

CER No. 459

FERC No. 45.20.0

Cancels NEB No. 449

(Issued in lieu of FERC Nos. 45.18.0 & 45.19.0 which were withdrawn)

Cancels FERC No. 45.17.0



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., National Energy Board (NEB) Tariffs Nos. 443, 389 and 417, and reissues thereof, on file with the **[W]** Canada Energy Regulator (CER) (formerly NEB) National Energy Board, for transportation within Canada.

Enbridge Energy, Limited Partnership FERC Tariff Nos. 41.16.0 and 42.5.0, and reissues thereof, for transportation within the United States.

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 receiving points in Canada for delivery to established delivery points in the United States and Canada.

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

[N] Issued on two (2) days' notice under authority of 18 CFR 341.14. This tariff publication is conditionally accepted subject to refund pending a 30-day review period.

ISSUED: November 28, 2019

EFFECTIVE: December 1, 2019

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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**.

The following 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 **[W]** and the Interim Line 3 Replacement Surcharge, ~~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 **[W]** CER NEB Tariff No. **[W]** 458 448, Enbridge Pipelines Inc.'s **[W]** CER NEB RT Tariff No. **[W]** 19-2 49-4, and Enbridge Energy, Limited Partnership's FERC Tariff No. **[W]** 43.34.0 43-31.0. For the applicable Oil Allowance charges in Canada and the United States, refer to Enbridge Pipelines Inc.'s **[W]** CER NEB Tariff No. **[W]** 458 448, and Enbridge Energy, Limited Partnership's FERC Tariff No. 41.16.0.

[I] All rates on this page have increased unless otherwise noted.

**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		16.4435	17.3309	18.3656	20.1780
	Superior, Wisconsin	18.5694	19.3837	20.2755	21.5218	23.7016
	Lockport, Illinois		26.8331	27.7351	29.4994	32.5904
	Mokena, Illinois		26.8331	27.7351	29.4994	32.5904
	Flanagan, Illinois		26.3782	27.2802	29.0445	32.1355
	Griffith, Indiana		26.8331	27.7351	29.4994	32.5904
	Stockbridge, Michigan		29.3604	30.2663	32.2213	35.6468
	Rapid River, Michigan	22.6720				
	Marysville, Michigan		29.3604	30.2663	32.2213	35.6468
	Corunna or Sarnia Terminal, Ontario	28.1090	29.7336	30.6481	32.6133	36.0499
	Nanticoke, Ontario		32.1271	33.2329	35.3889	39.1603
West Seneca, New York		32.5040	33.6320	35.8373	39.6963	
Hardisty Terminal, Alberta	Clearbrook, Minnesota			14.0249	14.9351	16.5300
	Superior, Wisconsin			16.9694	18.0912	20.0536
	Lockport, Illinois			24.4293	26.0691	28.9423
	Mokena, Illinois			24.4293	26.0691	28.9423
	Flanagan, Illinois			23.9744	25.6142	28.4874
	Griffith, Indiana			24.4293	26.0691	28.9423
	Stockbridge, Michigan			26.9604	28.7910	31.9989
	Rapid River, Michigan					
	Marysville, Michigan			26.9604	28.7910	31.9989
	Corunna or Sarnia Terminal, Ontario			27.3423	29.1829	32.4022
	Nanticoke, Ontario			29.9267	31.9586	35.5122
West Seneca, New York			30.3263	32.4073	36.0485	

[!] All rates on this page have increased unless otherwise noted.

