showed that low volume customers are much more focused on the total amount owing on their bill than individual line items.

Stakeholders representing large gas users, in particular LFEs, suggested that the charge should be separated to enable them to confirm that they had been charged the appropriate amounts, recognizing the different treatment of LFEs in relation to the recovery of customer-related obligation costs. Since the OEB is requiring separate rates on the utility tariffs, large gas users (such as LFEs and voluntary participants) will have access to the information necessary to determine the amount they will be/have been charged in any billing period for both facility-related and customer-related costs.



## **Customer Outreach and Key Messaging**

**The OEB has determined that in order to provide all Ontario natural gas consumers with consistent information, Utilities will be expected to use a set of key messages in their customer communications which will be provided by the OEB.** The OEB will not require Utilities' customer communications to be approved before they are issued.

Stakeholders had a variety of views regarding consumer communications. Ratepayer and industry groups generally supported staff's proposal that the OEB review and approve each utility's proposed communications strategy. One residential consumer group supported a comprehensive effort on the part of the OEB and the Utilities to educate customers. The Utilities and some other stakeholders did not support explicit OEB approval of messaging and wording. They suggested that the Utilities have a better understanding of their customers and that they should manage their own communication strategies. Several of these stakeholders did support sharing bill insert communication and/or key themes to be included in customer education. The Utilities were also concerned that an additional approval process could delay the provision of timely information to customers.

The OEB considers appropriate customer outreach and education to be essential to consumer understanding of the Cap and Trade Program and the way in which the program will affect consumer bills. Given that the program is being implemented across the province, consistent messaging across all Utilities will minimize the potential for customer confusion.

The OEB has therefore decided that it will provide the Utilities with key messages that should be included in communications to low volume consumers, and will not require the Utilities to submit their communications to the OEB for approval. This will ensure consistency in messaging while allowing the Utilities the flexibility to develop their communications strategies in a way that they believe best responds to the needs of their customers. The key messages will be provided by the OEB in a separate letter. The OEB will expect the Utilities to provide their customer communication materials to the OEB prior to any Cap and Trade-related information being delivered to customers.

The OEB thanks all stakeholders for their comments on the Discussion Paper. Comments on the issues not addressed in this letter will inform the OEB as it proceeds to finalize the rest of the Framework for issuance this Fall. If stakeholders have questions regarding this letter, they may contact Laurie Klein at [laurie.klein@ontarioenergyboard.ca](mailto:laurie.klein@ontarioenergyboard.ca) or Rachele Levin at [rachele.levin@ontarioenergyboard.ca](mailto:rachele.levin@ontarioenergyboard.ca)

Yours truly,

*Original signed by*

Kirsten Walli  
Board Secretary

UNION GAS LIMITED

Answer to Interrogatory from  
Energy Probe Research Foundation (“Energy Probe”)

Preamble: Union and EGDI are expected to become Affiliates after completion of the sale of Sempra Stock to Enbridge Inc.

- a) Has Union considered the various regulatory Implications in regards to affiliate relations in terms of its transactions with Enbridge Gas Distribution, for example with various services such as M12 and M12X services?
- b) If so please provide a summary of the issues.

---

**Response:**

- a) and b) No, Union has not considered these implications as the merger between Enbridge Inc. and Spectra Energy has not yet been approved. Regardless of ownership structure, Union is always fully compliant with the Board’s Affiliate Relationship Code.

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 2, Page 2 and EB-2013-0365 Exhibit A, Tab 4, page 24

Preamble: The Application Tab 2 states: "The quantities shown are the Dawn to Parkway equivalent of Dawn to Kirkwall turnback at an equivalency factor of approximately 73%.

Exhibit A, Tab 4, page 24 states: "The net effect of "re-purposing" the Dawn-Kirkwall capacity is that only a portion of the Dawn-Kirkwall capacity is available when converted to move gas from Dawn-Parkway. To compensate for this, Union has calculated an average Parkway equivalency factor for the purpose of this proposal at approximately 84% based on the configuration of the Dawn-Parkway system for each year."

We would like to understand the reduction in equivalency as it relates to new facilities.

Please provide an explanation of the impact of new facilities on the equivalency factor aided by schematics of the Dawn-Parkway system demonstrating the different equivalency levels.

---

**Response:**

The equivalency factor is not static and can change for many reasons, including changes in demand, location of demand along the Dawn-Parkway system, as well as which facilities are in-service and proposed.

As an example of the equivalency factor change related to new facilities, in EB-2015-0200, Exhibit A, Tab 6, p. 17, lines 12-13, Union forecast 31,746 GJ/d of Dawn to Kirkwall turnback in Winter 2017/2018. This resulted in an equivalent volume at Parkway of 29,556 GJ/d (please see EB-2015-0200, Exhibit A, Tab 8, p. 6, lines 11-12). The ratio of the two values results in an equivalency factor of 93%. The equivalent value at Parkway forms part of the capacity of the Dawn-Parkway system which is then used to determine the need for facilities to serve forecast demand.

After the Lobo D and Bright C facilities were approved, Union received notice of an additional Dawn to Kirkwall turnback of 59,778 GJ/d for Winter 2017/2018. This turnback resulted in an equivalent volume at Parkway of 38,093 GJ/d. This is an equivalency factor of 63%.

The two values together equate to a total equivalency factor of 73% for Winter 2017/2018.

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 2, Page 3

Preamble: We would like to understand more about the nature of the contracts being turned back.

Please expand Table 1 to provide the breakdown between Dawn-Kirkwall, Dawn-Parkway and Kirkwall-Parkway for each the years.

- a) Please include the results of turnback elections from the October 31, 2016 deadline in the updated Table.

---

**Response:**

- a) Exhibit A, Tab 2, p. 3, Table 1 only includes turnback received from Dawn to Kirkwall as this is the only capacity that was agreed to be used to facilitate PDO reductions.

There were no contracts from Dawn to Kirkwall turned back for November 1, 2018.

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 2, Page 4, lines 16-18

Preamble: *"Union expects to conduct a customer election process during the second quarter of 2017 where customers will determine their level of participation in the PDO shift effective November 1, 2017."*

Please provide the cost \$/GJ for the incremental capacity on the Dawn-Parkway system from the forecasted cost of each of the 2016 D-P Build and the 2017 D-P Build.

---

**Response:**

Based on cost estimates as filed in EB-2014-0261, the 2016 Dawn Parkway project was estimated to cost \$938 per GJ/d.

Based on cost estimates as filed in EB-2015-0200, the 2017 Dawn Parkway project was estimated to cost \$1,364<sup>1</sup> per GJ/d.

---

<sup>1</sup> Note that this project cost includes replacement costs in addition to growth costs.

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 2, Page 4, lines 16-18

Preamble: *"Union expects to conduct a customer election process during the second quarter of 2017 where customers will determine their level of participation in the PDO shift effective November 1, 2017."*

Given the incentive structure for PDCI proposed, would Union consider providing a reverse PDO (customer moving from Dawn to Parkway for obligated delivery) if the PDCI is less than the cost of required new Dawn to Parkway capacity through facility build? If not, why not?

---

**Response:**

The proposal to offer a "reverse PDO" is counter to what customers have been requesting for many years, which is to shift their delivery obligations from Parkway to Dawn.

