



## 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

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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 Canada Energy Regulator (CER) (formerly NEB), 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.

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

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

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~~[C] 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.~~

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**ISSUED: November 29, 2019**

**EFFECTIVE: January 1, 2020**

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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/m<sup>3</sup>) and a viscosity of up to but not including 0.4 square millimeters per second (mm<sup>2</sup>/s) will be classified as **Natural Gas Liquids**.

**CONDENSATES (CND)** – A commodity having a density from 600 kg/ m<sup>3</sup> up to but not including 800 kg/ m<sup>3</sup> and a viscosity of 0.4 mm<sup>2</sup>/s up to but not including 2 mm<sup>2</sup>/s will be classified as **Condensates**.

**LIGHT CRUDE PETROLEUM (LIGHT)** - A commodity having a density from 800 kg/m<sup>3</sup> up to but not including 876 kg/m<sup>3</sup> and a viscosity from 2 mm<sup>2</sup>/s up to but not including 20 mm<sup>2</sup>/s will be classified as **Light Crude Petroleum**.

**MEDIUM CRUDE PETROLEUM (MEDIUM)** - A commodity having a density from 876 kg/m<sup>3</sup> up to but not including 904 kg/m<sup>3</sup> and a viscosity from 20 mm<sup>2</sup>/s up to but not including 100 mm<sup>2</sup>/s will be classified as **Medium Crude Petroleum**.

**HEAVY CRUDE PETROLEUM (HEAVY)** - A commodity having a density from 904 kg/m<sup>3</sup> to 940 kg/m<sup>3</sup> inclusive and a viscosity from 100 up to and including 350 mm<sup>2</sup>/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 and the Interim Line 3 Replacement Surcharge. For further information on the applicable tankage charges in Canada and the United States, refer to Enbridge Pipelines Inc.'s CER Tariff No. 458, Enbridge Pipelines Inc.'s CER RT Tariff No. 19-2, and Enbridge Energy, Limited Partnership's FERC Tariff No. 43.34.0. For the applicable Oil Allowance charges in Canada and the United States, refer to Enbridge Pipelines Inc.'s CER Tariff No. 458, and Enbridge Energy, Limited Partnership's FERC Tariff No. 41.16.0.

[D] All rates on this page have decreased 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		16.4110	17.2956	18.3274	20.1348
	Superior, Wisconsin	18.4927	19.3053	20.1903	21.4298	23.5976
	Lockport, Illinois		26.6416	27.5269	29.2745	32.3364
	Mokena, Illinois		26.6416	27.5269	29.2745	32.3364
	Flanagan, Illinois		26.1867	27.0720	28.8196	31.8815
	Griffith, Indiana		26.6416	27.5269	29.2745	32.3364
	Stockbridge, Michigan		29.1274	30.0130	31.9477	35.3377
	Rapid River, Michigan	22.5338				
	Marysville, Michigan		29.1274	30.0130	31.9477	35.3377
	Corunna or Sarnia Terminal, Ontario	27.8811	29.5006	30.3948	32.3397	35.7408
	Nanticoke, Ontario		31.8941	32.9796	35.1154	38.8513
	West Seneca, New York		32.2649	33.3722	35.5567	39.3793
Hardisty Terminal, Alberta	Clearbrook, Minnesota			13.9895	14.8969	16.4868
	Superior, Wisconsin			16.8841	17.9992	19.9496
	Lockport, Illinois			24.2210	25.8442	28.6883
	Mokena, Illinois			24.2210	25.8442	28.6883
	Flanagan, Illinois			23.7661	25.3893	28.2334
	Griffith, Indiana			24.2210	25.8442	28.6883
	Stockbridge, Michigan			26.7070	28.5174	31.6898
	Rapid River, Michigan					
	Marysville, Michigan			26.7070	28.5174	31.6898
	Corunna or Sarnia Terminal, Ontario			27.0889	28.9093	32.0931
	Nanticoke, Ontario			29.6734	31.6850	35.2032
	West Seneca, New York			30.0664	32.1266	35.7315