INTERNATIONAL JOINT TRANSPORTATION RATES IN US DOLLARS PER CUBIC METER						
From	To	Rate				
		NGL	CND	LIGHT	MEDIUM	HEAVY
Kerrobert Station, Saskatchewan	Clearbrook, Minnesota			12.3339		14.4951
	Superior, Wisconsin	13.8838		15.2784		18.0186
	Lockport, Illinois			22.7381		26.9074
	Mokena, Illinois			22.7381		26.9074
	Flanagan, Illinois			22.2832		26.4525
	Griffith, Indiana			22.7381		26.9074
	Stockbridge, Michigan			25.2693		29.9639
	Rapid River, Michigan	17.9865				
	Marysville, Michigan			25.2693		29.9639
	Corunna or Sarnia Terminal, Ontario	23.4236		25.6510		30.3669
	Nanticoke, Ontario			28.2356		33.4772
	West Seneca, New York			28.6350		34.0134
Regina Terminal, Saskatchewan	Clearbrook, Minnesota			8.9423		10.4134
	Superior, Wisconsin			11.8866		13.9369
	Lockport, Illinois			19.3464		22.8258
	Mokena, Illinois			19.3464		22.8258
	Flanagan, Illinois			18.8915		22.3709
	Griffith, Indiana			19.3464		22.8258
	Stockbridge, Michigan			21.8777		25.8825
	Rapid River, Michigan					
	Marysville, Michigan			21.8777		25.8825
	Corunna or Sarnia Terminal, Ontario			22.2592		26.2854
	Nanticoke, Ontario			24.8441		29.3958
	West Seneca, New York			25.2433		29.9317
Cromer Terminal, Manitoba	Clearbrook, Minnesota			6.4920	6.8453	7.4651
	Superior, Wisconsin	8.5821		9.4367	10.0015	10.9888
	Lockport, Illinois			16.8965	17.9790	19.8774
	Mokena, Illinois			16.8965	17.9790	19.8774
	Flanagan, Illinois			16.4416	17.5241	19.4225
	Griffith, Indiana			16.8965	17.9790	19.8774
	Stockbridge, Michigan			19.4277	20.7010	22.9340
	Rapid River, Michigan	12.6850				
	Marysville, Michigan			19.4277	20.7010	22.9340
	Corunna or Sarnia Terminal, Ontario	18.1218		19.8090	21.0926	23.3370
	Nanticoke, Ontario			22.3939	23.8686	26.4473
	West Seneca, New York			22.7933	24.3171	26.9833

Notes

- a) **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.
- b) **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.
- c) **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.
- d) **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.
- e) **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.
- f) **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.
- g) **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.
- h) **[N] Interim Line 3 Replacement Surcharge:** Pursuant to CTS Section 13.1(c), the transportation tolls for all commodity movements include a transmission surcharge which is adjusted for distance only.
- ~~[C] 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, and Minnesota

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:

- a) **Exception to Enbridge Energy, Limited Partnership's Rules and Regulations FERC No. 41.16.0 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.
- b) **Exception to Enbridge Energy, Limited Partnership's Rules and Regulations FERC No. 41.16.0 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:

[C] – Cancel

[I] – Increase

[N] – New

[W] – Change in wording only

Enbridge Pipelines Inc. and Enbridge Energy, Limited Partnership
International Joint Transportation Rates
Worksheet Supporting CER Tariff No. 459 and FERC No. 45.20.0
Effective: December 1, 2019

JOINT TRANSPORTATION RATES IN US DOLLARS PER CUBIC METER											
Natural Gas Liquids											
NGL Toll (\$/m3)											
FROM	TO	Transmission & Terminalling from NEB No. 449 FERC No. 45.17.0	CTS Section 20.1 (i) Surcharge	Abandonment Surcharge	Edmonton Transportation Surcharge	Phase 1 Southern Access Expansion Surcharge	Interim Lakehead Operational Tank Surcharge	Line 78 (Line 62) Surcharge	Interim Line 3 Replacement Surcharge	Non- Performance Penalty Credit	Total CER No. 459 & FERC No. 45.20.0
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)=(A)+(B)+(C)+ (D)+(E)+(F)+(G)+ (H)+(I)
Edmonton, Alberta	Superior, Wisconsin	15.6620	0.0957	0.2400	1.6245	-	-	-	0.9491	(0.0019)	18.5694
	Rapid River, Michigan	18.7611	0.1604	0.2400	1.6245	0.1950	0.0650	0.4549	1.1730	(0.0019)	22.6720
	Corunna or Sarnia Terminal, Ontario	23.7656	0.2548	0.2448	1.6245	0.1950	0.0650	0.4549	1.5063	(0.0019)	28.1090
Kerrobert, Saskatchewan	Superior, Wisconsin	12.8602	0.0915	0.1730	-	-	-	-	0.7605	(0.0014)	13.8838
	Rapid River, Michigan	15.9594	0.1562	0.1730	-	0.1950	0.0650	0.4549	0.9844	(0.0014)	17.9865
	Corunna or Sarnia Terminal, Ontario	20.9639	0.2507	0.1778	-	0.1950	0.0650	0.4549	1.3177	(0.0014)	23.4236
Cromer, Manitoba	Superior, Wisconsin	8.0073	0.0843	0.0571	-	-	-	-	0.4338	(0.0004)	8.5821
	Rapid River, Michigan	11.1066	0.1490	0.0571	-	0.1950	0.0650	0.4549	0.6578	(0.0004)	12.6850
	Corunna or Sarnia Terminal, Ontario	16.1112	0.2434	0.0618	-	0.1950	0.0650	0.4549	0.9910	(0.0005)	18.1218

