

NEB No. 441
Cancels NEB No. 436

FERC No. 45.16.0
Cancels FERC No. 45.15.1



ENBRIDGE PIPELINES INC.

IN CONNECTION WITH

ENBRIDGE ENERGY, LIMITED PARTNERSHIP

INTERNATIONAL JOINT RATE TARIFF

APPLYING ON

CRUDE PETROLEUM, CONDENSATES AND NATURAL GAS LIQUIDS
FROM

POINTS IN THE PROVINCES OF ALBERTA, SASKATCHEWAN, MANITOBA,

TO

**POINTS IN THE PROVINCE OF ONTARIO AND POINTS IN THE STATES OF ILLINOIS, INDIANA,
MICHIGAN, MINNESOTA, NEW YORK, AND WISCONSIN**

USING JOINT ROUTING AS DEPICTED ON PAGE 5 OF THIS TARIFF

The transportation rates listed in this tariff are subject to the Rules and Regulations published by:

Enbridge Pipelines Inc., NEB (National Energy Board) Tariffs Nos. [W] ~~438 418~~, 389 and 417 and reissues thereof, on file with the National Energy Board, for transportation within Canada.

Enbridge Energy, Limited Partnership FERC Tariff Nos. [W] 41.15.0 ~~41.14.0~~ and 42.5.0, and reissues thereof, for transportation within the United States.

The provisions published herein will, if effective, not result in an effect on the quality of the human environment.

ISSUED: November 28, 2018

EFFECTIVE: January 1, 2019

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The rates listed in this tariff are payable in United States currency and are applicable on the International movement of Crude Petroleum, Condensates and Natural Gas Liquids tendered to Enbridge Pipelines Inc. at established receiving points in Canada for delivery to established delivery points in the United States and Canada.

TRANSPORTATION RATES

Commodities shall be classified on the basis of the density and viscosity of such commodities at the time of receipt by Enbridge Pipelines Inc. and assessed a transportation rate as listed in the transportation rate tables below. Density shall be based on 15°C. Viscosity shall be based on Enbridge Pipelines Inc.'s reference line temperature at the time of receipt. Where the density of a commodity falls within the density range of one commodity classification and the viscosity of the commodity falls within the viscosity range of another commodity classification, then the commodity shall be deemed to be in the commodity classification with the higher transportation rate.

NATURAL GAS LIQUIDS (NGL) - A commodity having a maximum absolute vapor pressure of 1,250 kilopascals at 37.8°C and a density of up to but not including 600 kilograms per cubic meter (kg/m³) and a viscosity of up to but not including 0.4 square millimeters per second (mm²/s) will be classified as **Natural Gas Liquids**.

CONDENSATES (CND) – A commodity having a density from 600 kg/ m³ up to but not including 800 kg/ m³ and a viscosity of 0.4 mm²/s up to but not including 2 mm²/s will be classified as **Condensates**.

LIGHT CRUDE PETROLEUM (LIGHT) - A commodity having a density from 800 kg/m³ up to but not including 876 kg/m³ and a viscosity from 2 mm²/s up to but not including 20 mm²/s will be classified as **Light Crude Petroleum**.

MEDIUM CRUDE PETROLEUM (MEDIUM) - A commodity having a density from 876 kg/m³ up to but not including 904 kg/m³ and a viscosity from 20 mm²/s up to but not including 100 mm²/s will be classified as **Medium Crude Petroleum**.

HEAVY CRUDE PETROLEUM (HEAVY) - A commodity having a density from 904 kg/m³ to 940 kg/m³ inclusive and a viscosity from 100 up to and including 350 mm²/s will be classified as **Heavy Crude Petroleum**.

