



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, [N] AND MANITOBA,

TO

POINTS IN THE PROVINCE OF ONTARIO AND POINTS IN THE STATES OF ILLINOIS, INDIANA,
MICHIGAN, MINNESOTA, 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 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.

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.

~~[C] Issued on three (3) days' notice under authority of 18 CFR 341.14. This tariff publication is conditionally accepted subject to refund pending a 30-day review period.~~

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

ISSUED: May 28, 2020

EFFECTIVE: July 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/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 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. **[W] 470 466**, Enbridge Pipelines Inc.'s CER RT Tariff No. **[W] 20-1**, and Enbridge Energy, Limited Partnership's FERC Tariff No. **[W] 43.38.0 43.37.0**. For the applicable Oil Allowance charges in Canada and the United States, refer to Enbridge Pipelines Inc.'s CER Tariff No. **[W] 470 466**, 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		16.9132	17.8351	18.9061	20.7824
	Superior, Wisconsin	19.0931	19.9252	20.8543	22.1429	24.3969
	Lockport, Illinois		27.5548	28.5008	30.3217	33.5118
	Mokena, Illinois		27.5548	28.5008	30.3217	33.5118
	Flanagan, Illinois		27.0933	28.0393	29.8602	33.0503
	Griffith, Indiana		27.5548	28.5008	30.3217	33.5118
	Stockbridge, Michigan		30.1451	31.0976	33.1144	36.6483
	Rapid River, Michigan	23.2941				
	Marysville, Michigan		30.1451	31.0976	33.1144	36.6483
	Corunna or Sarnia Terminal, Ontario	28.8692	30.5257	31.4870	33.5144	37.0599
	Westover, Ontario		32.3187	33.4239	35.5947	39.3917
	Nanticoke, Ontario		32.9993	34.1589	36.3842	40.2766
Hardisty Terminal, Alberta	Clearbrook, Minnesota			14.4486	15.3906	17.0415
	Superior, Wisconsin			17.4677	18.6273	20.6559
	Lockport, Illinois			25.1145	26.8064	29.7708
	Mokena, Illinois			25.1145	26.8064	29.7708
	Flanagan, Illinois			24.6530	26.3449	29.3093
	Griffith, Indiana			25.1145	26.8064	29.7708
	Stockbridge, Michigan			27.7112	29.5991	32.9074
	Rapid River, Michigan					
	Marysville, Michigan			27.7112	29.5991	32.9074
	Corunna or Sarnia Terminal, Ontario			28.1009	29.9992	33.3193
	Westover, Ontario			30.0376	32.0795	35.6509
	Nanticoke, Ontario			30.7724	32.8690	36.5358

[I] 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			12.7008		14.9370
	Superior, Wisconsin	14.2817		15.7199		18.5514
	Lockport, Illinois			23.3665		27.6663
	Mokena, Illinois			23.3665		27.6663
	Flanagan, Illinois			22.9050		27.2048
	Griffith, Indiana			23.3665		27.6663
	Stockbridge, Michigan			25.9633		30.8029
	Rapid River, Michigan	18.4828				
	Marysville, Michigan			25.9633		30.8029
	Corunna or Sarnia Terminal, Ontario	24.0578		26.3526		31.2145
	Westover, Ontario			28.2895		33.5462
Nanticoke, Ontario			29.0244		34.4311	
Regina Terminal, Saskatchewan	Clearbrook, Minnesota			9.1948		10.7159
	Superior, Wisconsin			12.2137		14.3303
	Lockport, Illinois			19.8604		23.4453
	Mokena, Illinois			19.8604		23.4453
	Flanagan, Illinois			19.3989		22.9838
	Griffith, Indiana			19.8604		23.4453
	Stockbridge, Michigan			22.4572		26.5821
	Rapid River, Michigan					
	Marysville, Michigan			22.4572		26.5821
	Corunna or Sarnia Terminal, Ontario			22.8465		26.9936
	Westover, Ontario			24.7834		29.3254
Nanticoke, Ontario			25.5186		30.2102	
Cromer Terminal, Manitoba	Clearbrook, Minnesota			6.6619	7.0266	7.6666
	Superior, Wisconsin	8.8028		9.6812	10.2634	11.2811
	Lockport, Illinois			17.3279	18.4421	20.3959
	Mokena, Illinois			17.3279	18.4421	20.3959
	Flanagan, Illinois			16.8664	17.9806	19.9344
	Griffith, Indiana			17.3279	18.4421	20.3959
	Stockbridge, Michigan			19.9247	21.2349	23.5325
	Rapid River, Michigan	13.0041				
	Marysville, Michigan			19.9247	21.2349	23.5325
	Corunna or Sarnia Terminal, Ontario	18.5790		20.3139	21.6347	23.9443
	Westover, Ontario			22.2507	23.7152	26.2761
Nanticoke, Ontario			22.9859	24.5047	27.1610	