JOINT TRANSPORTATION RATES IN US DOLLARS PER CUBIC METER											
Condensate											
CND Toll (\$/m3)											
FROM	TO	Transmission & Terminalling from NEB No. 449 FERC No. 45.17.0	CTS Section 20.1 (i) Surcharge	Abandonment Surcharge	Edmonton Transportation Surcharge	Phase 1 Southern Access Expansion Surcharge	Interim Lakehead Operational Tank Surcharge	Line 78 (Line 62) Surcharge	Interim Line 3 Replacement Surcharge	Non- Performance Penalty Credit	Total CER No. 459 & FERC No. 45.20.0
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)=(A)+(B)+(C)+ (D)+(E)+(F)+(G)+ (H)+(I)
Edmonton, Alberta	Clearbrook, Minnesota	13.7457	0.0496	0.2400	1.6245	-	-	-	0.7856	(0.0019)	16.4435
	Superior, Wisconsin	16.4741	0.0979	0.2400	1.6245	-	-	-	0.9491	(0.0019)	19.3837
	Lockport, Illinois	22.6869	0.2167	0.2400	1.6245	0.1950	0.0650	0.4549	1.3520	(0.0019)	26.8331
	Mokena, Illinois	22.6869	0.2167	0.2400	1.6245	0.1950	0.0650	0.4549	1.3520	(0.0019)	26.8331
	Flanagan, Illinois	22.6869	0.2167	0.2400	1.6245	0.1950	0.0650	-	1.3520	(0.0019)	26.3782
	Griffith, Indiana	22.6869	0.2167	0.2400	1.6245	0.1950	0.0650	0.4549	1.3520	(0.0019)	26.8331
	Stockbridge, Michigan	25.0227	0.2604	0.2400	1.6245	0.1950	0.0650	0.4549	1.4998	(0.0019)	29.3604
	Marysville, Michigan	25.0227	0.2604	0.2400	1.6245	0.1950	0.0650	0.4549	1.4998	(0.0019)	29.3604
	Corunna or Sarnia Terminal, Ontario	25.3845	0.2605	0.2448	1.6245	0.1950	0.0650	0.4549	1.5063	(0.0019)	29.7336
	Nanticoke, Ontario	27.5793	0.2638	0.2961	1.6245	0.1950	0.0650	0.4549	1.6508	(0.0023)	32.1271
West Seneca, New York	27.9078	0.2706	0.2995	1.6245	0.1950	0.0650	0.4549	1.6891	(0.0024)	32.5040	

JOINT TRANSPORTATION RATES IN US DOLLARS PER CUBIC METER											
Light Crude Petroleum											
LGT Toll (\$/m3)											
FROM	TO	Transmission & Terminalling from NEB No. 449 FERC No. 45.17.0	CTS Section 20.1 (i) Surcharge	Abandonment Surcharge	Edmonton Transportation Surcharge	Phase 1 Southern Access Expansion Surcharge	Interim Lakehead Operational Tank Surcharge	Line 78 (Line 62) Surcharge	Interim Line 3 Replacement Surcharge	Non-Performance Penalty Credit	Total CER No. 459 & FERC No. 45.20.0