[D] All rates on this page have decreased

**INTERNATIONAL JOINT TRANSPORTATION RATES FOR ENBRIDGE PIPELINES
INC. AND ENBRIDGE ENERGY, LIMITED PARTNERSHIP**

INTERNATIONAL JOINT TRANSPORTATION RATES IN US DOLLARS PER CUBIC METER						
FROM	TO	RATE				
		NGL	CND	LIGHT	MEDIUM	HEAVY
Edmonton Terminal, Alberta	Clearbrook, Minnesota		15.3928	16.2645	17.2808	19.0611
	Superior, Wisconsin	17.2822	18.0823	18.9545	20.1754	22.3109
	Lockport, Illinois		24.9110	25.7835	27.5050	30.5208
	Mokena, Illinois		24.9110	25.7835	27.5050	30.5208
	Flanagan, Illinois		24.4631	25.3356	27.0571	30.0729
	Griffith, Indiana		24.9110	25.7835	27.5050	30.5208
	Stockbridge, Michigan		27.2138	28.0866	29.9922	33.3313
	Rapid River, Michigan	21.0416				
	Marysville, Michigan		27.2138	28.0866	29.9922	33.3313
	Corunna or Sarnia Terminal, Ontario	25.9801	27.5750	28.4562	30.3719	33.7220
	Nanticoke, Ontario		29.7911	30.8606	32.9644	36.6443
	West Seneca, New York		30.1185	31.2098	33.3616	37.1267
Hardisty Terminal, Alberta	Clearbrook, Minnesota			13.1006	13.9944	15.5604
	Superior, Wisconsin			15.7906	16.8890	18.8103
	Lockport, Illinois			22.6198	24.2187	27.0200
	Mokena, Illinois			22.6198	24.2187	27.0200
	Flanagan, Illinois			22.1719	23.7708	26.5721
	Griffith, Indiana			22.6198	24.2187	27.0200
	Stockbridge, Michigan			24.9228	26.7060	29.8307
	Rapid River, Michigan					
	Marysville, Michigan			24.9228	26.7060	29.8307
	Corunna or Sarnia Terminal, Ontario			25.2926	27.0856	30.2217
	Nanticoke, Ontario			27.6966	29.6780	33.1436
	West Seneca, New York			28.0462	30.0755	33.6261

[D] All rates on this page have decreased

INTERNATIONAL JOINT TRANSPORTATION RATES IN US DOLLARS PER CUBIC METER						
FROM	TO	RATE				
		NGL	CND	LIGHT	MEDIUM	HEAVY
Kerrobot Station, Saskatchewan	Clearbrook, Minnesota			11.5276		13.6486
	Superior, Wisconsin	12.8523		14.2176		16.8984
	Lockport, Illinois			21.0467		25.1083
	Mokena, Illinois			21.0467		25.1083
	Flanagan, Illinois			20.5988		24.6604
	Griffith, Indiana			21.0467		25.1083
	Stockbridge, Michigan			23.3497		27.9188
	Rapid River, Michigan	16.6118				
	Marysville, Michigan			23.3497		27.9188
	Corunna or Sarnia Terminal, Ontario	21.5502		23.7193		28.3094
	Nanticoke, Ontario			26.1236		31.2316
	West Seneca, New York			26.4729		31.7141
Regina Terminal, Saskatchewan	Clearbrook, Minnesota			8.3725		9.8139
	Superior, Wisconsin			11.0623		13.0637
	Lockport, Illinois			17.8915		21.2737
	Mokena, Illinois			17.8915		21.2737
	Flanagan, Illinois			17.4436		20.8258
	Griffith, Indiana			17.8915		21.2737
	Stockbridge, Michigan			20.1947		24.0844
	Rapid River, Michigan					
	Marysville, Michigan			20.1947		24.0844
	Corunna or Sarnia Terminal, Ontario			20.5642		24.4751
	Nanticoke, Ontario			22.9688		27.3972
	West Seneca, New York			23.3180		27.8795
Cromer Terminal, Manitoba	Clearbrook, Minnesota			6.0933	6.4385	7.0440
	Superior, Wisconsin	7.9500		8.7835	9.3332	10.2939
	Lockport, Illinois			15.6127	16.6626	18.5036
	Mokena, Illinois			15.6127	16.6626	18.5036
	Flanagan, Illinois			15.1648	16.2147	18.0557
	Griffith, Indiana			15.6127	16.6626	18.5036
	Stockbridge, Michigan			17.9157	19.1499	21.3143
	Rapid River, Michigan	11.7096				
	Marysville, Michigan			17.9157	19.1499	21.3143
	Corunna or Sarnia Terminal, Ontario	16.6481		18.2851	19.5293	21.7049
	Nanticoke, Ontario			20.6896	22.1221	24.6271
	West Seneca, New York			21.0389	22.5192	25.1095