Union has not considered a "reverse PDO" as a means to offset capital expansions on the Dawn Parkway System. Union offers existing Dawn to Parkway transportation holders the opportunity to turn back capacity through a reverse open season when capital expansions are proposed.

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 3, Page 22, Figure 11

Preamble: We would like to understand the supply portfolio allocation for the Northeast.

What market forces or other factors contribute to the majority of gas for the Northeast being sourced from Chicago as opposed to other locations?

---

**Response:**

The Chicago supply allocation to the Union North East Zone represents an allocation of Vector pipeline capacity that Union holds from November 2016 to October 2017. This capacity is used to satisfy Union North East Zone supply requirements.

In November of 2016, the Union North East portfolio is planned to change substantially as TransCanada PipeLine ("TransCanada") long-haul contracts originating at Empress are replaced by short-haul contracts originating at Parkway. This shift from long-haul transportation to short-haul transportation creates an "Uncommitted/Dawn" requirement for Union North East Zone customers.

In response to the incremental needs of gas supply customers, Union secured incremental Vector capacity for the 2016/2017 gas year. Union evaluated the options available at the time it secured this incremental capacity using the Gas Supply Planning Principles.



UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 3, Page 24

For each of the last three years, please provide:

- a) The number of customers that moved from system gas to direct purchase
- b) The number above expressed as a percentage of the total system gas customers at the start of the period.
- c) The annual volume of gas associated with those customers
- d) The number above expressed as a percentage of the total system gas volume forecasted at the start of the period.
- e) Please provide the information in a) thru d) for the customers switching from direct purchase to system using direct purchase numbers and volumes for the expressed percentages.

---

**Response:**

- a) to e) Union does not report changes in the number of customers and their associated volume resulting from migration from system supply to direct purchase ("DP") and from DP to system supply discretely. However, Union does report its customers and volume by service type and rate class in its annual applications for deferral account disposition and earnings sharing. Union manages the net migration between system supply and DP.

Please see Attachment 1 for the number of migrating customers (column b), the percentage of system customers they represent (column d) and the respective volume (columns f and h).

Direct Purchase Customer Information

	Number of DP customers	Change in number of DP customers	Number of system customers start of year	Percent change in DP customers to system customers	DP consumption (10 <sup>3</sup> m <sup>3</sup> )	Change in DP consumption (10 <sup>3</sup> m <sup>3</sup> )	Actual system consumption (10 <sup>3</sup> m <sup>3</sup> )	Percent change in DP consumption to actual system consumption
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
2015	121,317	-21,660	1,276,522	-1.7%	9,391,689	-437,795	4,487,722	-9.8%
2014	142,977	-22,786	1,232,917	-1.8%	9,829,484	-294,864	4,917,599	-6.0%
2013	165,763	-29,420	1,183,770	-2.5%	10,124,348	-191,785	4,420,929	-4.3%
2012	195,183				10,316,133			

Notes:

Column (a) per Exhibit A, Tab 2, Appendix A, Schedule 10 of EB-2016-0118, EB-2015-0010, EB-2013-0109 columns (n - q) and EB-2014-0145 Actual columns (b) through (e).

Column (b) = change within column (a) between previous year and current year.

Column (c) per Exhibit A, Tab 2, Appendix A, Schedule 10 of EB-2015-0010, EB-2013-0109 column (m) and EB-2014-0145 Actual column (a).

Column (d) = column (b) / column(c).

Column (e) per Exhibit A, Tab 2, Appendix A, Schedule 6 of EB-2016-0118, EB-2015-0010, EB-2013-0109 columns (n - q) and EB-2014-0145 Actual columns (b) through (e).

Column (f) = change in column (e) between previous year and current year.

Column (g) per Exhibit A, Tab 2, Appendix A, Schedule 6 of EB-2015-0010, EB-2013-0109 column (m) and EB-2014-0145 Actual column (a).

Column (h) = column (f) / column (g).

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 3, pages 33-34

Preamble: Page 34 provides: *"Union's forecasted annual TransCanada transportation costs as of November 1, 2016, which includes FT, STS, and EMB, is currently forecasted to be approximately \$123 million. The proposed tolling methodologies, if approved as filed and with no changes to Union's portfolio as a result, would increase Union's total TransCanada transportation costs by 30% percent."*

We would like to understand better the bill impacts of these potential changes if the NEB approves the application:

Using the applied for rates and their underpinning methodologies, please provide the bill impacts for customers in each TCPL delivery area broken out by changes to distribution, transmission and storage.

---

**Response:**

Union's 2017 gas supply plan includes approximately \$16.1 million in annual STS demand costs, per Exhibit A, Rate Order, Working Papers, Schedule 23, p. 3, column (e). If Union were to update the 2017 gas supply plan for the proposed TransCanada tolling methodology, annual STS demand costs would increase by \$22.6 million for Union's North West Zone (MDA, WDA and SSMDA) and \$13.8 million for Union's North East Zone (NDA, NCDA and EDA), for a total increase of approximately \$36.4 million.

Based on the 2017 gas supply plan updated for incremental STS demand costs of \$36.4 million. Please see Table 1 below for the estimated bill impacts for Union North general service customers.

Table 1  
Union North  
General Service Customer Bill Impacts

Line No.	Particulars (\$)	Rate 01 (1)		Rate 10 (2)	
		Union North West	Union North East	Union North West	Union North East
		(a)	(b)	(c)	(d)
1	Delivery Charge	-	-	-	-
	Supply Charges				
2	Transportation to Union	-	-	-	-
3	Storage Services	146	35	4,561	1,020
4	Commodity	-	-	-	-
5	Total Bill Impact	146	35	4,561	1,020
6	Total Bill (3)	895	918	24,295	24,472
7	Total Bill Impact (%)	16%	4%	19%	4%

Notes:

- (1) Based on annual consumption of 2,200 m<sup>3</sup>.
- (2) Based on annual consumption of 93,000 m<sup>3</sup>.
- (3) Rate Order, Working Papers, Schedule 8. Union North West total bill based on the previous Western Zone and Union North East total bill based on the previous Eastern Zone.

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 3, pages 33-34

Preamble: Page 34 provides: *"Union's forecasted annual TransCanada transportation costs as of November 1, 2016, which includes FT, STS, and EMB, is currently forecasted to be approximately \$123 million. The proposed tolling methodologies, if approved as filed and with no changes to Union's portfolio as a result, would increase Union's total TransCanada transportation costs by 30% percent."*

We would like to understand better the bill impacts of these potential changes if the NEB approves the application:

Please provide a total bill for a customer in the NDA assuming Union continued to provide service to the NDA from Empress.

---

**Response:**

The potential changes associated with the proposed TransCanada PipeLine ("TransCanada") tolling methodology would not impact Union's short-haul transportation contracts to serve the Union NDA, as Union has contracted for this capacity for 15 years, with no option to turnback. Union also has Board-approval to base the Union North East Zone's gas supply commodity rate on a Dawn Reference Price consistent with the gas supply portfolio changes. Please see the response at Exhibit B.BOMA.12.