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)=(A)+(B)+(C)+(D)+(E)+(F)+(G)+(H)+(I)
Edmonton, Alberta	Clearbrook, Minnesota	14.6289	0.0538	0.2400	1.6245	-	-	-	0.7856	(0.0019)	17.3309
	Superior, Wisconsin	17.3575	0.1063	0.2400	1.6245	-	-	-	0.9491	(0.0019)	20.2755
	Lockport, Illinois	23.5700	0.2356	0.2400	1.6245	0.1950	0.0650	0.4549	1.3520	(0.0019)	27.7351
	Mokena, Illinois	23.5700	0.2356	0.2400	1.6245	0.1950	0.0650	0.4549	1.3520	(0.0019)	27.7351
	Flanagan, Illinois	23.5700	0.2356	0.2400	1.6245	0.1950	0.0650	-	1.3520	(0.0019)	27.2802
	Griffith, Indiana	23.5700	0.2356	0.2400	1.6245	0.1950	0.0650	0.4549	1.3520	(0.0019)	27.7351
	Stockbridge, Michigan	25.9060	0.2830	0.2400	1.6245	0.1950	0.0650	0.4549	1.4998	(0.0019)	30.2663
	Marysville, Michigan	25.9060	0.2830	0.2400	1.6245	0.1950	0.0650	0.4549	1.4998	(0.0019)	30.2663
	Corunna or Sarnia Terminal, Ontario	26.2763	0.2832	0.2448	1.6245	0.1950	0.0650	0.4549	1.5063	(0.0019)	30.6481
	Nanticoke, Ontario	28.6621	0.2868	0.2961	1.6245	0.1950	0.0650	0.4549	1.6508	(0.0023)	33.2329
West Seneca, New York	29.0124	0.2940	0.2995	1.6245	0.1950	0.0650	0.4549	1.6891	(0.0024)	33.6320	
Hardisty, Alberta	Clearbrook, Minnesota	13.0768	0.0515	0.2066	-	-	-	-	0.6916	(0.0016)	14.0249
	Superior, Wisconsin	15.8054	0.1040	0.2066	-	-	-	-	0.8550	(0.0016)	16.9694
	Lockport, Illinois	22.0181	0.2333	0.2066	-	0.1950	0.0650	0.4549	1.2580	(0.0016)	24.4293
	Mokena, Illinois	22.0181	0.2333	0.2066	-	0.1950	0.0650	0.4549	1.2580	(0.0016)	24.4293
	Flanagan, Illinois	22.0181	0.2333	0.2066	-	0.1950	0.0650	-	1.2580	(0.0016)	23.9744
	Griffith, Indiana	22.0181	0.2333	0.2066	-	0.1950	0.0650	0.4549	1.2580	(0.0016)	24.4293
	Stockbridge, Michigan	24.3540	0.2807	0.2066	-	0.1950	0.0650	0.4549	1.4058	(0.0016)	26.9604
	Marysville, Michigan	24.3540	0.2807	0.2066	-	0.1950	0.0650	0.4549	1.4058	(0.0016)	26.9604
	Corunna or Sarnia Terminal, Ontario	24.7245	0.2809	0.2114	-	0.1950	0.0650	0.4549	1.4123	(0.0017)	27.3423
	Nanticoke, Ontario	27.1099	0.2845	0.2627	-	0.1950	0.0650	0.4549	1.5568	(0.0021)	29.9267
West Seneca, New York	27.4605	0.2918	0.2661	-	0.1950	0.0650	0.4549	1.5951	(0.0021)	30.3263	