The above tables provide rates including Transmission and Terminalling Charges, as well as the Abandonment Surcharges, the Edmonton Transportation Surcharge, the Phase 1 Southern Access Expansion Surcharge, the Interim Lakehead Operational Tank Surcharge, the Line 78 (Line 62) Twin Surcharge, the CTS Section 20.1 surcharge, the Non-Performance Penalty, and the Line 61 Twin Surcharge. For further information on the applicable tankage charges in Canada and the United States, refer to Enbridge Pipelines Inc.'s NEB Tariff No. [W] ~~440~~ 432, Enbridge Pipelines Inc.'s NEB RT Tariff No. [W] ~~18-2~~ 18-4, and Enbridge Energy, Limited Partnership's FERC Tariff No. [W] ~~43.28.0~~ 43.25.0. For the applicable Oil Allowance charges in Canada and the United States, refer to Enbridge Pipelines Inc.'s NEB Tariff No. [W] ~~440~~ 432, and Enbridge Energy, Limited Partnership's FERC Tariff No. [W] ~~41.15.0~~ 41.14.0.

Notes:

Abandonment Surcharge: The transportation rates include Abandonment Surcharges for transmission and terminalling pursuant to National Energy Board Decision MH-001-2013 and Order MO-030-2014 for movements of all commodities. All movements to the United States incur a receipt terminalling Abandonment Surcharge. Movements to Corunna or Sarnia Terminal, Ontario and Nanticoke, Ontario incur both a receipt and delivery terminalling Abandonment Surcharge.

Edmonton Transportation Surcharge: Pursuant to CTS Section 16.3, the transportation tolls from the Edmonton Terminal, Alberta receiving point include a surcharge for transmission and terminalling, which is adjusted on July 1 for the GDPP Index but not adjusted for distance or commodity type.

Phase 1 Southern Access Expansion Surcharge: Pursuant to CTS Section 16.3, the transportation tolls for all movements downstream of Superior, Wisconsin include a surcharge, which is adjusted on July 1 for the GDPP Index but not adjusted for distance or commodity type.

Interim Lakehead Operational Tank Surcharge: Pursuant to CTS Section 16.3, the transportation tolls for all movements downstream of Superior, Wisconsin include a surcharge, which is adjusted on July 1 for the GDPP Index but not adjusted for distance or commodity type.

Line 78 (Line 62 Twin) Surcharge: Pursuant to CTS Section 16.3, the transportation tolls for all commodity movements into and east of Chicago include a surcharge, which is adjusted on July 1 for the GDPP Index but not adjusted for distance or commodity type.

CTS Section 20.1(i) Surcharge: Pursuant to CTS Section 20.1(i), the transportation tolls include a surcharge for Regulatory Change(s) or Enbridge Specific Regulatory Change(s), which is adjusted for distance and commodity type.

Non-Performance Penalty: The transportation tolls for all commodity movements include a surcredit for refund of collections under the Non-Performance Penalty, which is adjusted for distance only.

Line 61 Twin Surcharge: Pursuant to CTS Section 13.1(e), the transportation tolls include a surcharge, which is adjusted for distance and commodity type.

JOINT ROUTING:**Receipt Points in the provinces of Alberta, Saskatchewan, and Manitoba to delivery points in the province of Ontario and the states of Illinois, Indiana, Michigan, Minnesota, and New York**

Enbridge Pipelines Inc. – Edmonton or Hardisty, Alberta; Kerrobert or Regina, Saskatchewan; or Cromer, Manitoba to the International Border near Gretna, Manitoba, connecting to;

Enbridge Energy, Limited Partnership – International Border near Neche, North Dakota to Clearbrook, Minnesota; Superior, Wisconsin; Lockport or Mokena, Illinois; Griffith, Indiana; Stockbridge or Rapid River, Michigan; or Marysville, Michigan, connecting to;

Enbridge Pipelines Inc. – International Border near Sarnia, Ontario to Corunna or Sarnia Terminal, Ontario or Nanticoke, Ontario, connecting to;

Enbridge Energy, Limited Partnership – International Border near Grand Island, New York to West Seneca, New York.

EXCEPTIONS:

For exceptions to Enbridge Pipelines Inc., Rules and Regulations and Enbridge Energy, Limited Partnership, Rules and Regulations, see the following:

- 1) **Exception to Enbridge Energy, Limited Partnership’s Rules and Regulations FERC No. [W] 41.15.0 41.14.0 Item 9 (h) and FERC No. 42.5.0 Item 10 (i).** For the purposes of this international joint tariff, Enbridge Pipelines Inc. shall collect in kind a percentage, in the amount of 1/10th of 1 percent of all hydrocarbons physically delivered at the designated Regular Delivery Point.
- 2) **Exception to Enbridge Energy, Limited Partnership’s Rules and Regulations FERC No. [W] 41.15.0 41.14.0 Item 7 (a) and FERC No. 42.5.0 Item 8 (c).** For the purposes of this international joint tariff, Enbridge Pipelines Inc. shall charge a shipper the rate for the transportation of Crude Petroleum that is in effect on the date of delivery at the designated Regular Delivery Point for such Crude Petroleum.