For the purpose of this response only, Union assumed a conversion of short-haul transportation contracts from Dawn with long-haul transportation contracts from Empress to serve the Union NDA in the 2017 gas supply plan. Specifically, Union converted 43,000 GJ/d and 67,000 GJ/d of short-haul transportation contracts to long-haul transportation, including the related compressor fuel adjustments. Based on long-haul transportation contracts from Empress, Union assumed gas supply commodity charges based on an Alberta Border Reference Price. Union also assumed no other potential changes related to this conversion (i.e. changes to Dawn to Parkway costs). Union estimates the transportation cost increase is approximately \$40.0 million for the Union North East Zone, which is partly offset by a decrease in the gas supply commodity charges for gas purchases at Empress versus Dawn.

To estimate the bill impacts for a customer in the Union NDA, Union assumed an incremental 3.0 cents/m<sup>3</sup> increase to the gas supply commodity rate to represent the gas supply cost differential between Dawn and Empress, consistent with the Dawn Reference Price and North T-Service proceeding (EB-2015-0181), Exhibit A, Tab 2, Table 2. Based on these assumptions, the estimated general service bill impacts for Union NDA customers are provided at Attachment 1.

UNION GAS LIMITED  
General Service Customer Bill Impacts based on Union NDA Assumptions (per Exhibit B.FRPO.8)

Line No.	Particulars	Union North East Zone (Previously Northern Zone (Union NDA)) Rate 01 - Residential (Annual Consumption of 2,200 m³)			Union North East Zone (Previously Northern Zone (Union NDA)) Rate 10 - Commercial / Industrial (Annual Consumption of 93,000 m³)		
		Union North East Zone Estimated 01-Jan-17	Union North East Zone Updated 01-Jan-17	Impact	Union North East Zone Estimated 01-Jan-17	Union North East Zone Updated 01-Jan-17	Impact
		Total Bill (\$) (1) (2)	Total Bill (\$) (1) (3)	(\$)	Total Bill (\$) (1) (2)	Total Bill (\$) (1) (3)	(\$)
		(a)	(b)	(c) = (b) - (a)	(d)	(e)	(f) = (e) - (d)
	<u>Delivery Charges</u>						
1	Monthly Charge	252.00	252.00	-	840.00	840.00	-
	Delivery Commodity Charge						
2	Customer-Related GHG Obligation	-	-	-	-	-	-
3	Other Delivery Commodity	200.33	200.33	-	5,974.97	5,974.97	-
4	Total Delivery Charge	452.33	452.33	-	6,814.97	6,814.97	-
	<u>Supply Charges</u>						
5	Transportation to Union	65.24	196.40	131.16	2,539.16	6,939.56	4,400.40
6	Storage Services	145.67	109.02	(36.65)	4,348.88	3,263.47	(1,085.41)
7	Subtotal	210.91	305.42	94.51	6,888.04	10,203.03	3,314.99
8	Commodity	318.54	252.54	(66.00)	13,466.11	10,676.11	(2,790.00)
9	Total Gas Supply Charge	529.45	557.96	28.51	20,354.15	20,879.14	524.99
	<u>Total Bill</u>						
10	Including Customer-Related GHG Obligation	981.78	1,010.29	28.51	27,169.12	27,694.11	524.99
11	Excluding Customer-Related GHG Obligation	981.78	1,010.29	28.51	27,169.12	27,694.11	524.99
	<u>Impacts</u>						
	<u>Sales Service</u>						
12	Including Customer-Related GHG Obligation (line 10)			28.51			524.99
13	Excluding Customer-Related GHG Obligation (line 11)			28.51			524.99
	<u>Direct Purchase</u>						
14	Including Customer-Related GHG Obligation (line 4+ line 7)			94.51			3,314.99
15	Excluding Customer-Related GHG Obligation (line 4+ line 7 - line 2)			94.51			3,314.99

Notes:

- (1) Excludes temporary charges/(credits) and prospective recovery.  
(2) Rate Order, Working Papers, Schedule 8, p. 3 & p. 6, column (e). Commodity increased by 3.0 cents/m³ to represent a Dawn Reference Price.  
(3) Total bill based on assumptions provided at Exhibit B.FRPO.8.

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 3, pages 33-34

Preamble: Page 34 provides: *"Union's forecasted annual TransCanada transportation costs as of November 1, 2016, which includes FT, STS, and EMB, is currently forecasted to be approximately \$123 million. The proposed tolling methodologies, if approved as filed and with no changes to Union's portfolio as a result, would increase Union's total TransCanada transportation costs by 30% percent."*

We would like to understand better the bill impacts of these potential changes if the NEB approves the application:

Does Union contemplate consideration of changes in TCPL FT and STS contracting if the application is approved to adjust to the higher costs to use STS?

- a) If not, why not?
- b) If so, please outline the process for assessing the sourcing of gas (i.e., Empress versus Dawn) for the NDA and NCDA.
- c) Please provide a numeric example of the assessment for customers' bills in the NDA.

---

**Response:**

- a) to c) Please see the response at Exhibit B.BOMA.12.



UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 3, Appendix B

Preamble: We would like to understand better Union's approach, methodology and cost implications of the Supply Demand Balance.

Please explain why the use of TCPL FT falls considerably in the month of March to service Union North customers when it is one of the higher consuming months.

- a) Please provide a summary table of SENDOUT outputs that demonstrate that this approach is the lowest cost solution for Northern customers.
- b) Please explain why storage withdrawals are maximized in that month along with short-haul transport to the respective North delivery areas.
  - i. Please ensure the explanation includes the impact on storage levels required to maintain deliverability and the incremental amount of gas to maintain deliverability.
  - ii. Please provide a financial assessment of the costs of carrying that incremental gas in storage.

---

**Response:**

From a gas supply planning perspective, Union plans for storage to be drawn down to the 6 PJ contingency level needed to maintain system integrity by the end of March. As a result, upstream supplies are reduced and withdrawals from storage are utilized to serve demands.

When planning, Union assumes weather normalized demands, and as a result, Union also assumes that all gas purchased will be used within the gas year. SENDOUT will determine when best to utilize gas from storage by balancing demand, transportation capability and commodity pricing to achieve the lowest cost solution.

- a) SENDOUT is a linear programming tool that provides the lowest cost solution. Exhibit A, Tab 3, Appendix B is a summary table of the lowest cost solution from SENDOUT.
- b)
  - i. Please see the response above.

- ii. The carrying cost of 6 PJ of system integrity gas as approved by the Board is calculated in the plan at the April 2016 QRAM Ontario Landed Reference Price of \$4.379/GJ with a composite return of 5.18% from EB-2016-0040, Tab 2, Schedule 4, for an inventory carrying cost of \$1.361 million for gas in storage for contingency, as calculated below.

<u>April 2016 QRAM</u>		
Ontario Landed Reference Price	4.379	\$/GJ
Composite Return	5.18	%
Contingency Storage	6.000	PJ
Inventory Carrying Cost	<b>1.361</b>	(\$ million)

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 4, page 1-20

Preamble: We would like to understand better the attributes and costs of the Customer Managed Service.

Please provide a high level summary of the main similarities and differences between Union's proposed Customer Managed Service and the former U7 service offering.