[D] All rates on this page have decreased 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			12.2985		14.4518
	Superior, Wisconsin	13.8070		15.1931		17.9145
	Lockport, Illinois			22.5298		26.6533
	Mokena, Illinois			22.5298		26.6533
	Flanagan, Illinois			22.0749		26.1984
	Griffith, Indiana			22.5298		26.6533
	Stockbridge, Michigan			25.0159		29.6547
	Rapid River, Michigan	17.8482				
	Marysville, Michigan			25.0159		29.6547
	Corunna or Sarnia Terminal, Ontario	23.1956		25.3976		30.0578
	Nanticoke, Ontario			27.9823		33.1681
	West Seneca, New York			28.3751		33.6963
Regina Terminal, Saskatchewan	Clearbrook, Minnesota			8.9068		10.3700
	Superior, Wisconsin			11.8012		13.8327
	Lockport, Illinois			19.1380		22.5716
	Mokena, Illinois			19.1380		22.5716
	Flanagan, Illinois			18.6831		22.1167
	Griffith, Indiana			19.1380		22.5716
	Stockbridge, Michigan			21.6242		25.5732
	Rapid River, Michigan					
	Marysville, Michigan			21.6242		25.5732
	Corunna or Sarnia Terminal, Ontario			22.0057		25.9762
	Nanticoke, Ontario			24.5907		29.0866
	West Seneca, New York			24.9833		29.6145
Cromer Terminal, Manitoba	Clearbrook, Minnesota			6.4565	6.8069	7.4217
	Superior, Wisconsin	8.5052		9.3513	9.9093	10.8846
	Lockport, Illinois			16.6881	17.7539	19.6232
	Mokena, Illinois			16.6881	17.7539	19.6232
	Flanagan, Illinois			16.2332	17.2990	19.1683
	Griffith, Indiana			16.6881	17.7539	19.6232
	Stockbridge, Michigan			19.1742	20.4272	22.6247
	Rapid River, Michigan	12.5466				
	Marysville, Michigan			19.1742	20.4272	22.6247
	Corunna or Sarnia Terminal, Ontario	17.8937		19.5555	20.8188	23.0277
	Nanticoke, Ontario			22.1404	23.5948	26.1381
	West Seneca, New York			22.5332	24.0362	26.6661

### 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) **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.

### 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 1/10<sup>th</sup> 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

[D] – Decrease

Enbridge Pipelines Inc. and Enbridge Energy, Limited Partnership  
International Joint Transportation Rates  
Worksheet Supporting CER Tariff No. 460 and FERC No. 45.21.0  
Effective: January 1, 2020

JOINT TRANSPORTATION RATES IN US DOLLARS PER CUBIC METER											
Natural Gas Liquids											
NGL Toll (\$/m3)											
FROM	TO	Transmission & Terminalling from CER No. 459 FERC No. 45.20.0	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. 460 & FERC No. 45.21.0
		(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	0.0190	0.2400	1.6245	-	-	-	0.9491	(0.0019)	18.4927
	Rapid River, Michigan	18.7611	0.0222	0.2400	1.6245	0.1950	0.0650	0.4549	1.1730	(0.0019)	22.5338
	Corunna or Sarnia Terminal, Ontario	23.7656	0.0269	0.2448	1.6245	0.1950	0.0650	0.4549	1.5063	(0.0019)	27.8811
Kerrobert, Saskatchewan	Superior, Wisconsin	12.8602	0.0147	0.1730	-	-	-	-	0.7605	(0.0014)	13.8070
	Rapid River, Michigan	15.9594	0.0179	0.1730	-	0.1950	0.0650	0.4549	0.9844	(0.0014)	17.8482
	Corunna or Sarnia Terminal, Ontario	20.9639	0.0227	0.1778	-	0.1950	0.0650	0.4549	1.3177	(0.0014)	23.1956
Cromer, Manitoba	Superior, Wisconsin	8.0073	0.0074	0.0571	-	-	-	-	0.4338	(0.0004)	8.5052
	Rapid River, Michigan	11.1066	0.0106	0.0571	-	0.1950	0.0650	0.4549	0.6578	(0.0004)	12.5466
	Corunna or Sarnia Terminal, Ontario	16.1112	0.0153	0.0618	-	0.1950	0.0650	0.4549	0.9910	(0.0005)	17.8937