SYMBOLS:

[D] – Decrease

[W] – Change in wording only

IJT Joint Rate versus Combination of Local Rates for NGLs
Enbridge Pipelines Inc. and Enbridge Energy, Limited Partnership International Joint Rates
NEB Tariff No. 440 + FERC Tariff No. 43.28.0 versus NEB No. 441/FERC No. 45.16.0
Effective: January 1, 2019

Line No.	From	To	Canadian Local Toll per NEB No. 440 ¹ (US\$/m3)	US Local Rate per FERC No. 43.28.0 (US\$/m3)	Total of Local Rates (US\$/m3)	IJT per NEB No. 441/FERC No. 45.16.0 (US\$/m3)	Discount Resulting from Joint Rate (US\$/m3)
(a)	(b)	(c)	(d)	(e)	(f) = (d) +(e)	(g)	(h) = (g) - (f)
1	Edmonton	Superior	14.3078	4.7684	19.0762	17.2822	(1.7940)
2	Edmonton	Rapid River	14.3078	7.8807	22.1885	21.0416	(1.1469)
3	Edmonton	Sarnia	14.7773	12.2540	27.0313	25.9801	(1.0512)
4	Kerrobert	Superior	9.8505	4.7684	14.6189	12.8523	(1.7666)
5	Kerrobert	Rapid River	9.8505	7.8807	17.7312	16.6118	(1.1194)
6	Kerrobert	Sarnia	10.3200	12.2540	22.5740	21.5502	(1.0238)
7	Cromer	Superior	4.7498	4.7684	9.5182	7.9500	(1.5682)
8	Cromer	Rapid River	4.7498	7.8807	12.6305	11.7096	(0.9209)
9	Cromer	Sarnia	5.2193	12.2540	17.4733	16.6481	(0.8252)

1. Column (d) shows the Canadian Local Toll NEB No. 440 converted into United States currency using a factor of \$1.30 CAD per \$1.00 U.S. (rounded to the nearest nickel).

IJT Joint Rate versus Combination of Local Rates for Condensates
Enbridge Pipelines Inc. and Enbridge Energy, Limited Partnership International Joint Rates
NEB Tariff No. 440 + FERC Tariff No. 43.28.0 versus NEB No. 441/FERC No. 45.16.0

Effective: January 1, 2019

Line No.	From	To	Canadian Local Toll per NEB No. 4401 (US\$/m3)	US Local Rate per FERC No. 43.28.0 (US\$/m3)	Total of Local Rates (US\$/m3)	IJT per NEB No. 441/FERC No. 45.16.0 (US\$/m3)	Discount Resulting from Joint Rate (US\$/m3)
(a)	(b)	(c)	(d)	(e)	(f) = (d) +(e)	(g)	(h) = (g) - (f)
1	Edmonton	Clearbrook	14.7075	2.6136	17.3211	15.3928	(1.9283)
2	Edmonton	Superior	14.7075	5.3867	20.0942	18.0823	(2.0119)
3	Edmonton	Lockport	14.7075	11.6283	26.3358	24.9110	(1.4248)
4	Edmonton	Mokena	14.7075	11.6283	26.3358	24.9110	(1.4248)
5	Edmonton	Flanagan	14.7075	11.6283	26.3358	24.4631	(1.8727)
6	Edmonton	Griffith	14.7075	11.6283	26.3358	24.9110	(1.4248)
7	Edmonton	Stockbridge	14.7075	13.9835	28.6910	27.2138	(1.4772)
8	Edmonton	Marysville	14.7075	13.9835	28.6910	27.2138	(1.4772)
9	Edmonton	Sarnia	15.1785	13.6740	28.8525	27.5750	(1.2775)
10	Edmonton	Nanticoke	16.8945	13.6740	30.5685	29.7911	(0.7774)
11	Edmonton	West Seneca	16.6980	14.3255	31.0235	30.1185	(0.9050)

1. Column (d) shows the Canadian Local Toll NEB No. 440 converted unto United States currency using a factor of \$1.30 CAD per \$1.00 U.S. (rounded to the nearest nickel).