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, Minnesota and Wisconsin.

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; **[N] Flanagan**, 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 Westover, Ontario or Nanticoke, Ontario

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. 471 and FERC No. 45.23.0
Effective: July 1, 2020

JOINT TRANSPORTATION RATES IN US DOLLARS PER CUBIC METER												
Natural Gas Liquids												
FROM	TO	Transmission & Terminalling from CER No. 466 FERC No. 45.22.0	Adjusted Transmission & Terminalling ¹	CTS Section 20.1 (i) Surcharge	Abandonment Surcharge	Edmonton Transportation Surcharge ¹	Phase 1 Southern Access Expansion Surcharge ¹	Interim Lakehead Operation Tank Surcharge ¹	Line 78 (Line 62) Surcharge ¹	Interim Line 3 Replacement Surcharge	Non-Performance Penalty Credit	Total CER No. 471 & FERC No. 45.23.0
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)=(B)+(C)+(D)+(E)+(F)+(G)+(H)+(I)+(J)
Edmonton, Alberta	Superior, Wisconsin	15.6620	15.8904	0.3688	0.2400	1.6482	-	-	-	0.9491	(0.0034)	19.0931
	Rapid River, Michigan	18.7611	19.0347	0.4764	0.2400	1.6482	0.1978	0.0659	0.4615	1.1730	(0.0034)	23.2941
	Corunna or Sarnia Terminal, Ontario	23.7656	24.1122	0.6359	0.2448	1.6482	0.1978	0.0659	0.4615	1.5063	(0.0034)	28.8692
Kerrobert, Saskatchewan	Superior, Wisconsin	12.8602	13.0477	0.3029	0.1730	-	-	-	-	0.7605	(0.0024)	14.2817
	Rapid River, Michigan	15.9594	16.1921	0.4105	0.1730	-	0.1978	0.0659	0.4615	0.9844	(0.0024)	18.4828
	Corunna or Sarnia Terminal, Ontario	20.9639	21.2696	0.5700	0.1778	-	0.1978	0.0659	0.4615	1.3177	(0.0025)	24.0578
Cromer, Manitoba	Superior, Wisconsin	8.0073	8.1241	0.1886	0.0571	-	-	-	-	0.4338	(0.0008)	8.8028
	Rapid River, Michigan	11.1066	11.2686	0.2962	0.0571	-	0.1978	0.0659	0.4615	0.6578	(0.0008)	13.0041
	Corunna or Sarnia Terminal, Ontario	16.1112	16.3462	0.4556	0.0618	-	0.1978	0.0659	0.4615	0.9910	(0.0008)	18.5790