---

**Response:**

<b>Service Feature</b>	<b>Former U7 Service*</b>	<b>Proposed CMS</b>
Service Design Driver	Customer desires more control over individual underpinning assets.	Customer desires to actively manage gas supply on a daily basis consistent with end-use consumption.
Primary eligibility criteria	Annual firm and interruptible distribution service minimum of 5,000,000 m <sup>3</sup>	Daily Firm CD of at least 140,870 m <sup>3</sup>
Cost based Firm Storage Space	Aggregate Excess	Firm CD * 9
Cost based Firm Injection/Withdrawal	1.2% of storage space with ratchets tied to storage inventory level, nominated	1.2% of storage space, nominated
Balancing	+/-4% Daily Tolerance allowed	Daily Variance Account (Firm CD)
Gas Supply	Non-obligated, subject to Parkway Call	Non-obligated at Dawn, obligated at Parkway
Consumption	Nominated	Allocated
Rate Structure	Reflects service design	Reflects service design

\*The Unbundled services were approved in RP-1999-0017 Decision with Reasons, July 21, 2001 and implemented in November 2001<sup>1</sup>. No customer elected the U7 service. The U7 service was discontinued following EB-2011-0210, Decision and Order dated January 17, 2013.

---

<sup>1</sup> RP-2000-0078, Decision with Reasons dated July 31, 2002, Section 4.1 paragraph 112.

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 4, page 1-20

Preamble: We would like to understand better the attributes and costs of the Customer Managed Service.

How does Union propose to replace the gas above ground at Dawn on peak days that was formerly provided by obligated deliveries from these customers on peak days?

- a) What is the forecasted cost of that replacement?
- b) Who bears the replacement cost?

---

**Response:**

- a) and b) There is no need for Union to "replace" the gas above ground at Dawn on a planned peak day. Currently, on a planned Peak Day, obligated DCQs plus Planned Storage Withdrawal on design day meet customer requirements. For the proposed CMS option, the gas supply delivered to Union plus storage withdrawals together meet design day requirements. Small differences may flow to/from the Daily Variance Account (subject to interruptions).

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 4, page 1-20

Preamble: We would like to understand better the attributes and costs of the Customer Managed Service.

What is the cost for systems changes required to manage, monitor, report and bill the CMS services?

a) Who bears these incremental costs?

---

**Response:**

The cost for systems changes required for managing, monitoring, reporting and billing the CMS option will be minimal and managed within Union's approved IRM framework.

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 4, page 18, lines 14-16

Preamble: *"Union is proposing to set the rates for the DVA based on existing cost-based storage rates, in accordance with the Rate T2 rate schedule. The firm storage space is set at Union's existing annual firm storage space demand charge of \$0.011/GJ".*

We would like to understand the derivation of the storage space demand charge.

Please show a comparable derivation of the storage space demand charge similar to Table 2 provided for the Injection and Withdrawal charges that demonstrates the composition of the rate.

---

**Response:**

Please see Table 1 below. The storage space demand charge of \$0.011/GJ is common for Rate T1, Rate T2 and Rate T3 and is set based on the Union South storage space revenue requirement and demands, per EB-2011-0210. Adjustments to the revenue requirement during Union's 2014-2018 IRM term have not resulted in a change to the rate.

Table 1  
Derivation of the Rate T2 Storage Space Monthly Demand Charge

<u>Line No.</u>	<u>Particulars</u>	
1	Storage Space Revenue Requirement (\$000's) (1)	\$10,189
2	Storage Space Demand (GJ) (1)	<u>75,177,124</u>
3	Storage Space Monthly Demand Charge (\$/GJ) (2)	<u><u>\$0.011</u></u>

Notes:

- (1) EB-2011-0210, Rate Order, Working Papers, Schedule 19.  
(2) (Line 1 / line 2 x 1000) / 12.

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 4, Appendix C

Preamble: We would like to understand the charges associated with this new service.

For each the scenarios provided, please show the charges associated with this service with the utilization in the scenario.

---

**Response:**

The scenarios in Exhibit A, Tab 4, Appendix C were provided for the purposes of illustrating the Daily Variance Account injection/withdrawal calculations on a single day. The associated CMS Storage and Daily Variance Account utilization and overrun charges are shown below using the proposed Rate T2 Rate Schedule effective January 1, 2017.

***Example 1: Allocated Injection Calculation***

	<b>Commodity Charge (Rate/GJ)</b>	<b>Quantity (GJ)</b>	<b>Total (\$)</b>
<b>Storage Injections<sup>1</sup></b>	\$0.008	100	\$0.80
<b>DVA Injections<sup>1</sup></b>	\$0.059	500	\$29.50
<b>Total</b>			<b>\$30.30</b>

***Example 2: Allocated Withdrawal Calculation***

	<b>Commodity Charge (Rate/GJ)</b>	<b>Quantity (GJ)</b>	<b>Total (\$)</b>
<b>Storage Withdrawals<sup>1</sup></b>	\$0.008	108	\$0.86
<b>DVA Withdrawals<sup>1</sup></b>	\$0.059	292	\$17.23
<b>Total</b>			<b>\$18.09</b>

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<sup>1</sup> For customers providing their own compressor fuel.

UNION GAS LIMITED

Answer to Interrogatory from  
Federation of Rental-housing Providers of Ontario ("FRPO")

Reference: Exhibit A, Tab 4, Appendix C

Preamble: We would like to understand the charges associated with this new service.

Are the expected incremental revenues to be generated from this service sufficient to cover the costs identified above and any additional costs Union has identified?

a) Please specify the nature of the additional costs and quantify the annual impact.

---

**Response:**

Please see the response at Exhibit B.FRPO.13.



UNION GAS LIMITED

Answer to Interrogatory from  
City of Kitchener ("Kitchener")

Union has indicated the largest drivers for the very substantial increase (32.1%) in the T3 rate (*Working Papers, Sched. 3, P. 1*) to be capital pass-throughs and parkway delivery obligation costs. Please provide a detailed explanation of the cost allocation methodology performed for each of these two drivers. Specifically describe how the various capital project costs and parkway delivery obligation\credit incentive costs are allocated to Kitchener.

---

**Response:**

Capital Pass-through Project Costs

The revenue requirement of capital pass-through projects included in Union's 2017 rates were previously approved by the Board in each of their respective proceedings. The detailed cost allocation methodology explanations can be found in each of the project specific proceedings. References for each proceeding can be found in Table 1 below.

Table 1  
Capital Pass-through Projects Proceedings

<u>Line No.</u>	<u>Particulars</u>	<u>OEB Case Number</u>	<u>Cost Allocation Methodology Reference</u>	<u>Date of Board Decision</u>
		(a)	(b)	(c)
1	Parkway West	EB-2012-0433	Section 12, pp. 102-103	30-Jan-14
2	Brantford-Kirkwall/Parkway D	EB-2013-0074	Section 10, pp. 5-6	30-Jan-14
3	Burlington-Oakville	EB-2014-0182	Exhibit A, Tab 3, p. 4	17-Dec-15
4	2016 Dawn to Parkway	EB-2014-0261	Exhibit A, Tab 3, pp. 4-5	30-Apr-15
5	2017 Dawn to Parkway	EB-2015-0200	Exhibit A, Tab 3, p. 6	22-Dec-15

As a wholesale customer taking service under Rate T3, the City of Kitchener is allocated a lower proportion of distribution costs than an end-use distribution customer. The lower allocation of distribution costs results in a lower benefit associated with the reallocation of indirect costs and income tax allocation. As a result, the Project costs allocated to Rate T3 are only partly offset by the reallocation of indirect costs and taxes, based on Board-approved methodology.

Parkway Delivery Obligation Costs

The Parkway Delivery Obligation (“PDO”) and Parkway Delivery Commitment Incentive (“PDCI”) were approved by the Board in Union’s 2014 Rates proceeding (EB-2013-0365).