IJT Joint Rate versus Combination of Local Rates for Light Crude Petroleum
Enbridge Pipelines Inc. and Enbridge Energy, Limited Partnership International Joint Rates
NEB Tariff No. 440 + FERC Tariff No. 43.28.0 versus NEB No. 441/FERC No. 45.16.0
Effective: January 1, 2019

Line No.	From	To	Canadian Local Toll per NEB No. 440 ¹	US Local Rate per FERC No. 43.28.0	Total of Local Rates	IJT per NEB No. 441/FERC No. 45.16.0	Discount Resulting from Joint Rate
			(US\$/m3)	(US\$/m3)	(US\$/m3)	(US\$/m3)	(US\$/m3)
(a)	(b)	(c)	(d)	(e)	(f) = (d) + (e)	(g)	(h) = (g) - (f)
1	Edmonton	Clearbrook	15.6180	2.6136	18.2316	16.2645	(1.9671)
2	Edmonton	Superior	15.6180	5.3867	21.0047	18.9545	(2.0502)
3	Edmonton	Lockport	15.6180	11.6283	27.2463	25.7835	(1.4628)
4	Edmonton	Mokena	15.6180	11.6283	27.2463	25.7835	(1.4628)
5	Edmonton	Flanagan	15.6180	11.6283	27.2463	25.3356	(1.9107)
6	Edmonton	Griffith	15.6180	11.6283	27.2463	25.7835	(1.4628)
7	Edmonton	Stockbridge	15.6180	13.9835	29.6015	28.0866	(1.5149)
8	Edmonton	Marysville	15.6180	13.9835	29.6015	28.0866	(1.5149)
9	Edmonton	Sarnia	16.0950	13.6740	29.7690	28.4562	(1.3128)
10	Edmonton	Nanticoke	17.9573	13.6740	31.6313	30.8606	(0.7707)
11	Edmonton	West Seneca	17.7773	14.3255	32.1028	31.2098	(0.8930)
12	Hardisty	Clearbrook	12.4800	2.6136	15.0936	13.1006	(1.9930)
13	Hardisty	Superior	12.4800	5.3867	17.8667	15.7906	(2.0761)
14	Hardisty	Lockport	12.4800	11.6283	24.1083	22.6198	(1.4885)
15	Hardisty	Mokena	12.4800	11.6283	24.1083	22.6198	(1.4885)
16	Hardisty	Flanagan	12.4800	11.6283	24.1083	22.1719	(1.9364)
17	Hardisty	Griffith	12.4800	11.6283	24.1083	22.6198	(1.4885)
18	Hardisty	Stockbridge	12.4800	13.9835	26.4635	24.9228	(1.5407)
19	Hardisty	Marysville	12.4800	13.9835	26.4635	24.9228	(1.5407)
20	Hardisty	Sarnia	12.9570	13.6740	26.6310	25.2926	(1.3384)
21	Hardisty	Nanticoke	14.8193	13.6740	28.4933	27.6966	(0.7967)
22	Hardisty	West Seneca	14.6393	14.3255	28.9648	28.0462	(0.9186)
23	Kerrobert	Clearbrook	10.8413	2.6136	13.4549	11.5276	(1.9273)