¹Adjusted by 75% of GDPP Index (as defined in CTS Section 3.1 (hh)) of 1.9444%

JOINT TRANSPORTATION RATES IN US DOLLARS PER CUBIC METER												
Condensate												
FROM	TO	Transmission & Terminalling from CER No. 466 FERC No. 45.22.0	Adjusted Transmission & Terminalling ¹	CTS Section 20.1 (i) Surcharge	Abandonment Surcharge	Edmonton Transportation Surcharge ¹	Phase 1 Southern Access Expansion Surcharge ¹	Interim Lakehead Operation Tank Surcharge ¹	Line 78 (Line 62) Surcharge ¹	Interim Line 3 Replacement Surcharge	Non-Performance Penalty Credit	Total CER No. 471 & FERC No. 45.23.0
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)=(B)+(C)+(D)+(E)+(F)+(G)+(H)+(I)+(J)
Edmonton, Alberta	Clearbrook, Minnesota	13.7457	13.9462	0.2966	0.2400	1.6482	-	-	-	0.7856	(0.0034)	16.9132
	Superior, Wisconsin	16.4741	16.7143	0.3770	0.2400	1.6482	-	-	-	0.9491	(0.0034)	19.9252
	Lockport, Illinois	22.6869	23.0178	0.5750	0.2400	1.6482	0.1978	0.0659	0.4615	1.3520	(0.0034)	27.5548
	Mokena, Illinois	22.6869	23.0178	0.5750	0.2400	1.6482	0.1978	0.0659	0.4615	1.3520	(0.0034)	27.5548
	Flanagan, Illinois	22.6869	23.0178	0.5750	0.2400	1.6482	0.1978	0.0659	-	1.3520	(0.0034)	27.0933
	Griffith, Indiana	22.6869	23.0178	0.5750	0.2400	1.6482	0.1978	0.0659	0.4615	1.3520	(0.0034)	27.5548
	Stockbridge, Michigan	25.0227	25.3876	0.6477	0.2400	1.6482	0.1978	0.0659	0.4615	1.4998	(0.0034)	30.1451
	Marysville, Michigan	25.0227	25.3876	0.6477	0.2400	1.6482	0.1978	0.0659	0.4615	1.4998	(0.0034)	30.1451
	Corunna or Sarnia Terminal, Ontario	25.3845	25.7547	0.6499	0.2448	1.6482	0.1978	0.0659	0.4615	1.5063	(0.0034)	30.5257
Westover, Ontario	26.9754	27.3688	0.6874	0.2820	1.6482	0.1978	0.0659	0.4615	1.6111	(0.0040)	32.3187	
Nanticoke, Ontario	27.5793	27.9815	0.7017	0.2961	1.6482	0.1978	0.0659	0.4615	1.6508	(0.0042)	32.9993	