JOINT TRANSPORTATION RATES IN US DOLLARS PER CUBIC METER											
Condensate											
CND Toll (\$/m3)											
FROM	TO	Transmission & Terminalling from CER No. 459 FERC No. 45.20.0	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. 460 & FERC No. 45.21.0
		(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	0.0171	0.2400	1.6245	-	-	-	0.7856	(0.0019)	16.4110
	Superior, Wisconsin	16.4741	0.0195	0.2400	1.6245	-	-	-	0.9491	(0.0019)	19.3053
	Lockport, Illinois	22.6869	0.0252	0.2400	1.6245	0.1950	0.0650	0.4549	1.3520	(0.0019)	26.6416
	Mokena, Illinois	22.6869	0.0252	0.2400	1.6245	0.1950	0.0650	0.4549	1.3520	(0.0019)	26.6416
	Flanagan, Illinois	22.6869	0.0252	0.2400	1.6245	0.1950	0.0650	-	1.3520	(0.0019)	26.1867
	Griffith, Indiana	22.6869	0.0252	0.2400	1.6245	0.1950	0.0650	0.4549	1.3520	(0.0019)	26.6416
	Stockbridge, Michigan	25.0227	0.0274	0.2400	1.6245	0.1950	0.0650	0.4549	1.4998	(0.0019)	29.1274
	Marysville, Michigan	25.0227	0.0274	0.2400	1.6245	0.1950	0.0650	0.4549	1.4998	(0.0019)	29.1274
	Corunna or Sarnia Terminal, Ontario	25.3845	0.0275	0.2448	1.6245	0.1950	0.0650	0.4549	1.5063	(0.0019)	29.5006
	Nanticoke, Ontario	27.5793	0.0308	0.2961	1.6245	0.1950	0.0650	0.4549	1.6508	(0.0023)	31.8941
West Seneca, New York	27.9078	0.0315	0.2995	1.6245	0.1950	0.0650	0.4549	1.6891	(0.0024)	32.2649	



JOINT TRANSPORTATION RATES IN US DOLLARS PER CUBIC METER											
Light Crude Petroleum											
LGT Toll (\$/m3)											
FROM	TO	Transmission & Terminalling from CER No. 459 FERC No. 45.20.0	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. 460 & FERC No. 45.21.0
		(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	0.0185	0.2400	1.6245	-	-	-	0.7856	(0.0019)	17.2956
	Superior, Wisconsin	17.3575	0.0211	0.2400	1.6245	-	-	-	0.9491	(0.0019)	20.1903