The PDO costs include the Rate M12 Dawn to Parkway demand costs and incremental compressor fuel costs associated with the PDO reduction and Rate M12 turnback. The Dawn to Parkway demand costs are allocated to rate classes in proportion to the 2013 Board-approved design day demands on the Dawn-Parkway transmission system. The compressor fuel costs are allocated to Union South in-franchise rate classes in proportion to the 2013 Board-approved delivery volumes for customers located east of Dawn.

The PDCI costs are allocated to rate classes in the same manner as the PDO costs.

UNION GAS LIMITED

Answer to Interrogatory from  
City of Kitchener ("Kitchener")

Please provide a detailed explanation of the methodology used to determine a rate increase of 5.0873 cents per cubic meter (*Rate Order, Appendix A, P.12*) to the T3 transportation firm demand charge.

---

**Response:**

The increase in the Rate T3 transportation firm demand charge is primarily driven by the increase in the capital pass-through projects and PDO costs included in 2017 Rates as summarized in Table 1 below. A detailed calculation of the change to the Rate T3 transportation firm demand charge is provided at Rate Order, Working Papers, Schedule 4, p.17-18, line 9.

Please see Exhibit B.Kitchener.1 for the description of the methodology used to allocate the capital pass-through projects and PDO costs.

Table 1  
Summary of Rate T3 Transportation Demand Rate Change

Line No.	Particulars	Revenue Requirement (\$000's) (a)	Demand (10 <sup>3</sup> m <sup>3</sup> /d/mo) (b)	Unit Rate (cents/m <sup>3</sup> /d/mo) (c) = (a/b)
1	Current Approved Revenue and Unit Rate (1)	3,281	28,200	11.6340
	2017 Changes in Revenue			
2	Capital Pass-Throughs (2)	610	28,200	2.1619
3	Parkway Delivery Obligation (3)	807	28,200	2.8622
4	Price Cap Index (4)	18	28,200	0.0632
5	Proposed Revenue and Unit Rate (5)	4,715		16.7213
6	Unit Rate Change (line 5 - line 1)			5.0873

Notes:

- (1) Rate Order, Working Papers, Schedule 4, line 9, columns (a), (b) & (c).
- (2) Rate Order, Working Papers, Schedule 4, line 9, column (e) + column (m).
- (3) Rate Order, Working Papers, Schedule 4, line 9, column (f) + column (n).
- (4) Rate Order, Working Papers, Schedule 4, line 9, column (i).
- (5) Rate Order, Working Papers, Schedule 4, line 9, columns (r) & (u).

UNION GAS LIMITED

Answer to Interrogatory from  
City of Kitchener ("Kitchener")

Please provide a detailed explanation of the rationale between Parkway Delivery Obligation (PDO) costs and Parkway Delivery Credit Incentive (PDCI) costs. Kitchener is to be receiving a PDCI credit on our PDO for 2017 and this has not been reflected.

---

**Response:**

The PDO costs reflect the annual Rate M12 Dawn to Parkway demand and fuel costs associated with the Dawn to Parkway capacity used to facilitate the reduction to obligated DCQ deliveries at Parkway (PDO). The recovery of the PDO costs through rates recognizes the costs associated with the Dawn-Parkway capacity used to facilitate the PDO reduction.

The PDCI costs reflect the PDCI credit rate multiplied by the remaining PDO volumes. The PDCI credit is paid monthly to direct purchase customers based on their PDO, effective November 1, 2016. The recovery of the PDCI costs through rates recognizes the incremental cost to Union of providing customers the PDCI. The PDCI credit payment has not been included in the application because it is only applicable to customers with a PDO and not necessarily all customers within a particular rate class.

UNION GAS LIMITED

Answer to Interrogatory from  
City of Kitchener ("Kitchener")

Specifically related to the 2017 Parkway Delivery Obligation (PDO) costs, to the best of our knowledge, Union does not use Parkway equipment including compressors to supply Kitchener and these costs should not be allocated as such. Kindly confirm that these costs are not being attributed to Kitchener.

---

**Response:**

Not confirmed. Consistent with EB-2013-0365, Updated Settlement Agreement, Appendix B, the Parkway Delivery Obligation ("PDO") demand costs are calculated using the 2017 Rate M12 Dawn to Parkway demand rate, which includes an allocation of Union's Parkway compressor station. These costs are allocated to Union South in-franchise rate classes in proportion to the 2013 Board-approved design day demands on the Dawn-Parkway transmission system.

Please see the response at Exhibit B.Kitchener.3 for an explanation of the rationale of the PDO costs.

UNION GAS LIMITED

Answer to Interrogatory from  
London Property Management Association ("LPMA")

Reference: Exhibit A, Tab 1

Please provide a version of the "Detail Change in Revenue" section of Table 1 that provides the same breakdown of the \$46,074 increase as shown in lines 4 through 9, but does so at the rate class level.

---

**Response:**

Please see Attachment 1 for the requested breakdown.

UNION GAS LIMITED  
Detail Change in Revenue by Rate Class  
Effective January 1, 2017

Line No.	Particulars (\$000's)	2017 Price Cap Index (0.66%) (a)	2017 Union North Redesign (b)	2017 DSM Budget Change (c)	2017 Capital Pass-throughs (d)	2017 Parkway Delivery Obligation (e)	2017 Facility-Related GHG Obligation (f)	Total Change In Revenue (g) = (sum a:f)
	<u>In-franchise</u>							
1	Rate 01	1,143	(15,922)	524	(1,791)	(0)	-	(16,047)
2	Rate 10	149	(6,521)	276	(46)	(0)	-	(6,142)
3	Rate 20	91	(2,312)	(160)	(244)	(0)	-	(2,626)
4	Rate 25	30	(1,119)	-	(105)	-	-	(1,194)
5	Rate 100	93	111	(214)	(278)	(0)	-	(289)
6	Rate M1	2,540	-	1,571	(873)	8,280	-	11,517
7	Rate M2	310	-	975	1,272	2,807	-	5,365
8	Rate M4	71	-	(262)	449	901	-	1,159
9	Rate M5A	70	-	(349)	(239)	174	-	(344)
10	Rate M7	21	-	(91)	196	402	-	528
11	Rate M9	5	-	-	81	158	-	244
12	Rate M10	0	-	-	2	4	-	6
13	Rate T1	59	-	(132)	330	562	-	820
14	Rate T2	267	-	(389)	2,913	3,246	-	6,036
15	Rate T3	30	-	-	581	1,020	-	1,631
16	Total In-Franchise	<u>4,878</u>	<u>(25,764)</u>	<u>1,749</u>	<u>2,247</u>	<u>17,553</u>	<u>-</u>	<u>663</u>
	<u>Ex-franchise</u>							
17	Rate M12	1,069	-	-	42,917	(21)	-	43,965
18	Rate M13	3	-	-	(4)	-	-	(1)
19	Rate M16	5	-	-	(4)	(0)	-	1
20	Rate C1	51	-	-	1,426	(7)	-	1,471
21	Total Ex-Franchise	<u>1,128</u>	<u>-</u>	<u>-</u>	<u>44,336</u>	<u>(28)</u>	<u>-</u>	<u>45,436</u>
22	Gas Supply Admin Charge	-	-	-	(26)	-	-	(26)
23	Total (line 16 + line 21 + line 22)	<u>6,006</u>	<u>(25,764)</u>	<u>1,749</u>	<u>46,557</u>	<u>17,525</u>	<u>-</u>	<u>46,074</u>



UNION GAS LIMITED

Answer to Interrogatory from  
London Property Management Association ("LPMA")

Reference: Exhibit A, Tab 1, page 8 & Working Papers, Schedule 12

- a) Please provide details on the reasons for the decrease in NAC for each of the rates shown, including, for example, the amount or percent due to weather, the amount or percent due to the leap year, and other drivers.
  - b) Please provide the weather data, consumption by rate class and underlying working papers in support of the NAC values shown in Schedule 12.
- 

**Response:**

- a) and b) Please see the response at Exhibit B.Staff.9.