¹Adjusted by 75% of GDPP Index (as defined in CTS Section 3.1 (hh)) of 1.9444%

JOINT TRANSPORTATION RATES IN US DOLLARS PER CUBIC METER												
Light Crude Petroleum												
FROM	TO	Transmission & Terminalling from CER No. 466 FERC No. 45.22.0	Adjusted Transmission & Terminalling ¹	CTS Section 20.1 (i) Surcharge	Abandonment Surcharge	Edmonton Transportation Surcharge ¹	Phase 1 Southern Access Expansion Surcharge ¹	Interim Lakehead Operation Tank Surcharge ¹	Line 78 (Line 62) Surcharge ¹	Interim Line 3 Replacement Surcharge	Non-Performance Penalty Credit	Total CER No. 471 & FERC No. 45.23.0
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)=(B)+(C)+(D)+(E)+(F)+(G)+(H)+(I)+(J)
Edmonton, Alberta	Clearbrook, Minnesota	14.6289	14.8422	0.3225	0.2400	1.6482	-	-	-	0.7856	(0.0034)	17.8351
	Superior, Wisconsin	17.3575	17.6106	0.4098	0.2400	1.6482	-	-	-	0.9491	(0.0034)	20.8543
	Lockport, Illinois	23.5700	23.9137	0.6251	0.2400	1.6482	0.1978	0.0659	0.4615	1.3520	(0.0034)	28.5008
	Mokena, Illinois	23.5700	23.9137	0.6251	0.2400	1.6482	0.1978	0.0659	0.4615	1.3520	(0.0034)	28.5008
	Flanagan, Illinois	23.5700	23.9137	0.6251	0.2400	1.6482	0.1978	0.0659	-	1.3520	(0.0034)	28.0393
	Griffith, Indiana	23.5700	23.9137	0.6251	0.2400	1.6482	0.1978	0.0659	0.4615	1.3520	(0.0034)	28.5008
	Stockbridge, Michigan	25.9060	26.2838	0.7040	0.2400	1.6482	0.1978	0.0659	0.4615	1.4998	(0.0034)	31.0976
	Marysville, Michigan	25.9060	26.2838	0.7040	0.2400	1.6482	0.1978	0.0659	0.4615	1.4998	(0.0034)	31.0976
	Corunna or Sarnia Terminal, Ontario	26.2763	26.6595	0.7064	0.2448	1.6482	0.1978	0.0659	0.4615	1.5063	(0.0034)	31.4870
Westover, Ontario	28.0058	28.4142	0.7472	0.2820	1.6482	0.1978	0.0659	0.4615	1.6111	(0.0040)	33.4239	
Nanticoke, Ontario	28.6621	29.0801	0.7627	0.2961	1.6482	0.1978	0.0659	0.4615	1.6508	(0.0042)	34.1589	
Hardisty, Alberta	Clearbrook, Minnesota	13.0768	13.2675	0.2858	0.2066	-	-	-	-	0.6916	(0.0029)	14.4486
	Superior, Wisconsin	15.8054	16.0359	0.3731	0.2066	-	-	-	-	0.8550	(0.0029)	17.4677
	Lockport, Illinois	22.0181	22.3392	0.5884	0.2066	-	0.1978	0.0659	0.4615	1.2580	(0.0029)	25.1145
	Mokena, Illinois	22.0181	22.3392	0.5884	0.2066	-	0.1978	0.0659	0.4615	1.2580	(0.0029)	25.1145
	Flanagan, Illinois	22.0181	22.3392	0.5884	0.2066	-	0.1978	0.0659	-	1.2580	(0.0029)	24.6530
	Griffith, Indiana	22.0181	22.3392	0.5884	0.2066	-	0.1978	0.0659	0.4615	1.2580	(0.0029)	25.1145
	Stockbridge, Michigan	24.3540	24.7092	0.6673	0.2066	-	0.1978	0.0659	0.4615	1.4058	(0.0029)	27.7112
	Marysville, Michigan	24.3540	24.7092	0.6673	0.2066	-	0.1978	0.0659	0.4615	1.4058	(0.0029)	27.7112
	Corunna or Sarnia Terminal, Ontario	24.7245	25.0851	0.6699	0.2114	-	0.1978	0.0659	0.4615	1.4123	(0.0030)	28.1009
Westover, Ontario	26.4538	26.8396	0.7107	0.2486	-	0.1978	0.0659	0.4615	1.5170	(0.0035)	30.0376	
Nanticoke, Ontario	27.1099	27.5053	0.7261	0.2627	-	0.1978	0.0659	0.4615	1.5568	(0.0037)	30.7724	