	Lockport, Illinois	23.5700	0.0274	0.2400	1.6245	0.1950	0.0650	0.4549	1.3520	(0.0019)	27.5269
	Mokena, Illinois	23.5700	0.0274	0.2400	1.6245	0.1950	0.0650	0.4549	1.3520	(0.0019)	27.5269
	Flanagan, Illinois	23.5700	0.0274	0.2400	1.6245	0.1950	0.0650	-	1.3520	(0.0019)	27.0720
	Griffith, Indiana	23.5700	0.0274	0.2400	1.6245	0.1950	0.0650	0.4549	1.3520	(0.0019)	27.5269
	Stockbridge, Michigan	25.9060	0.0297	0.2400	1.6245	0.1950	0.0650	0.4549	1.4998	(0.0019)	30.0130
	Marysville, Michigan	25.9060	0.0297	0.2400	1.6245	0.1950	0.0650	0.4549	1.4998	(0.0019)	30.0130
	Corunna or Sarnia Terminal, Ontario	26.2763	0.0299	0.2448	1.6245	0.1950	0.0650	0.4549	1.5063	(0.0019)	30.3948
	Nanticoke, Ontario	28.6621	0.0335	0.2961	1.6245	0.1950	0.0650	0.4549	1.6508	(0.0023)	32.9796
West Seneca, New York	29.0124	0.0342	0.2995	1.6245	0.1950	0.0650	0.4549	1.6891	(0.0024)	33.3722	
Hardisty, Alberta	Clearbrook, Minnesota	13.0768	0.0161	0.2066	-	-	-	-	0.6916	(0.0016)	13.9895
	Superior, Wisconsin	15.8054	0.0187	0.2066	-	-	-	-	0.8550	(0.0016)	16.8841
	Lockport, Illinois	22.0181	0.0250	0.2066	-	0.1950	0.0650	0.4549	1.2580	(0.0016)	24.2210
	Mokena, Illinois	22.0181	0.0250	0.2066	-	0.1950	0.0650	0.4549	1.2580	(0.0016)	24.2210
	Flanagan, Illinois	22.0181	0.0250	0.2066	-	0.1950	0.0650	-	1.2580	(0.0016)	23.7661
	Griffith, Indiana	22.0181	0.0250	0.2066	-	0.1950	0.0650	0.4549	1.2580	(0.0016)	24.2210
	Stockbridge, Michigan	24.3540	0.0273	0.2066	-	0.1950	0.0650	0.4549	1.4058	(0.0016)	26.7070
	Marysville, Michigan	24.3540	0.0273	0.2066	-	0.1950	0.0650	0.4549	1.4058	(0.0016)	26.7070
	Corunna or Sarnia Terminal, Ontario	24.7245	0.0275	0.2114	-	0.1950	0.0650	0.4549	1.4123	(0.0017)	27.0889
	Nanticoke, Ontario	27.1099	0.0312	0.2627	-	0.1950	0.0650	0.4549	1.5568	(0.0021)	29.6734
West Seneca, New York	27.4605	0.0319	0.2661	-	0.1950	0.0650	0.4549	1.5951	(0.0021)	30.0664	