UNION GAS LIMITED

Answer to Interrogatory from  
London Property Management Association ("LPMA")

Reference: Exhibit A, Tab 1, pages 8-10

Does the proposal related to the Union North Cost Allocation and Rate Design Implementation have any impact on Union South Rates? If yes, please explain fully what these impacts are.

---

**Response:**

No. The Union North storage and transportation rate changes implemented as part of the 2017 rates application do not have any impact on Union South rates.

The changes resulting from the Dawn Reference Price (EB-2015-0181) Settlement Proposal will impact the Union South commodity and transportation rates. These will be implemented with the QRAM coincident with or immediately following the TransCanada King's North Project in-service date.

UNION GAS LIMITED

Answer to Interrogatory from  
London Property Management Association ("LPMA")

Reference: Exhibit A, Tab 1, pages 10-11 & Working Papers Schedule 20

The evidence indicates that the cost of the PDCI will be \$16.6 million for the January through December, 2017 period.

- a) Please provide the historical PDCI costs for 2014 through 2016 comparable to the \$16.6 million.
- b) Please provide the PDCI credit that was included in 2016 rates by rate class and the PDCI credit that will be included in 2017 rates, again by rate class.
- c) What is the impact of customers moving from direct purchase to system sales on the PDO and the PDCI? For example, what happens to delivery rates for a particular rate class if a significant amount of gas deliveries switch from direct purchase to system gas relative to that forecast by Union? Please explain fully.
- d) What is the date of the most recent information used by Union for the PDCI and PDO that reflects customers moving to and from system supply from direct purchase? If this date is not November 1, 2016, please explain why this date was not used.

---

**Response:**

- a) The effective date of the PDCI credit payment to customers for continued obligated DCQ deliveries at Parkway is November 1, 2016. Prior to the effective date, Union incurred no costs associated with the PDCI.

Union estimates the PDCI cost in 2016 to be approximately \$2.9 million for the two-month period from November 1, 2016 to December 31, 2016. Please see the response at Exhibit B.VECC.2.

Per the PDO Settlement Agreement (EB-2013-0365), these PDCI costs will be recorded in the Parkway Obligation Rate Variance deferral account, as this account is used to record rate variances associated with the timing differences between the effective date of the PDO and PDCI changes and the inclusion of the cost impacts in approved rates (January 1 of the following year). Accordingly, the PDCI costs for the two-month period (between November 1, 2016 and December 31, 2016) will be included as part of Union's 2016 deferral disposition application.

- b) The PDCI credit included in 2016 Rates is \$(0.134)/GJ and 2017 Rates is \$(0.149)/GJ. The PDCI credit is set at the Rate M12 Dawn to Parkway toll at 100% load factor including the Rate M12 fuel rate at October QRAM for each year, respectively. The PDCI credit is a common rate applied to all PDO volumes, regardless of rate class.

Union will be proposing an update to the 2017 PDCI credit as part of the Cap-and-Trade Compliance Plan application (EB-2016-0296) to include the proposed Rate M12 commodity rate.

- c) The calculation of the PDO and PDCI costs included in rates is based on a forecast of PDO volumes at November 1 of the previous year. The variances associated with timing differences between the effective date of PDO and PDCI changes and the inclusion of the cost in rates (January 1 of the following year) is included in the Parkway Obligation Rate Variance deferral account.

To the extent that Union's PDO forecast includes the customer changes from direct purchase to system sales, the amounts will be recovered through Union's annual rates and deferral disposition proceedings.

Should there be variances between the actual and forecast PDO volumes, caused by customers switching between direct purchase and system gas or new customers with Parkway obligated deliveries, these variances would form part of Union's utility earnings subject to sharing under the Incentive Regulation Mechanism ("IRM") framework.

- d) The information used by Union reflects contract renewals/amendments as of August 1, 2016. This was the most recent information available at the time Union's evidence was prepared for its 2017 Rates filing. This timing is consistent with the information used in Union's evidence for its 2015 and 2016 Rates filings.

0UNION GAS LIMITED

Answer to Interrogatory from  
London Property Management Association ("LPMA")

Reference: Exhibit A, Tab 4

- a) What is the expected impact on Union revenues of the CMS proposal for rate T2 in the absence of the Monthly Billing Adjustment?
- b) Does Union plan on offering a similar CMS to other rate classes? If yes, please indicate which rates. If no, please explain why not.

---

**Response:**

- a) Please see the response at Exhibit B.Staff.12 c). Please also see the responses at Exhibit B.LPMA.6 a) and b) for examples of possible impacts.
- b) The CMS option was designed for Rate T2 customers in direct response to Rate T2 customer requests for a "non-obligated" service. No other customers have requested such an option so there are no plans to offer a similar service to other rate classes at this time.

UNION GAS LIMITED

Answer to Interrogatory from  
London Property Management Association ("LPMA")

Reference: Exhibit A, Tab 4, Table 1

- a) Please confirm that under the 3 scenarios shown in Table 1 (other than the existing T2 service), Union will receive the same amount of revenues as under the existing T2 service with the Monthly Billing Adjustment in place. If this cannot be confirmed, please indicate the variance in revenues for each of the 3 scenarios shown.
- b) Please indicate the variance in T2 revenues from the existing T2 service for each of the 3 scenarios assuming that the Monthly Billing Adjustment is not in place.
- c) Does Union propose to continue to use the Monthly Billing Adjustment beyond the current IRM term? Please explain fully.

---

**Response:**

- a) and b) Not confirmed. The revenue for each of the three scenarios is not equal to the revenue under the existing Rate T2 service. The revenue variances between the scenarios is caused by changes to the firm storage space requirements. A description of the treatment of storage space revenue during the IRM term is provided at Exhibit B.Staff.12 d) and e). The Monthly Billing Adjustment maintains the financial neutrality associated with demand charges for injection/withdrawal rights.

The purpose of the scenarios in Exhibit A, Tab 4, Table 1 is to provide insight into the CMS service design approach and is not a forecast of CMS activity or revenue projections. The service design is based on the aggregate group of Rate T2 customers. Once CMS is implemented, each customer will decide whether to elect the CMS option.

Please see Attachment 1 for the estimated revenue calculation related to the CMS scenarios.

- c) The Minimum Billing Adjustment is applicable to customers that elect CMS during Union's IRM term. At rebasing, Union will set rates to recover costs based on an updated forecast, including CMS. The Monthly Billing Adjustment will not be required beyond the IRM term.