¹Adjusted by 75% of GDPP Index (as defined in CTS Section 3.1 (hh)) of 1.9444%

JOINT TRANSPORTATION RATES IN US DOLLARS PER CUBIC METER												
Light Crude Petroleum												
FROM	TO	Transmission & Terminalling from CER No. 466 FERC No. 45.22.0	Adjusted Transmission & Terminalling ¹	CTS Section 20.1 (i) Surcharge	Abandonment Surcharge	Edmonton Transportation Surcharge ¹	Phase 1 Southern Access Expansion Surcharge ¹	Interim Lakehead Operation Tank Surcharge ¹	Line 78 (Line 62) Surcharge ¹	Interim Line 3 Replacement Surcharge	Non-Performance Penalty Credit	Total CER No. 471 & FERC No. 45.23.0
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)=(B)+(C)+(D)+(E)+(F)+(G)+(H)+(I)+(J)
Kerrobert, Saskatchewan	Clearbrook, Minnesota	11.5160	11.6839	0.2492	0.1730	-	-	-	-	0.5971	(0.0024)	12.7008
	Superior, Wisconsin	14.2446	14.4523	0.3365	0.1730	-	-	-	-	0.7605	(0.0024)	15.7199
	Lockport, Illinois	20.4572	20.7555	0.5518	0.1730	-	0.1978	0.0659	0.4615	1.1634	(0.0024)	23.3665
	Mokena, Illinois	20.4572	20.7555	0.5518	0.1730	-	0.1978	0.0659	0.4615	1.1634	(0.0024)	23.3665
	Flanagan, Illinois	20.4572	20.7555	0.5518	0.1730	-	0.1978	0.0659	-	1.1634	(0.0024)	22.9050
	Griffith, Indiana	20.4572	20.7555	0.5518	0.1730	-	0.1978	0.0659	0.4615	1.1634	(0.0024)	23.3665
	Stockbridge, Michigan	22.7931	23.1255	0.6307	0.1730	-	0.1978	0.0659	0.4615	1.3113	(0.0024)	25.9633
	Marysville, Michigan	22.7931	23.1255	0.6307	0.1730	-	0.1978	0.0659	0.4615	1.3113	(0.0024)	25.9633
	Corunna or Sarnia Terminal, Ontario	23.1634	23.5012	0.6332	0.1778	-	0.1978	0.0659	0.4615	1.3177	(0.0025)	26.3526
Westover, Ontario	24.8929	25.2559	0.6739	0.2150	-	0.1978	0.0659	0.4615	1.4225	(0.0030)	28.2895	
Nanticoke, Ontario	25.5491	25.9217	0.6894	0.2291	-	0.1978	0.0659	0.4615	1.4622	(0.0032)	29.0244	
Regina, Saskatchewan	Clearbrook, Minnesota	8.3854	8.5077	0.1755	0.1057	-	-	-	-	0.4074	(0.0015)	9.1948
	Superior, Wisconsin	11.1138	11.2759	0.2628	0.1057	-	-	-	-	0.5708	(0.0015)	12.2137
	Lockport, Illinois	17.3265	17.5792	0.4781	0.1057	-	0.1978	0.0659	0.4615	0.9737	(0.0015)	19.8604
	Mokena, Illinois	17.3265	17.5792	0.4781	0.1057	-	0.1978	0.0659	0.4615	0.9737	(0.0015)	19.8604
	Flanagan, Illinois	17.3265	17.5792	0.4781	0.1057	-	0.1978	0.0659	-	0.9737	(0.0015)	19.3989
	Griffith, Indiana	17.3265	17.5792	0.4781	0.1057	-	0.1978	0.0659	0.4615	0.9737	(0.0015)	19.8604
	Stockbridge, Michigan	19.6625	19.9492	0.5570	0.1057	-	0.1978	0.0659	0.4615	1.1216	(0.0015)	22.4572
	Marysville, Michigan	19.6625	19.9492	0.5570	0.1057	-	0.1978	0.0659	0.4615	1.1216	(0.0015)	22.4572
	Corunna or Sarnia Terminal, Ontario	20.0327	20.3248	0.5595	0.1105	-	0.1978	0.0659	0.4615	1.1280	(0.0015)	22.8465
Westover, Ontario	21.7622	22.0796	0.6001	0.1477	-	0.1978	0.0659	0.4615	1.2328	(0.0020)	24.7834	
Nanticoke, Ontario	22.4187	22.7456	0.6156	0.1618	-	0.1978	0.0659	0.4615	1.2726	(0.0022)	25.5186	
Cromer, Manitoba	Clearbrook, Minnesota	6.1237	6.2130	0.1222	0.0571	-	-	-	-	0.2704	(0.0008)	6.6619
	Superior, Wisconsin	8.8525	8.9816	0.2095	0.0571	-	-	-	-	0.4338	(0.0008)	9.6812
	Lockport, Illinois	15.0652	15.2849	0.4248	0.0571	-	0.1978	0.0659	0.4615	0.8367	(0.0008)	17.3279
	Mokena, Illinois	15.0652	15.2849	0.4248	0.0571	-	0.1978	0.0659	0.4615	0.8367	(0.0008)	17.3279
	Flanagan, Illinois	15.0652	15.2849	0.4248	0.0571	-	0.1978	0.0659	-	0.8367	(0.0008)	16.8664
	Griffith, Indiana	15.0652	15.2849	0.4248	0.0571	-	0.1978	0.0659	0.4615	0.8367	(0.0008)	17.3279
	Stockbridge, Michigan	17.4011	17.6549	0.5037	0.0571	-	0.1978	0.0659	0.4615	0.9846	(0.0008)	19.9247
	Marysville, Michigan	17.4011	17.6549	0.5037	0.0571	-	0.1978	0.0659	0.4615	0.9846	(0.0008)	19.9247
	Corunna or Sarnia Terminal, Ontario	17.7713	18.0305	0.5062	0.0618	-	0.1978	0.0659	0.4615	0.9910	(0.0008)	20.3139
Westover, Ontario	19.5007	19.7851	0.5469	0.0990	-	0.1978	0.0659	0.4615	1.0958	(0.0013)	22.2507	
Nanticoke, Ontario	20.1570	20.4510	0.5624	0.1132	-	0.1978	0.0659	0.4615	1.1356	(0.0015)	22.9859	