JOINT TRANSPORTATION RATES IN US DOLLARS PER CUBIC METER											
Light Crude Petroleum											
LGT Toll (\$/m3)											
FROM	TO	Transmission & Terminalling from NEB No. 449 FERC No. 45.17.0	CTS Section 20.1 (i) Surcharge	Abandonment Surcharge	Edmonton Transportation Surcharge	Phase 1 Southern Access Expansion Surcharge	Interim Lakehead Operational Tank Surcharge	Line 78 (Line 62) Surcharge	Interim Line 3 Replacement Surcharge	Non- Performance Penalty Credit	Total CER No. 459 & FERC No. 45.20.0
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)=(A)+(B)+(C)+ (D)+(E)+(F)+(G)+ (H)+(I)
Kerrobert, Saskatchewan	Clearbrook, Minnesota	11.5160	0.0492	0.1730	-	-	-	-	0.5971	(0.0014)	12.3339
	Superior, Wisconsin	14.2446	0.1017	0.1730	-	-	-	-	0.7605	(0.0014)	15.2784
	Lockport, Illinois	20.4572	0.2310	0.1730	-	0.1950	0.0650	0.4549	1.1634	(0.0014)	22.7381
	Mokena, Illinois	20.4572	0.2310	0.1730	-	0.1950	0.0650	0.4549	1.1634	(0.0014)	22.7381
	Flanagan, Illinois	20.4572	0.2310	0.1730	-	0.1950	0.0650	-	1.1634	(0.0014)	22.2832
	Griffith, Indiana	20.4572	0.2310	0.1730	-	0.1950	0.0650	0.4549	1.1634	(0.0014)	22.7381
	Stockbridge, Michigan	22.7931	0.2784	0.1730	-	0.1950	0.0650	0.4549	1.3113	(0.0014)	25.2693
	Marysville, Michigan	22.7931	0.2784	0.1730	-	0.1950	0.0650	0.4549	1.3113	(0.0014)	25.2693
	Corunna or Sarnia Terminal, Ontario	23.1634	0.2786	0.1778	-	0.1950	0.0650	0.4549	1.3177	(0.0014)	25.6510
Nanticoke, Ontario	25.5491	0.2821	0.2291	-	0.1950	0.0650	0.4549	1.4622	(0.0018)	28.2356	
West Seneca, New York	25.8995	0.2894	0.2325	-	0.1950	0.0650	0.4549	1.5005	(0.0018)	28.6350	
Regina, Saskatchewan	Clearbrook, Minnesota	8.3854	0.0446	0.1057	-	-	-	-	0.4074	(0.0008)	8.9423
	Superior, Wisconsin	11.1138	0.0971	0.1057	-	-	-	-	0.5708	(0.0008)	11.8866
	Lockport, Illinois	17.3265	0.2264	0.1057	-	0.1950	0.0650	0.4549	0.9737	(0.0008)	19.3464
	Mokena, Illinois	17.3265	0.2264	0.1057	-	0.1950	0.0650	0.4549	0.9737	(0.0008)	19.3464
	Flanagan, Illinois	17.3265	0.2264	0.1057	-	0.1950	0.0650	-	0.9737	(0.0008)	18.8915
	Griffith, Indiana	17.3265	0.2264	0.1057	-	0.1950	0.0650	0.4549	0.9737	(0.0008)	19.3464
	Stockbridge, Michigan	19.6625	0.2738	0.1057	-	0.1950	0.0650	0.4549	1.1216	(0.0008)	21.8777
	Marysville, Michigan	19.6625	0.2738	0.1057	-	0.1950	0.0650	0.4549	1.1216	(0.0008)	21.8777
	Corunna or Sarnia Terminal, Ontario	20.0327	0.2739	0.1105	-	0.1950	0.0650	0.4549	1.1280	(0.0008)	22.2592
Nanticoke, Ontario	22.4187	0.2774	0.1618	-	0.1950	0.0650	0.4549	1.2726	(0.0013)	24.8441	
West Seneca, New York	22.7689	0.2848	0.1652	-	0.1950	0.0650	0.4549	1.3108	(0.0013)	25.2433	
Cromer, Manitoba	Clearbrook, Minnesota	6.1237	0.0412	0.0571	-	-	-	-	0.2704	(0.0004)	6.4920
	Superior, Wisconsin	8.8525	0.0937	0.0571	-	-	-	-	0.4338	(0.0004)	9.4367
	Lockport, Illinois	15.0652	0.2230	0.0571	-	0.1950	0.0650	0.4549	0.8367	(0.0004)	16.8965
	Mokena, Illinois	15.0652	0.2230	0.0571	-	0.1950	0.0650	0.4549	0.8367	(0.0004)	16.8965
	Flanagan, Illinois	15.0652	0.2230	0.0571	-	0.1950	0.0650	-	0.8367	(0.0004)	16.4416
	Griffith, Indiana	15.0652	0.2230	0.0571	-	0.1950	0.0650	0.4549	0.8367	(0.0004)	16.8965
	Stockbridge, Michigan	17.4011	0.2704	0.0571	-	0.1950	0.0650	0.4549	0.9846	(0.0004)	19.4277
	Marysville, Michigan	17.4011	0.2704	0.0571	-	0.1950	0.0650	0.4549	0.9846	(0.0004)	19.4277
	Corunna or Sarnia Terminal, Ontario	17.7713	0.2705	0.0618	-	0.1950	0.0650	0.4549	0.9910	(0.0005)	19.8090
Nanticoke, Ontario	20.1570	0.2741	0.1132	-	0.1950	0.0650	0.4549	1.1356	(0.0009)	22.3939	
West Seneca, New York	20.5075	0.2814	0.1166	-	0.1950	0.0650	0.4549	1.1738	(0.0009)	22.7933	