JOINT TRANSPORTATION RATES IN US DOLLARS PER CUBIC METER											
Light Crude Petroleum											
LGT Toll (\$/m3)											
FROM	TO	Transmission & Terminalling from CER No. 459 FERC No. 45.20.0	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. 460 & FERC No. 45.21.0
		(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	0.0138	0.1730	-	-	-	-	0.5971	(0.0014)	12.2985
	Superior, Wisconsin	14.2446	0.0164	0.1730	-	-	-	-	0.7605	(0.0014)	15.1931
	Lockport, Illinois	20.4572	0.0227	0.1730	-	0.1950	0.0650	0.4549	1.1634	(0.0014)	22.5298
	Mokena, Illinois	20.4572	0.0227	0.1730	-	0.1950	0.0650	0.4549	1.1634	(0.0014)	22.5298
	Flanagan, Illinois	20.4572	0.0227	0.1730	-	0.1950	0.0650	-	1.1634	(0.0014)	22.0749
	Griffith, Indiana	20.4572	0.0227	0.1730	-	0.1950	0.0650	0.4549	1.1634	(0.0014)	22.5298
	Stockbridge, Michigan	22.7931	0.0250	0.1730	-	0.1950	0.0650	0.4549	1.3113	(0.0014)	25.0159
	Marysville, Michigan	22.7931	0.0250	0.1730	-	0.1950	0.0650	0.4549	1.3113	(0.0014)	25.0159
	Corunna or Samia Terminal, Ontario	23.1634	0.0252	0.1778	-	0.1950	0.0650	0.4549	1.3177	(0.0014)	25.3976
	Nanticoke, Ontario	25.5491	0.0288	0.2291	-	0.1950	0.0650	0.4549	1.4622	(0.0018)	27.9823
West Seneca, New York	25.8995	0.0295	0.2325	-	0.1950	0.0650	0.4549	1.5005	(0.0018)	28.3751	
Regina, Saskatchewan	Clearbrook, Minnesota	8.3854	0.0091	0.1057	-	-	-	-	0.4074	(0.0008)	8.9068
	Superior, Wisconsin	11.1138	0.0117	0.1057	-	-	-	-	0.5708	(0.0008)	11.8012
	Lockport, Illinois	17.3265	0.0180	0.1057	-	0.1950	0.0650	0.4549	0.9737	(0.0008)	19.1380
	Mokena, Illinois	17.3265	0.0180	0.1057	-	0.1950	0.0650	0.4549	0.9737	(0.0008)	19.1380
	Flanagan, Illinois	17.3265	0.0180	0.1057	-	0.1950	0.0650	-	0.9737	(0.0008)	18.6831
	Griffith, Indiana	17.3265	0.0180	0.1057	-	0.1950	0.0650	0.4549	0.9737	(0.0008)	19.1380
	Stockbridge, Michigan	19.6625	0.0203	0.1057	-	0.1950	0.0650	0.4549	1.1216	(0.0008)	21.6242
	Marysville, Michigan	19.6625	0.0203	0.1057	-	0.1950	0.0650	0.4549	1.1216	(0.0008)	21.6242
	Corunna or Samia Terminal, Ontario	20.0327	0.0204	0.1105	-	0.1950	0.0650	0.4549	1.1280	(0.0008)	22.0057
	Nanticoke, Ontario	22.4187	0.0240	0.1618	-	0.1950	0.0650	0.4549	1.2726	(0.0013)	24.5907
West Seneca, New York	22.7689	0.0248	0.1652	-	0.1950	0.0650	0.4549	1.3108	(0.0013)	24.9833	
Cromer, Manitoba	Clearbrook, Minnesota	6.1237	0.0057	0.0571	-	-	-	-	0.2704	(0.0004)	6.4565
	Superior, Wisconsin	8.8525	0.0083	0.0571	-	-	-	-	0.4338	(0.0004)	9.3513
	Lockport, Illinois	15.0652	0.0146	0.0571	-	0.1950	0.0650	0.4549	0.8367	(0.0004)	16.6881
	Mokena, Illinois	15.0652	0.0146	0.0571	-	0.1950	0.0650	0.4549	0.8367	(0.0004)	16.6881
	Flanagan, Illinois	15.0652	0.0146	0.0571	-	0.1950	0.0650	-	0.8367	(0.0004)	16.2332
	Griffith, Indiana	15.0652	0.0146	0.0571	-	0.1950	0.0650	0.4549	0.8367	(0.0004)	16.6881
	Stockbridge, Michigan	17.4011	0.0169	0.0571	-	0.1950	0.0650	0.4549	0.9846	(0.0004)	19.1742
	Marysville, Michigan	17.4011	0.0169	0.0571	-	0.1950	0.0650	0.4549	0.9846	(0.0004)	19.1742
	Corunna or Samia Terminal, Ontario	17.7713	0.0170	0.0618	-	0.1950	0.0650	0.4549	0.9910	(0.0005)	19.5555
	Nanticoke, Ontario	20.1570	0.0206	0.1132	-	0.1950	0.0650	0.4549	1.1356	(0.0009)	22.1404
West Seneca, New York	20.5075	0.0213	0.1166	-	0.1950	0.0650	0.4549	1.1738	(0.0009)	22.5332	