24	Kerrobert	Superior	10.8413	5.3867	16.2280	14.2176	(2.0104)
25	Kerrobert	Lockport	10.8413	11.6283	22.4696	21.0467	(1.4229)
26	Kerrobert	Mokena	10.8413	11.6283	22.4696	21.0467	(1.4229)
27	Kerrobert	Flanagan	10.8413	11.6283	22.4696	20.5988	(1.8708)
28	Kerrobert	Griffith	10.8413	11.6283	22.4696	21.0467	(1.4229)
29	Kerrobert	Stockbridge	10.8413	13.9835	24.8248	23.3497	(1.4751)
30	Kerrobert	Marysville	10.8413	13.9835	24.8248	23.3497	(1.4751)
31	Kerrobert	Sarnia	11.3183	13.6740	24.9923	23.7193	(1.2730)
32	Kerrobert	Nanticoke	13.1805	13.6740	26.8545	26.1236	(0.7309)
33	Kerrobert	West Seneca	13.0005	14.3255	27.3260	26.4729	(0.8531)
34	Regina	Clearbrook	7.5533	2.6136	10.1669	8.3725	(1.7944)
35	Regina	Superior	7.5533	5.3867	12.9400	11.0623	(1.8777)
36	Regina	Lockport	7.5533	11.6283	19.1816	17.8915	(1.2901)
37	Regina	Mokena	7.5533	11.6283	19.1816	17.8915	(1.2901)
38	Regina	Flanagan	7.5533	11.6283	19.1816	17.4436	(1.7380)
39	Regina	Griffith	7.5533	11.6283	19.1816	17.8915	(1.2901)
40	Regina	Stockbridge	7.5533	13.9835	21.5368	20.1947	(1.3421)
41	Regina	Marysville	7.5533	13.9835	21.5368	20.1947	(1.3421)
42	Regina	Sarnia	8.0303	13.6740	21.7043	20.5642	(1.1401)
43	Regina	Nanticoke	9.8925	13.6740	23.5665	22.9688	(0.5977)
44	Regina	West Seneca	9.7125	14.3255	24.0380	23.3180	(0.7200)
45	Cromer	Clearbrook	5.1825	2.6136	7.7961	6.0933	(1.7028)
46	Cromer	Superior	5.1825	5.3867	10.5692	8.7835	(1.7857)
47	Cromer	Lockport	5.1825	11.6283	16.8108	15.6127	(1.1981)
48	Cromer	Mokena	5.1825	11.6283	16.8108	15.6127	(1.1981)
49	Cromer	Flanagan	5.1825	11.6283	16.8108	15.1648	(1.6460)
50	Cromer	Griffith	5.1825	11.6283	16.8108	15.6127	(1.1981)
51	Cromer	Stockbridge	5.1825	13.9835	19.1660	17.9157	(1.2503)
52	Cromer	Marysville	5.1825	13.9835	19.1660	17.9157	(1.2503)
53	Cromer	Sarnia	5.6595	13.6740	19.3335	18.2851	(1.0484)
54	Cromer	Nanticoke	7.5218	13.6740	21.1958	20.6896	(0.5062)
55	Cromer	West Seneca	7.3418	14.3255	21.6673	21.0389	(0.6284)