JOINT TRANSPORTATION RATES IN US DOLLARS PER CUBIC METER											
Medium Crude Petroleum											
MED Toll (\$/m3)											
FROM	TO	Transmission & Terminalling from NEB No. 449 FERC No. 45.17.0	CTS Section 20.1 (i) Surcharge	Abandonment Surcharge	Edmonton Transportation Surcharge	Phase 1 Southern Access Expansion Surcharge	Interim Lakehead Operational Tank Surcharge	Line 78 (Line 62) Surcharge	Interim Line 3 Replacement Surcharge	Non- Performance Penalty Credit	Total CER No. 459 & FERC No. 45.20.0
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)=(A)+(B)+(C)+ (D)+(E)+(F)+(G)+ (H)+(I)
Edmonton, Alberta	Clearbrook, Minnesota	15.6592	0.0582	0.2400	1.6245	-	-	-	0.7856	(0.0019)	18.3656
	Superior, Wisconsin	18.5954	0.1147	0.2400	1.6245	-	-	-	0.9491	(0.0019)	21.5218
	Lockport, Illinois	25.3155	0.2544	0.2400	1.6245	0.1950	0.0650	0.4549	1.3520	(0.0019)	29.4994
	Mokena, Illinois	25.3155	0.2544	0.2400	1.6245	0.1950	0.0650	0.4549	1.3520	(0.0019)	29.4994
	Flanagan, Illinois	25.3155	0.2544	0.2400	1.6245	0.1950	0.0650	-	1.3520	(0.0019)	29.0445
	Griffith, Indiana	25.3155	0.2544	0.2400	1.6245	0.1950	0.0650	0.4549	1.3520	(0.0019)	29.4994
	Stockbridge, Michigan	27.8383	0.3057	0.2400	1.6245	0.1950	0.0650	0.4549	1.4998	(0.0019)	32.2213
	Marysville, Michigan	27.8383	0.3057	0.2400	1.6245	0.1950	0.0650	0.4549	1.4998	(0.0019)	32.2213
	Corunna or Sarnia Terminal, Ontario	28.2188	0.3059	0.2448	1.6245	0.1950	0.0650	0.4549	1.5063	(0.0019)	32.6133
	Nanticoke, Ontario	30.7952	0.3097	0.2961	1.6245	0.1950	0.0650	0.4549	1.6508	(0.0023)	35.3889
West Seneca, New York	31.1942	0.3175	0.2995	1.6245	0.1950	0.0650	0.4549	1.6891	(0.0024)	35.8373	
Hardisty, Alberta	Clearbrook, Minnesota	13.9828	0.0557	0.2066	-	-	-	-	0.6916	(0.0016)	14.9351
	Superior, Wisconsin	16.9190	0.1122	0.2066	-	-	-	-	0.8550	(0.0016)	18.0912
	Lockport, Illinois	23.6393	0.2519	0.2066	-	0.1950	0.0650	0.4549	1.2580	(0.0016)	26.0691
	Mokena, Illinois	23.6393	0.2519	0.2066	-	0.1950	0.0650	0.4549	1.2580	(0.0016)	26.0691
	Flanagan, Illinois	23.6393	0.2519	0.2066	-	0.1950	0.0650	-	1.2580	(0.0016)	25.6142
	Griffith, Indiana	23.6393	0.2519	0.2066	-	0.1950	0.0650	0.4549	1.2580	(0.0016)	26.0691
	Stockbridge, Michigan	26.1621	0.3032	0.2066	-	0.1950	0.0650	0.4549	1.4058	(0.0016)	28.7910
	Marysville, Michigan	26.1621	0.3032	0.2066	-	0.1950	0.0650	0.4549	1.4058	(0.0016)	28.7910
	Corunna or Sarnia Terminal, Ontario	26.5426	0.3034	0.2114	-	0.1950	0.0650	0.4549	1.4123	(0.0017)	29.1829
	Nanticoke, Ontario	29.1190	0.3073	0.2627	-	0.1950	0.0650	0.4549	1.5568	(0.0021)	31.9586
West Seneca, New York	29.5182	0.3151	0.2661	-	0.1950	0.0650	0.4549	1.5951	(0.0021)	32.4073	
Cromer, Manitoba	Clearbrook, Minnesota	6.4737	0.0445	0.0571	-	-	-	-	0.2704	(0.0004)	6.8453
	Superior, Wisconsin	9.4100	0.1010	0.0571	-	-	-	-	0.4338	(0.0004)	10.0015
	Lockport, Illinois	16.1300	0.2407	0.0571	-	0.1950	0.0650	0.4549	0.8367	(0.0004)	17.9790
	Mokena, Illinois	16.1300	0.2407	0.0571	-	0.1950	0.0650	0.4549	0.8367	(0.0004)	17.9790
	Flanagan, Illinois	16.1300	0.2407	0.0571	-	0.1950	0.0650	-	0.8367	(0.0004)	17.5241
	Griffith, Indiana	16.1300	0.2407	0.0571	-	0.1950	0.0650	0.4549	0.8367	(0.0004)	17.9790
	Stockbridge, Michigan	18.6528	0.2920	0.0571	-	0.1950	0.0650	0.4549	0.9846	(0.0004)	20.7010
	Marysville, Michigan	18.6528	0.2920	0.0571	-	0.1950	0.0650	0.4549	0.9846	(0.0004)	20.7010
	Corunna or Sarnia Terminal, Ontario	19.0332	0.2922	0.0618	-	0.1950	0.0650	0.4549	0.9910	(0.0005)	21.0926
	Nanticoke, Ontario	21.6097	0.2961	0.1132	-	0.1950	0.0650	0.4549	1.1356	(0.0009)	23.8686
West Seneca, New York	22.0088	0.3039	0.1166	-	0.1950	0.0650	0.4549	1.1738	(0.0009)	24.3171	