JOINT TRANSPORTATION RATES IN US DOLLARS PER CUBIC METER											
Medium Crude Petroleum											
MED Toll (\$/m3)											
FROM	TO	Transmission & Terminalling from CER No. 459 FERC No. 45.20.0	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. 460 & FERC No. 45.21.0
		(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	0.0200	0.2400	1.6245	-	-	-	0.7856	(0.0019)	18.3274
	Superior, Wisconsin	18.5954	0.0227	0.2400	1.6245	-	-	-	0.9491	(0.0019)	21.4298
	Lockport, Illinois	25.3155	0.0295	0.2400	1.6245	0.1950	0.0650	0.4549	1.3520	(0.0019)	29.2745
	Mokena, Illinois	25.3155	0.0295	0.2400	1.6245	0.1950	0.0650	0.4549	1.3520	(0.0019)	29.2745
	Flanagan, Illinois	25.3155	0.0295	0.2400	1.6245	0.1950	0.0650	-	1.3520	(0.0019)	28.8196
	Griffith, Indiana	25.3155	0.0295	0.2400	1.6245	0.1950	0.0650	0.4549	1.3520	(0.0019)	29.2745
	Stockbridge, Michigan	27.8383	0.0321	0.2400	1.6245	0.1950	0.0650	0.4549	1.4998	(0.0019)	31.9477
	Marysville, Michigan	27.8383	0.0321	0.2400	1.6245	0.1950	0.0650	0.4549	1.4998	(0.0019)	31.9477
	Corunna or Samia Terminal, Ontario	28.2188	0.0323	0.2448	1.6245	0.1950	0.0650	0.4549	1.5063	(0.0019)	32.3397
	Nanticoke, Ontario	30.7952	0.0362	0.2961	1.6245	0.1950	0.0650	0.4549	1.6508	(0.0023)	35.1154
West Seneca, New York	31.1942	0.0369	0.2995	1.6245	0.1950	0.0650	0.4549	1.6891	(0.0024)	35.5567	
Hardisty, Alberta	Clearbrook, Minnesota	13.9828	0.0175	0.2066	-	-	-	-	0.6916	(0.0016)	14.8969
	Superior, Wisconsin	16.9190	0.0202	0.2066	-	-	-	-	0.8550	(0.0016)	17.9992
	Lockport, Illinois	23.6393	0.0270	0.2066	-	0.1950	0.0650	0.4549	1.2580	(0.0016)	25.8442
	Mokena, Illinois	23.6393	0.0270	0.2066	-	0.1950	0.0650	0.4549	1.2580	(0.0016)	25.8442
	Flanagan, Illinois	23.6393	0.0270	0.2066	-	0.1950	0.0650	-	1.2580	(0.0016)	25.3893
	Griffith, Indiana	23.6393	0.0270	0.2066	-	0.1950	0.0650	0.4549	1.2580	(0.0016)	25.8442
	Stockbridge, Michigan	26.1621	0.0296	0.2066	-	0.1950	0.0650	0.4549	1.4058	(0.0016)	28.5174
	Marysville, Michigan	26.1621	0.0296	0.2066	-	0.1950	0.0650	0.4549	1.4058	(0.0016)	28.5174
	Corunna or Samia Terminal, Ontario	26.5426	0.0298	0.2114	-	0.1950	0.0650	0.4549	1.4123	(0.0017)	28.9093
	Nanticoke, Ontario	29.1190	0.0337	0.2627	-	0.1950	0.0650	0.4549	1.5568	(0.0021)	31.6850
West Seneca, New York	29.5182	0.0344	0.2661	-	0.1950	0.0650	0.4549	1.5951	(0.0021)	32.1266	
Cromer, Manitoba	Clearbrook, Minnesota	6.4737	0.0061	0.0571	-	-	-	-	0.2704	(0.0004)	6.8069
	Superior, Wisconsin	9.4100	0.0088	0.0571	-	-	-	-	0.4338	(0.0004)	9.9093
	Lockport, Illinois	16.1300	0.0156	0.0571	-	0.1950	0.0650	0.4549	0.8367	(0.0004)	17.7539
	Mokena, Illinois	16.1300	0.0156	0.0571	-	0.1950	0.0650	0.4549	0.8367	(0.0004)	17.7539
	Flanagan, Illinois	16.1300	0.0156	0.0571	-	0.1950	0.0650	-	0.8367	(0.0004)	17.2990
	Griffith, Indiana	16.1300	0.0156	0.0571	-	0.1950	0.0650	0.4549	0.8367	(0.0004)	17.7539
	Stockbridge, Michigan	18.6528	0.0182	0.0571	-	0.1950	0.0650	0.4549	0.9846	(0.0004)	20.4272
	Marysville, Michigan	18.6528	0.0182	0.0571	-	0.1950	0.0650	0.4549	0.9846	(0.0004)	20.4272
	Corunna or Samia Terminal, Ontario	19.0332	0.0184	0.0618	-	0.1950	0.0650	0.4549	0.9910	(0.0005)	20.8188
	Nanticoke, Ontario	21.6097	0.0223	0.1132	-	0.1950	0.0650	0.4549	1.1356	(0.0009)	23.5948
West Seneca, New York	22.0088	0.0230	0.1166	-	0.1950	0.0650	0.4549	1.1738	(0.0009)	24.0362	