1. Column (d) shows the Canadian Local Toll NEB No. 440 converted into United States currency from Canadian currency using a factor of \$1.30 CAD per \$1.00 U.S. (rounded to the nearest nickel).

IJT Joint Rate versus Combination of Local Rates for Medium Crude Petroleum
Enbridge Pipelines Inc. and Enbridge Energy, Limited Partnership International Joint Rates
NEB Tariff No. 440 + FERC Tariff No. 43.28.0 versus NEB No. 441/FERC No. 45.16.0
Effective: January 1, 2019

Line No.	From	To	Canadian Local Toll per NEB No. 4401 (US\$/m3)	US Local Rate per FERC No. 43.28.0 (US\$/m3)	Total of Local Rates (US\$/m3)	IJT per NEB No. 441/FERC No. 45.16.0 (US\$/m3)	Discount Resulting from Joint Rate (US\$/m3)
(a)	(b)	(c)	(d)	(e)	(f) = (d) + (e)	(g)	(h) = (g) - (f)
1	Edmonton	Clearbrook	16.6673	2.7617	19.4290	17.2808	(2.1482)
2	Edmonton	Superior	16.6673	5.7441	22.4114	20.1754	(2.2360)
3	Edmonton	Lockport	16.6673	12.4974	29.1647	27.5050	(1.6597)
4	Edmonton	Mokena	16.6673	12.4974	29.1647	27.5050	(1.6597)
5	Edmonton	Flanagan	16.6673	12.4974	29.1647	27.0571	(2.1076)
6	Edmonton	Griffith	16.6673	12.4974	29.1647	27.5050	(1.6597)
7	Edmonton	Stockbridge	16.6673	15.0408	31.7081	29.9922	(1.7159)
8	Edmonton	Marysville	16.6673	15.0408	31.7081	29.9922	(1.7159)
9	Edmonton	Sarnia	17.1525	14.7332	31.8857	30.3719	(1.5138)
10	Edmonton	Nanticoke	19.1595	14.7332	33.8927	32.9644	(0.9283)
11	Edmonton	West Seneca	18.9945	15.4115	34.4060	33.3616	(1.0444)
12	Hardisty	Clearbrook	13.3988	2.7617	16.1605	13.9944	(2.1661)
13	Hardisty	Superior	13.3988	5.7441	19.1429	16.8890	(2.2539)
14	Hardisty	Lockport	13.3988	12.4974	25.8962	24.2187	(1.6775)
15	Hardisty	Mokena	13.3988	12.4974	25.8962	24.2187	(1.6775)
16	Hardisty	Flanagan	13.3988	12.4974	25.8962	23.7708	(2.1254)
17	Hardisty	Griffith	13.3988	12.4974	25.8962	24.2187	(1.6775)
18	Hardisty	Stockbridge	13.3988	15.0408	28.4396	26.7060	(1.7336)
19	Hardisty	Marysville	13.3988	15.0408	28.4396	26.7060	(1.7336)
20	Hardisty	Sarnia	13.8840	14.7332	28.6172	27.0856	(1.5316)
21	Hardisty	Nanticoke	15.8910	14.7332	30.6242	29.6780	(0.9462)
22	Hardisty	West Seneca	15.7260	15.4115	31.1375	30.0755	(1.0620)
23	Cromer	Clearbrook	5.5268	2.7617	8.2885	6.4385	(1.8500)
24	Cromer	Superior	5.5268	5.7441	11.2709	9.3332	(1.9377)
25	Cromer	Lockport	5.5268	12.4974	18.0242	16.6626	(1.3616)
26	Cromer	Mokena	5.5268	12.4974	18.0242	16.6626	(1.3616)
27	Cromer	Flanagan	5.5268	12.4974	18.0242	16.2147	(1.8095)
28	Cromer	Griffith	5.5268	12.4974	18.0242	16.6626	(1.3616)
29	Cromer	Stockbridge	5.5268	15.0408	20.5676	19.1499	(1.4177)
30	Cromer	Marysville	5.5268	15.0408	20.5676	19.1499	(1.4177)
31	Cromer	Sarnia	6.0120	14.7332	20.7452	19.5293	(1.2159)
32	Cromer	Nanticoke	8.0190	14.7332	22.7522	22.1221	(0.6301)
33	Cromer	West Seneca	7.8540	15.4115	23.2655	22.5192	(0.7463)

1. Column (d) shows the Canadian Local Toll NEB No. 440 converted into United States currency using a factor of \$1.30 CAD per \$1.00 U.S. (rounded to the nearest nickel).

IJT Joint Rate versus Combination of Local Rates for Heavy Crude Petroleum
Enbridge Pipelines Inc. and Enbridge Energy, Limited Partnership International Joint Rates
NEB Tariff No. 440 + FERC Tariff No. 43.28.0 versus NEB No. 441/FERC No. 45.16.0
Effective: January 1, 2019