JOINT TRANSPORTATION RATES IN US DOLLARS PER CUBIC METER											
Heavy Crude Petroleum											
HVY Toll (\$/m3)											
FROM	TO	Transmission & Terminalling from NEB No. 449 FERC No. 45.17.0	CTS Section 20.1 (i) Surcharge	Abandonment Surcharge	Edmonton Transportation Surcharge	Phase 1 Southern Access Expansion Surcharge	Interim Lakehead Operational Tank Surcharge	Line 78 (Line 62) Surcharge	Interim Line 3 Replacement Surcharge	Non- Performance Penalty Credit	Total CER No. 459 & FERC No. 45.20.0
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)=(A)+(B)+(C)+ (D)+(E)+(F)+(G)+ (H)+(I)
Edmonton, Alberta	Clearbrook, Minnesota	17.4639	0.0659	0.2400	1.6245	-	-	-	0.7856	(0.0019)	20.1780
	Superior, Wisconsin	20.7602	0.1297	0.2400	1.6245	-	-	-	0.9491	(0.0019)	23.7016
	Lockport, Illinois	28.3735	0.2874	0.2400	1.6245	0.1950	0.0650	0.4549	1.3520	(0.0019)	32.5904
	Mokena, Illinois	28.3735	0.2874	0.2400	1.6245	0.1950	0.0650	0.4549	1.3520	(0.0019)	32.5904
	Flanagan, Illinois	28.3735	0.2874	0.2400	1.6245	0.1950	0.0650	-	1.3520	(0.0019)	32.1355
	Griffith, Indiana	28.3735	0.2874	0.2400	1.6245	0.1950	0.0650	0.4549	1.3520	(0.0019)	32.5904
	Stockbridge, Michigan	31.2241	0.3454	0.2400	1.6245	0.1950	0.0650	0.4549	1.4998	(0.0019)	35.6468
	Marysville, Michigan	31.2241	0.3454	0.2400	1.6245	0.1950	0.0650	0.4549	1.4998	(0.0019)	35.6468
	Corunna or Sarnia Terminal, Ontario	31.6157	0.3456	0.2448	1.6245	0.1950	0.0650	0.4549	1.5063	(0.0019)	36.0499
Hardisty, Alberta	Nanticoke, Ontario	34.5264	0.3499	0.2961	1.6245	0.1950	0.0650	0.4549	1.6508	(0.0023)	39.1603
	West Seneca, New York	35.0119	0.3588	0.2995	1.6245	0.1950	0.0650	0.4549	1.6891	(0.0024)	39.6963
	Clearbrook, Minnesota	15.5703	0.0631	0.2066	-	-	-	-	0.6916	(0.0016)	16.5300
	Superior, Wisconsin	18.8667	0.1269	0.2066	-	-	-	-	0.8550	(0.0016)	20.0536
	Lockport, Illinois	26.4798	0.2846	0.2066	-	0.1950	0.0650	0.4549	1.2580	(0.0016)	28.9423
	Mokena, Illinois	26.4798	0.2846	0.2066	-	0.1950	0.0650	0.4549	1.2580	(0.0016)	28.9423
	Flanagan, Illinois	26.4798	0.2846	0.2066	-	0.1950	0.0650	-	1.2580	(0.0016)	28.4874
	Griffith, Indiana	26.4798	0.2846	0.2066	-	0.1950	0.0650	0.4549	1.2580	(0.0016)	28.9423
	Stockbridge, Michigan	29.3306	0.3426	0.2066	-	0.1950	0.0650	0.4549	1.4058	(0.0016)	31.9989
Hardisty, Alberta	Marysville, Michigan	29.3306	0.3426	0.2066	-	0.1950	0.0650	0.4549	1.4058	(0.0016)	31.9989
	Corunna or Sarnia Terminal, Ontario	29.7225	0.3428	0.2114	-	0.1950	0.0650	0.4549	1.4123	(0.0017)	32.4022
	Nanticoke, Ontario	32.6329	0.3470	0.2627	-	0.1950	0.0650	0.4549	1.5568	(0.0021)	35.5122
	West Seneca, New York	33.1185	0.3560	0.2661	-	0.1950	0.0650	0.4549	1.5951	(0.0021)	36.0485