JOINT TRANSPORTATION RATES IN US DOLLARS PER CUBIC METER											
Heavy Crude Petroleum											
HVY Toll (\$/m3)											
FROM	TO	Transmission & Terminalling from CER No. 459 FERC No. 45.20.0	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. 460 & FERC No. 45.21.0
		(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	0.0227	0.2400	1.6245	-	-	-	0.7856	(0.0019)	20.1348
	Superior, Wisconsin	20.7602	0.0257	0.2400	1.6245	-	-	-	0.9491	(0.0019)	23.5976
	Lockport, Illinois	28.3735	0.0334	0.2400	1.6245	0.1950	0.0650	0.4549	1.3520	(0.0019)	32.3364
	Mokena, Illinois	28.3735	0.0334	0.2400	1.6245	0.1950	0.0650	0.4549	1.3520	(0.0019)	32.3364
	Flanagan, Illinois	28.3735	0.0334	0.2400	1.6245	0.1950	0.0650	-	1.3520	(0.0019)	31.8815
	Griffith, Indiana	28.3735	0.0334	0.2400	1.6245	0.1950	0.0650	0.4549	1.3520	(0.0019)	32.3364
	Stockbridge, Michigan	31.2241	0.0363	0.2400	1.6245	0.1950	0.0650	0.4549	1.4998	(0.0019)	35.3377
	Marysville, Michigan	31.2241	0.0363	0.2400	1.6245	0.1950	0.0650	0.4549	1.4998	(0.0019)	35.3377
	Corunna or Sarnia Terminal, Ontario	31.6157	0.0365	0.2448	1.6245	0.1950	0.0650	0.4549	1.5063	(0.0019)	35.7408
	Nanticoke, Ontario	34.5264	0.0409	0.2961	1.6245	0.1950	0.0650	0.4549	1.6508	(0.0023)	38.8513
West Seneca, New York	35.0119	0.0418	0.2995	1.6245	0.1950	0.0650	0.4549	1.6891	(0.0024)	39.3793	
Hardisty, Alberta	Clearbrook, Minnesota	15.5703	0.0199	0.2066	-	-	-	-	0.6916	(0.0016)	16.4868
	Superior, Wisconsin	18.8667	0.0229	0.2066	-	-	-	-	0.8550	(0.0016)	19.9496
	Lockport, Illinois	26.4798	0.0306	0.2066	-	0.1950	0.0650	0.4549	1.2580	(0.0016)	28.6883
	Mokena, Illinois	26.4798	0.0306	0.2066	-	0.1950	0.0650	0.4549	1.2580	(0.0016)	28.6883
	Flanagan, Illinois	26.4798	0.0306	0.2066	-	0.1950	0.0650	-	1.2580	(0.0016)	28.2334
	Griffith, Indiana	26.4798	0.0306	0.2066	-	0.1950	0.0650	0.4549	1.2580	(0.0016)	28.6883
	Stockbridge, Michigan	29.3306	0.0335	0.2066	-	0.1950	0.0650	0.4549	1.4058	(0.0016)	31.6898
	Marysville, Michigan	29.3306	0.0335	0.2066	-	0.1950	0.0650	0.4549	1.4058	(0.0016)	31.6898
	Corunna or Sarnia Terminal, Ontario	29.7225	0.0337	0.2114	-	0.1950	0.0650	0.4549	1.4123	(0.0017)	32.0931
	Nanticoke, Ontario	32.6329	0.0380	0.2627	-	0.1950	0.0650	0.4549	1.5568	(0.0021)	35.2032
West Seneca, New York	33.1185	0.0390	0.2661	-	0.1950	0.0650	0.4549	1.5951	(0.0021)	35.7315	