Line No.	From	To	Canadian Local Toll per NEB No. 440 ¹ (US\$/m3)	US Local Rate per FERC No. 43.28.0 (US\$/m3)	Total of Local Rates (US\$/m3)	IJT per NEB No. 441/FERC No. 45.16.0 (US\$/m3)	Discount Resulting from Joint Rate (US\$/m3)
(a)	(b)	(c)	(d)	(e)	(f) = (d) +(e)	(g)	(h) = (g) - (f)
1	Edmonton	Clearbrook	18.5040	3.0229	21.5269	19.0611	(2.4658)
2	Edmonton	Superior	18.5040	6.3682	24.8722	22.3109	(2.5613)
3	Edmonton	Lockport	18.5040	14.0221	32.5261	30.5208	(2.0053)
4	Edmonton	Mokena	18.5040	14.0221	32.5261	30.5208	(2.0053)
5	Edmonton	Flanagan	18.5040	14.0221	32.5261	30.0729	(2.4532)
6	Edmonton	Griffith	18.5040	14.0221	32.5261	30.5208	(2.0053)
7	Edmonton	Stockbridge	18.5040	16.8966	35.4006	33.3313	(2.0693)
8	Edmonton	Marysville	18.5040	16.8966	35.4006	33.3313	(2.0693)
9	Edmonton	Sarnia	19.0005	16.5847	35.5852	33.7220	(1.8632)
10	Edmonton	Nanticoke	21.2618	16.5847	37.8465	36.6443	(1.2022)
11	Edmonton	West Seneca	21.1268	17.3112	38.4380	37.1267	(1.3112)
12	Hardisty	Clearbrook	15.0090	3.0229	18.0319	15.5604	(2.4715)
13	Hardisty	Superior	15.0090	6.3682	21.3772	18.8103	(2.5669)
14	Hardisty	Lockport	15.0090	14.0221	29.0311	27.0200	(2.0111)
15	Hardisty	Mokena	15.0090	14.0221	29.0311	27.0200	(2.0111)
16	Hardisty	Flanagan	15.0090	14.0221	29.0311	26.5721	(2.4590)
17	Hardisty	Griffith	15.0090	14.0221	29.0311	27.0200	(2.0111)
18	Hardisty	Stockbridge	15.0090	16.8966	31.9056	29.8307	(2.0749)
19	Hardisty	Marysville	15.0090	16.8966	31.9056	29.8307	(2.0749)
20	Hardisty	Sarnia	15.5055	16.5847	32.0902	30.2217	(1.8685)
21	Hardisty	Nanticoke	17.7668	16.5847	34.3515	33.1436	(1.2079)
22	Hardisty	West Seneca	17.6318	17.3112	34.9430	33.6261	(1.3169)
23	Kerrobert	Clearbrook	13.0185	3.0229	16.0414	13.6486	(2.3928)
24	Kerrobert	Superior	13.0185	6.3682	19.3867	16.8984	(2.4883)
25	Kerrobert	Lockport	13.0185	14.0221	27.0406	25.1023	(1.9323)
26	Kerrobert	Mokena	13.0185	14.0221	27.0406	25.1083	(1.9323)
27	Kerrobert	Flanagan	13.0185	14.0221	27.0406	24.6604	(2.3802)
28	Kerrobert	Griffith	13.0185	14.0221	27.0406	25.1083	(1.9323)
29	Kerrobert	Stockbridge	13.0185	16.8966	29.9151	27.9188	(1.9963)
30	Kerrobert	Marysville	13.0185	16.8966	29.9151	27.9188	(1.9963)
31	Kerrobert	Sarnia	13.5150	16.5847	30.0997	28.3094	(1.7903)
32	Kerrobert	Nanticoke	15.7763	16.5847	32.3610	31.2316	(1.1294)
33	Kerrobert	West Seneca	15.6413	17.3112	32.9525	31.7141	(1.2383)
34	Regina	Clearbrook	9.0248	3.0229	12.0477	9.8139	(2.2338)
35	Regina	Superior	9.0248	6.3682	15.3930	13.0637	(2.3293)
36	Regina	Lockport	9.0248	14.0221	23.0469	21.2737	(1.7732)
37	Regina	Mokena	9.0248	14.0221	23.0469	21.2737	(1.7732)
38	Regina	Flanagan	9.0248	14.0221	23.0469	20.8258	(2.2211)
39	Regina	Griffith	9.0248	14.0221	23.0469	21.2737	(1.7732)
40	Regina	Stockbridge	9.0248	16.8966	25.9214	24.0844	(1.8370)
41	Regina	Marysville	9.0248	16.8966	25.9214	24.0844	(1.8370)
42	Regina	Sarnia	9.5213	16.5847	26.1060	24.4751	(1.6309)
43	Regina	Nanticoke	11.7825	16.5847	28.3672	27.3972	(0.9700)
44	Regina	West Seneca	11.6475	17.3112	28.9587	27.8795	(1.0792)
45	Cromer	Clearbrook	6.1343	3.0229	9.1572	7.0440	(2.1132)
46	Cromer	Superior	6.1343	6.3682	12.5025	10.2939	(2.2086)
47	Cromer	Lockport	6.1343	14.0221	20.1564	18.5036	(1.6528)
48	Cromer	Mokena	6.1343	14.0221	20.1564	18.5036	(1.6528)
49	Cromer	Flanagan	6.1343	14.0221	20.1564	18.0557	(2.1007)
50	Cromer	Griffith	6.1343	14.0221	20.1564	18.5036	(1.6528)
51	Cromer	Stockbridge	6.1343	16.8966	23.0309	21.3143	(1.7166)
52	Cromer	Marysville	6.1343	16.8966	23.0309	21.3143	(1.7166)
53	Cromer	Sarnia	6.6308	16.5847	23.2155	21.7049	(1.5106)
54	Cromer	Nanticoke	8.8920	16.5847	25.4767	24.6271	(0.8496)
55	Cromer	West Seneca	8.7570	17.3112	26.0682	25.1095	(0.9587)

1. Column (d) shows the Canadian Local Toll NEB No. 440 converted to United States currency using a factor of \$1.30 CAD per \$1.00 U.S. (rounded to the nearest nickel).