¹Adjusted by 75% of GDPP Index (as defined in CTS Section 3.1 (hh)) of 1.9444%

JOINT TRANSPORTATION RATES IN US DOLLARS PER CUBIC METER												
Medium Crude Petroleum												
FROM	TO	Transmission & Terminalling from CER No. 466 FERC No. 45.22.0	Adjusted Transmission & Terminalling ¹	CTS Section 20.1 (i) Surcharge	Abandonment Surcharge	Edmonton Transportation Surcharge ¹	Phase 1 Southern Access Expansion Surcharge ¹	Interim Lakehead Operation Tank Surcharge ¹	Line 78 (Line 62) Surcharge ¹	Interim Line 3 Replacement Surcharge	Non-Performance Penalty Credit	Total CER No. 471 & FERC No. 45.23.0
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)=(B)+(C)+(D)+(E)+(F)+(G)+(H)+(I)+(J)
Edmonton, Alberta	Clearbrook, Minnesota	15.6592	15.8876	0.3481	0.2400	1.6482	-	-	-	0.7856	(0.0034)	18.9061
	Superior, Wisconsin	18.5954	18.8666	0.4424	0.2400	1.6482	-	-	-	0.9491	(0.0034)	22.1429
	Lockport, Illinois	25.3155	25.6847	0.6750	0.2400	1.6482	0.1978	0.0659	0.4615	1.3520	(0.0034)	30.3217
	Mokena, Illinois	25.3155	25.6847	0.6750	0.2400	1.6482	0.1978	0.0659	0.4615	1.3520	(0.0034)	30.3217
	Flanagan, Illinois	25.3155	25.6847	0.6750	0.2400	1.6482	0.1978	0.0659	-	1.3520	(0.0034)	29.8602
	Griffith, Indiana	25.3155	25.6847	0.6750	0.2400	1.6482	0.1978	0.0659	0.4615	1.3520	(0.0034)	30.3217
	Stockbridge, Michigan	27.8383	28.2443	0.7603	0.2400	1.6482	0.1978	0.0659	0.4615	1.4998	(0.0034)	33.1144
	Marysville, Michigan	27.8383	28.2443	0.7603	0.2400	1.6482	0.1978	0.0659	0.4615	1.4998	(0.0034)	33.1144
	Corunna or Sarnia Terminal, Ontario	28.2188	28.6303	0.7630	0.2448	1.6482	0.1978	0.0659	0.4615	1.5063	(0.0034)	33.5144
Hardisty, Alberta	Westover, Ontario	30.0864	30.5252	0.8070	0.2820	1.6482	0.1978	0.0659	0.4615	1.6111	(0.0040)	35.5947
	Nanticoke, Ontario	30.7952	31.2443	0.8238	0.2961	1.6482	0.1978	0.0659	0.4615	1.6508	(0.0042)	36.3842
	Clearbrook, Minnesota	13.9828	14.1867	0.3086	0.2066	-	-	-	-	0.6916	(0.0029)	15.3906
	Superior, Wisconsin	16.9190	17.1657	0.4029	0.2066	-	-	-	-	0.8550	(0.0029)	18.6273
	Lockport, Illinois	23.6393	23.9840	0.6355	0.2066	-	0.1978	0.0659	0.4615	1.2580	(0.0029)	26.8064