JOINT TRANSPORTATION RATES IN US DOLLARS PER CUBIC METER											
Heavy Crude Petroleum											
HVY Toll (\$/m3)											
FROM	TO	Transmission & Terminalling from CER No. 459 FERC No. 45.20.0	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. 460 & FERC No. 45.21.0
		(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	0.0170	0.1730	-	-	-	-	0.5971	(0.0014)	14.4518
	Superior, Wisconsin	16.9624	0.0200	0.1730	-	-	-	-	0.7605	(0.0014)	17.9145
	Lockport, Illinois	24.5757	0.0277	0.1730	-	0.1950	0.0650	0.4549	1.1634	(0.0014)	26.6533
	Mokena, Illinois	24.5757	0.0277	0.1730	-	0.1950	0.0650	0.4549	1.1634	(0.0014)	26.6533
	Flanagan, Illinois	24.5757	0.0277	0.1730	-	0.1950	0.0650	-	1.1634	(0.0014)	26.1984
	Griffith, Indiana	24.5757	0.0277	0.1730	-	0.1950	0.0650	0.4549	1.1634	(0.0014)	26.6533
	Stockbridge, Michigan	27.4263	0.0306	0.1730	-	0.1950	0.0650	0.4549	1.3113	(0.0014)	29.6547
	Marysville, Michigan	27.4263	0.0306	0.1730	-	0.1950	0.0650	0.4549	1.3113	(0.0014)	29.6547
	Corunna or Samia Terminal, Ontario	27.8180	0.0308	0.1778	-	0.1950	0.0650	0.4549	1.3177	(0.0014)	30.0578
	Nanticoke, Ontario	30.7286	0.0351	0.2291	-	0.1950	0.0650	0.4549	1.4622	(0.0018)	33.1681
West Seneca, New York	31.2141	0.0361	0.2325	-	0.1950	0.0650	0.4549	1.5005	(0.0018)	33.6963	
Regina, Saskatchewan	Clearbrook, Minnesota	9.8466	0.0111	0.1057	-	-	-	-	0.4074	(0.0008)	10.3700
	Superior, Wisconsin	13.1429	0.0141	0.1057	-	-	-	-	0.5708	(0.0008)	13.8327
	Lockport, Illinois	20.7563	0.0218	0.1057	-	0.1950	0.0650	0.4549	0.9737	(0.0008)	22.5716
	Mokena, Illinois	20.7563	0.0218	0.1057	-	0.1950	0.0650	0.4549	0.9737	(0.0008)	22.5716
	Flanagan, Illinois	20.7563	0.0218	0.1057	-	0.1950	0.0650	-	0.9737	(0.0008)	22.1167
	Griffith, Indiana	20.7563	0.0218	0.1057	-	0.1950	0.0650	0.4549	0.9737	(0.0008)	22.5716
	Stockbridge, Michigan	23.6071	0.0247	0.1057	-	0.1950	0.0650	0.4549	1.1216	(0.0008)	25.5732
	Marysville, Michigan	23.6071	0.0247	0.1057	-	0.1950	0.0650	0.4549	1.1216	(0.0008)	25.5732
	Corunna or Samia Terminal, Ontario	23.9987	0.0249	0.1105	-	0.1950	0.0650	0.4549	1.1280	(0.0008)	25.9762
	Nanticoke, Ontario	26.9092	0.0294	0.1618	-	0.1950	0.0650	0.4549	1.2726	(0.0013)	29.0866
West Seneca, New York	27.3947	0.0302	0.1652	-	0.1950	0.0650	0.4549	1.3108	(0.0013)	29.6145	
Cromer, Manitoba	Clearbrook, Minnesota	7.0876	0.0070	0.0571	-	-	-	-	0.2704	(0.0004)	7.4217
	Superior, Wisconsin	10.3841	0.0100	0.0571	-	-	-	-	0.4338	(0.0004)	10.8846
	Lockport, Illinois	17.9972	0.0177	0.0571	-	0.1950	0.0650	0.4549	0.8367	(0.0004)	19.6232
	Mokena, Illinois	17.9972	0.0177	0.0571	-	0.1950	0.0650	0.4549	0.8367	(0.0004)	19.6232
	Flanagan, Illinois	17.9972	0.0177	0.0571	-	0.1950	0.0650	-	0.8367	(0.0004)	19.1683
	Griffith, Indiana	17.9972	0.0177	0.0571	-	0.1950	0.0650	0.4549	0.8367	(0.0004)	19.6232
	Stockbridge, Michigan	20.8479	0.0206	0.0571	-	0.1950	0.0650	0.4549	0.9846	(0.0004)	22.6247
	Marysville, Michigan	20.8479	0.0206	0.0571	-	0.1950	0.0650	0.4549	0.9846	(0.0004)	22.6247
	Corunna or Samia Terminal, Ontario	21.2397	0.0208	0.0618	-	0.1950	0.0650	0.4549	0.9910	(0.0005)	23.0277
	Nanticoke, Ontario	24.1502	0.0251	0.1132	-	0.1950	0.0650	0.4549	1.1356	(0.0009)	26.1381
West Seneca, New York	24.6356	0.0261	0.1166	-	0.1950	0.0650	0.4549	1.1738	(0.0009)	26.6661	