UNION GAS LIMITED  
Estimated Revenue Calculation for CMS Scenarios

Line No.	Particulars	Scenarios (Exhibit A, Tab 4, Table 1)			
		Existing T2 Service	All T2 Customers Switch to CMS	Customers Above Average Firm CD Switch to CMS	All Customers Elect T2 Service that Maximize Storage Space
		(a)	(b)	(c)	(d)
	<u>Firm Storage Space</u>				
1	Storage Space (GJ) (1)	9,018,600	5,638,377	7,014,786	9,660,580
2	Change to Excess Utility Storage Space (GJ) (2)	0	3,380,223	2,003,814	(641,980)
3	Total	9,018,600	9,018,600	9,018,600	9,018,600
	<u>Planned Storage Withdrawal on Peak Day</u>				
4	Storage Withdrawal (GJ/day) (3)	89,487	60,894	87,843	82,860
5	Storage Withdrawal Variance (GJ/day) (4)	0	28,593	1,644	6,627
6	Total	89,487	89,487	89,487	89,487
	<u>Revenue (5),(6)</u>				
7	Storage Space Demand (\$) (line 1 * \$0.011 * 12)	1,190,455	744,266	925,952	1,275,197
8	Firm Injection/Withdrawal Right (\$) (line 4 * \$1.561 * 12)	1,676,270	1,140,666	1,645,475	1,552,134
9	Total Rate T2 Revenue Excluding Monthly Billing Adjustment	2,866,726	1,884,932	2,571,427	2,827,330
10	Monthly Billing Adjustment (\$) (line 5 * \$1.561 * 12)	0	535,604	30,795	124,137
11	Total Rate T2 Revenue Including Monthly Billing Adjustment (line 9 + line 10)	2,866,726	2,420,536	2,602,222	2,951,467
12	Estimated Short-Term Storage Revenue (line 2 * \$0.70 * 10%) (7)	0	236,616	140,267	(44,939)
13	Total Revenue Including Short-Term Storage Revenue (line 11 + line 12)	2,866,726	2,657,152	2,742,489	2,906,528

Notes:

- (1) Firm Storage Space and Daily Variance Account Storage Space per Exhibit A, Tab 4, Table 1. Assumes customers electing CMS contract for the maximum quantities available.
- (2) Calculated as the variance between Firm Storage Space for each scenario and the existing Rate T2 service's Firm Storage Space, per line 1.
- (3) Planned Storage Withdrawal on Peak Day per Exhibit A, Tab 4, Table 1.
- (4) Calculated as the variance between planned storage withdrawal on peak day for each scenario and the existing Rate T2 service's planned storage withdrawal on peak day, per line 4.
- (5) Rate T2 revenue calculated based on proposed 2017 Rate T2 storage demand changes for firm storage space and injection/withdrawal rights.
- (6) The revenue associated with the Daily Variance Account injections/ withdrawals has not been included.
- (7) Storage-term storage revenue calculated based on the annual average value of Rate C1 short-term firm peak storage of \$0.070/GJ (\$7.883 million/11.3 PJ) based on the 2013 Board-approved forecast.

UNION GAS LIMITED

Answer to Interrogatory from  
London Property Management Association ("LPMA")

Reference: Exhibit A, Tab 4, Table 1

- a) The amount of firm storage space used differs in each of the 3 scenarios shown in Table 1 from the status quo, with two of the scenarios showing a reduction in the amount first storage space and one showing an increase. For each of the scenarios (less and more storage space), please explain how the change in the firm storage space would impact other rate classes and how it would impact the amount of cost-based storage space available to be marketed.
- b) Please explain the treatment of the excess utility storage that would be generated if some T2 customers use the CMS service, as noted on page 11.

---

**Response:**

- a) and b) Please see the response at Exhibit B.Staff.12 e).



UNION GAS LIMITED

Answer to Interrogatory from  
London Property Management Association ("LPMA")

Reference: Exhibit A, Tab 4, Table 1

All 3 scenarios shown in Table 1 show a reduction in the amount of planned storage withdrawal on peak day as compared to the existing T2 service.

- a) Please explain what Union would or could do with the apparent increase in storage withdrawal on peak day because of the introduction of the T2 CMS service.
- b) Would Union be able to generate additional revenues because of the potential reduction in storage withdrawals on peak day allocated to the T2 customers that choose the CMS service?
- c) Would Union be able to generation additional revenues on non peak days as a result of the reduction in storage withdrawals available to T2 customers that select the CMS service? Please explain fully.
- d) Would any additional revenues, whether from in-franchise or ex-franchise customers on either an interruptible or firm basis that result from T2 customers moving to the CMS service during the remainder of the IRM term accrue solely to Union or would they accrue all or in part to Union ratepayers? Please explain fully.

---

**Response:**

- a) to d) Union does not anticipate an "increase in storage withdrawal on peak day". The three scenarios outlined in Table 1 were identified to examine potential boundaries in order to ensure that the service design is appropriate. Union is not suggesting that any of the three scenarios outlined are reasonable expectations for customers switching to the CMS option.

To determine if there is an increase in excess storage withdrawals on a peak day, an examination of both Firm Storage Space and Planned Storage Withdrawal on peak day must be made. If a customer elects the CMS option and it results in a decrease of Firm Storage Space and/or withdrawal rights, Union will sell Excess Utility Storage Space and withdrawal rights as Short-Term Storage. Any revenues earned through the sale of Excess Utility Storage Space are shared 90% with ratepayers.

UNION GAS LIMITED

Answer to Interrogatory from  
London Property Management Association ("LPMA")

Reference: Exhibit A, Tab 4, page 14

- a) Please explain the treatment of any storage overrun revenues associated with the Daily Variance Account.
  - b) Are these revenues over and above the revenues from a T2 customer, including the Monthly Billing Adjustment?
  - c) Has Union included in any forecast of overrun revenues in its calculation of revenues from T2 customers using the CMS service with or without the Monthly Billing Adjustment? If yes, please provide the forecasted figure.
- 

**Response:**

- a) The treatment of storage overrun revenues associated with the Daily Variance Account will form part of Union's utility earnings, which are subject to earnings sharing during Union's 2014-2018 IRM term, consistent with other Rate T2 storage overrun revenue.
- b) Yes. Should there be additional storage overrun revenue due to the CMS option, the overrun would be incremental to the existing Rate T2 revenue.
- c) No. There are no updates to Union's forecast during its 2014-2018 IRM term. Overrun revenue will not be included in the calculation of the Monthly Billing Adjustment. The inclusion of overrun revenue in the Monthly Billing Adjustment would result in no incentive for the CMS customer to stay within their contract limits. Customers that elect the CMS option are responsible for managing their storage activity within their contract parameters.

UNION GAS LIMITED

Answer to Interrogatory from  
London Property Management Association ("LPMA")

Reference: Exhibit A, Tab 4, Appendix D

Does the Monthly Billing Adjustment also reflect changes in storage space or does it only reflect changes in the annual firm storage injection/withdrawal rights? If the latter, please explain why the potential change in storage space is not also reflected in the Monthly Billing Adjustment.

---

**Response:**

The Monthly Billing Adjustment reflects changes in firm storage injection/withdrawal rights. Changes to customer contracted storage space will impact Union's revenue earned on the sale of Excess Utility Storage Space. Please see the response at Exhibit B.Staff.12 d) and e).