JOINT TRANSPORTATION RATES IN US DOLLARS PER CUBIC METER											
Heavy Crude Petroleum											
HVY Toll (\$/m3)											
FROM	TO	Transmission & Terminalling from NEB No. 449 FERC No. 45.17.0	CTS Section 20.1 (i) Surcharge	Abandonment Surcharge	Edmonton Transportation Surcharge	Phase 1 Southern Access Expansion Surcharge	Interim Lakehead Operational Tank Surcharge	Line 78 (Line 62) Surcharge	Interim Line 3 Replacement Surcharge	Non- Performance Penalty Credit	Total CER No. 459 & FERC No. 45.20.0
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)=(A)+(B)+(C)+ (D)+(E)+(F)+(G)+ (H)+(I)
Kerrobert, Saskatchewan	Clearbrook, Minnesota	13.6661	0.0603	0.1730	-	-	-	-	0.5971	(0.0014)	14.4951
	Superior, Wisconsin	16.9624	0.1241	0.1730	-	-	-	-	0.7605	(0.0014)	18.0186
	Lockport, Illinois	24.5757	0.2818	0.1730	-	0.1950	0.0650	0.4549	1.1634	(0.0014)	26.9074
	Mokena, Illinois	24.5757	0.2818	0.1730	-	0.1950	0.0650	0.4549	1.1634	(0.0014)	26.9074
	Flanagan, Illinois	24.5757	0.2818	0.1730	-	0.1950	0.0650	-	1.1634	(0.0014)	26.4525
	Griffith, Indiana	24.5757	0.2818	0.1730	-	0.1950	0.0650	0.4549	1.1634	(0.0014)	26.9074
	Stockbridge, Michigan	27.4263	0.3398	0.1730	-	0.1950	0.0650	0.4549	1.3113	(0.0014)	29.9639
	Marysville, Michigan	27.4263	0.3398	0.1730	-	0.1950	0.0650	0.4549	1.3113	(0.0014)	29.9639
	Corunna or Sarnia Terminal, Ontario	27.8180	0.3399	0.1778	-	0.1950	0.0650	0.4549	1.3177	(0.0014)	30.3669
Nanticoke, Ontario	30.7286	0.3442	0.2291	-	0.1950	0.0650	0.4549	1.4622	(0.0018)	33.4772	
West Seneca, New York	31.2141	0.3532	0.2325	-	0.1950	0.0650	0.4549	1.5005	(0.0018)	34.0134	
Regina, Saskatchewan	Clearbrook, Minnesota	9.8466	0.0545	0.1057	-	-	-	-	0.4074	(0.0008)	10.4134
	Superior, Wisconsin	13.1429	0.1183	0.1057	-	-	-	-	0.5708	(0.0008)	13.9369
	Lockport, Illinois	20.7563	0.2760	0.1057	-	0.1950	0.0650	0.4549	0.9737	(0.0008)	22.8258
	Mokena, Illinois	20.7563	0.2760	0.1057	-	0.1950	0.0650	0.4549	0.9737	(0.0008)	22.8258
	Flanagan, Illinois	20.7563	0.2760	0.1057	-	0.1950	0.0650	-	0.9737	(0.0008)	22.3709
	Griffith, Indiana	20.7563	0.2760	0.1057	-	0.1950	0.0650	0.4549	0.9737	(0.0008)	22.8258
	Stockbridge, Michigan	23.6071	0.3340	0.1057	-	0.1950	0.0650	0.4549	1.1216	(0.0008)	25.8825
	Marysville, Michigan	23.6071	0.3340	0.1057	-	0.1950	0.0650	0.4549	1.1216	(0.0008)	25.8825
	Corunna or Sarnia Terminal, Ontario	23.9987	0.3341	0.1105	-	0.1950	0.0650	0.4549	1.1280	(0.0008)	26.2854
	Nanticoke, Ontario	26.9092	0.3386	0.1618	-	0.1950	0.0650	0.4549	1.2726	(0.0013)	29.3958
West Seneca, New York	27.3947	0.3474	0.1652	-	0.1950	0.0650	0.4549	1.3108	(0.0013)	29.9317	
Cromer, Manitoba	Clearbrook, Minnesota	7.0876	0.0504	0.0571	-	-	-	-	0.2704	(0.0004)	7.4651
	Superior, Wisconsin	10.3841	0.1142	0.0571	-	-	-	-	0.4338	(0.0004)	10.9888
	Lockport, Illinois	17.9972	0.2719	0.0571	-	0.1950	0.0650	0.4549	0.8367	(0.0004)	19.8774
	Mokena, Illinois	17.9972	0.2719	0.0571	-	0.1950	0.0650	0.4549	0.8367	(0.0004)	19.8774
	Flanagan, Illinois	17.9972	0.2719	0.0571	-	0.1950	0.0650	-	0.8367	(0.0004)	19.4225
	Griffith, Indiana	17.9972	0.2719	0.0571	-	0.1950	0.0650	0.4549	0.8367	(0.0004)	19.8774
	Stockbridge, Michigan	20.8479	0.3299	0.0571	-	0.1950	0.0650	0.4549	0.9846	(0.0004)	22.9340
	Marysville, Michigan	20.8479	0.3299	0.0571	-	0.1950	0.0650	0.4549	0.9846	(0.0004)	22.9340
	Corunna or Sarnia Terminal, Ontario	21.2397	0.3301	0.0618	-	0.1950	0.0650	0.4549	0.9910	(0.0005)	23.3370
	Nanticoke, Ontario	24.1502	0.3343	0.1132	-	0.1950	0.0650	0.4549	1.1356	(0.0009)	26.4473
West Seneca, New York	24.6356	0.3433	0.1166	-	0.1950	0.0650	0.4549	1.1738	(0.0009)	26.9833	