UNION GAS LIMITED

Answer to Interrogatory from  
TransCanada Pipelines Limited (“TransCanada”)

Reference: EB-2016-0245, Exhibit A, Tab 3, Page 23 of 36  
EB-2016-0118, Application, Exhibit A, Tab 4, Appendix A,  
Schedule 2

Preamble: In Reference 1, Union states that it has extended an 80,000 Dth/d Vector contract to October 31, 2022, and contracted for an additional 132,060 Dth/d of incremental Vector capacity with varying expiry dates.

In Reference 2, Union provided landed cost analyses as part of its 2015 Disposition of Deferral Account Balances and 2015 Utility Earnings proceeding.

TransCanada notes Union has committed to new upstream transportation contracts and requests further information on these arrangements.

- a) Utilizing the same format as presented in Reference 2, please provide the landed cost analyses for the periods of 2016-2017 and 2016-2022 used in support of the contracting decisions noted in Reference 1.

---

**Response:**

- a) Union has not completed a landed cost analysis for the periods stated. Union prepares landed costs analyses to evaluate transportation contracting decisions. Transportation contracting decisions can occur at several different points in time throughout the year, and includes varying timeframes depending on the need and opportunity. Union files all applicable landed cost analyses related to upstream transportation contracting decisions yearly as part of the disposition of deferral account balances filing.

UNION GAS LIMITED

Answer to Interrogatory from  
TransCanada Pipelines Limited (“TransCanada”)

Reference: EB-2016-0245, Exhibit A, Tab 3, Page 31 of 36

Preamble: In Reference 1, Union discusses its long-term contract with the NEXUS Gas Transmission (“NEXUS”) Pipeline commencing November 1, 2017.

- a) Has the Union-NEXUS Precedent Agreement been amended since December 2, 2015? If so, please provide a summary of the changes as well as a blackline version of the updated Precedent Agreement.
  - b) Please list all regulatory authorizations required for NEXUS and provide an update on the status of each.
- 

**Response:**

- a) Union entered into a “Restated Precedent Agreement” dated May 28, 2015 as filed in the NEXUS Contract Pre-approval proceeding at EB-2015-0166, Exhibit A, Schedule 1. There have been no amendments since that time.
- b) Please see below for a list of the Federal Energy Regulatory Commission (“FERC”) regulatory authorizations required for NEXUS and the status of each:

Application Filed	November 2015
Draft Environmental Impact Statement (“EIS”) Issued	July 2016
Draft EIS Comment Period Closed	August 2016
Final EIS Issued	Expected November 2016
Federal Authorization Decision Deadline	Expected February 2017*

\*The Federal Authorization Decision Deadline is 90 days from the issuance of the Final EIS.

UNION GAS LIMITED

Answer to Interrogatory from  
Vulnerable Energy Consumers Coalition ("VECC")

Reference: Exhibit A, Tab 1, pg.11

- a) Please explain more fully how the introduction of the Dawn Reference Price (EB-2015-0181) impacts on a going forward basis the decision to not incorporate the PDCI credit in the gas supply transportation rate. Specifically does the gas supply transportation rate continue to exist and be applied after January 1, 2017?
  - b) Why is a separate PDCI credit account not preferable to the SPVGA?
- 

**Response:**

- a) As described in the the Dawn Reference Price and North T-Service (EB-2015-0181) Settlement Proposal, pp. 10 and 11:

*"The use of a Dawn Reference Price will minimize or eliminate the difference between the cost of the Union South portfolio and the cost of serving Union South sales service customers using a Dawn Reference Price, thereby eliminating the need for the South Portfolio Cost Differential ("SPCD"). Accordingly, the Union South transportation rate is not required for sales service customers and will be set to zero."*

Union is proposing to credit the SPGVA for the Union South sales service PDCI credit because the Union South gas supply transportation rate is set to zero beginning January 1, 2017.

- b) Union's proposal to use the SPGVA for the PDCI credit payment to sales service customers matches the credit payment with the associated cost of the transportation contracts and utilizes an already established process for disposition to customers. The use of the SPGVA eliminates the introduction of a new mechanism to dispose of the PDCI credit payment.

UNION GAS LIMITED

Answer to Interrogatory from  
Vulnerable Energy Consumers Coalition (“VECC”)

Reference: Exhibit A, Tab 1, Schedule 20

- a) Using Schedule 20, page 5 (sales service) and page 6 (direct purchase) please show the derivation of the 2015 and 2016 PDCI costs.

---

**Response:**

- a) Please see the response at Exhibit B.LPMA.4 a).

Union estimates the PDCI cost in 2016 to be approximately \$2.9 million for the two-month period from November 1, 2016 to December 31, 2016 as calculated in Table 1 below.

Table 1  
2016 PDCI Cost Estimate

	Parkway Obligation (TJ/d) (1)	2016 PDCI Rate (\$/GJ) (2)	2016 PDCI Cost Estimate (\$000's) (3)
	(a)	(b)	(c)=(a)*(-b)*61
Direct Purchase (“DP”) Customers	292	(0.134)	2,387
Sales Service Customers	58	(0.134)	474
			<u>2,861</u>

Notes:

- (1) DP customers Parkway Obligation (“PDO”) calculated as total DP PDO of 376 TJ/d less PDO for TCE Halton Hills of 84 TJ/d per Exhibit A, Tab 2, Attachment 1, column (j), lines 9 and 22, respectively.
- Sales service customers Parkway Obligation calculated based on the Union South gas supply portfolio firm transportation contracts to the Parkway area prior to TransCanada's implementation of its Maple project. Upon the in-service of TransCanada's Maple project, the gas supply portfolio contracts will reduce to 28 TJ/d if the in-service is prior to January 1, 2017 and 19 TJ/d at January 1, 2017 or 19 TJ/d upon the in-service if subsequent to January 1, 2017.
- (2) Per October 1, 2016 QRAM (EB-2016-0247) applicable rate schedules.
- (3) Based on the 61 days of November and December.

UNION GAS LIMITED

Answer to Interrogatory from  
Vulnerable Energy Consumers Coalition (“VECC”)

Reference: Exhibit A, Tab 1, Appendix A

What were the reasons for the Madoc interruptions in which it appears that no customers or volumes were affected?

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**Response:**

Exhibit A, Tab 1, Appendix A indicates that one Madoc customer was affected by an interruption lasting two days. It also indicates that no Madoc customers were non-compliant.



UNION GAS LIMITED

Answer to Interrogatory from  
Vulnerable Energy Consumers Coalition (“VECC”)

Reference: Exhibit A, Tab 4, pg.6

- a) Presumably existing T2 customers wish to avail themselves to the new CMS in order to save money. If so, how can this new service be offered and still meet the principles of inter class revenue neutrality while leaving Union financially harmless. Specifically, please explain if the Monthly Billing Adjustment is intended to achieve both inter and intra class revenue neutrality and how.

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**Response:**

- a) The Monthly Billing Adjustment is intended to achieve financial neutrality for the CMS customer and Union. There are no financial impacts to other rate classes or other Rate T2 customers (inter and intra class neutrality) during the current IRM term, as the service uses the existing Rate T2 storage rates.

Please see the response at Exhibit B.Staff.12 f) for a description of the potential cost allocation impacts upon rebasing.

Please see the response at Exhibit B.LPMA.6 c) for a description of the Monthly Billing Adjustment upon rebasing.