	Mokena, Illinois	23.6393	23.9840	0.6355	0.2066	-	0.1978	0.0659	0.4615	1.2580	(0.0029)	26.8064
	Flanagan, Illinois	23.6393	23.9840	0.6355	0.2066	-	0.1978	0.0659	-	1.2580	(0.0029)	26.3449
	Griffith, Indiana	23.6393	23.9840	0.6355	0.2066	-	0.1978	0.0659	0.4615	1.2580	(0.0029)	26.8064
	Stockbridge, Michigan	26.1621	26.5436	0.7208	0.2066	-	0.1978	0.0659	0.4615	1.4058	(0.0029)	29.5991
Cromer, Manitoba	Marysville, Michigan	26.1621	26.5436	0.7208	0.2066	-	0.1978	0.0659	0.4615	1.4058	(0.0029)	29.5991
	Corunna or Sarnia Terminal, Ontario	26.5426	26.9297	0.7236	0.2114	-	0.1978	0.0659	0.4615	1.4123	(0.0030)	29.9992
	Westover, Ontario	28.4104	28.8247	0.7675	0.2486	-	0.1978	0.0659	0.4615	1.5170	(0.0035)	32.0795
	Nanticoke, Ontario	29.1190	29.5437	0.7843	0.2627	-	0.1978	0.0659	0.4615	1.5568	(0.0037)	32.8690
	Clearbrook, Minnesota	6.4737	6.5681	0.1318	0.0571	-	-	-	-	0.2704	(0.0008)	7.0266
	Superior, Wisconsin	9.4100	9.5472	0.2261	0.0571	-	-	-	-	0.4338	(0.0008)	10.2634
	Lockport, Illinois	16.1300	16.3652	0.4587	0.0571	-	0.1978	0.0659	0.4615	0.8367	(0.0008)	18.4421
	Mokena, Illinois	16.1300	16.3652	0.4587	0.0571	-	0.1978	0.0659	0.4615	0.8367	(0.0008)	18.4421
	Flanagan, Illinois	16.1300	16.3652	0.4587	0.0571	-	0.1978	0.0659	-	0.8367	(0.0008)	17.9806
Cromer, Manitoba	Griffith, Indiana	16.1300	16.3652	0.4587	0.0571	-	0.1978	0.0659	0.4615	0.8367	(0.0008)	18.4421
	Stockbridge, Michigan	18.6528	18.9248	0.5440	0.0571	-	0.1978	0.0659	0.4615	0.9846	(0.0008)	21.2349
	Marysville, Michigan	18.6528	18.9248	0.5440	0.0571	-	0.1978	0.0659	0.4615	0.9846	(0.0008)	21.2349
	Corunna or Sarnia Terminal, Ontario	19.0332	19.3108	0.5467	0.0618	-	0.1978	0.0659	0.4615	0.9910	(0.0008)	21.6347
	Westover, Ontario	20.9010	21.2058	0.5907	0.0990	-	0.1978	0.0659	0.4615	1.0958	(0.0013)	23.7152
	Nanticoke, Ontario	21.6097	21.9248	0.6074	0.1132	-	0.1978	0.0659	0.4615	1.1356	(0.0015)	24.5047

¹Adjusted by 75% of GDPP Index (as defined in CTS Section 3.1 (hh)) of 1.9444%

JOINT TRANSPORTATION RATES IN US DOLLARS PER CUBIC METER												
Heavy Crude Petroleum												
FROM	TO	Transmission & Terminalling from CER No. 466 FERC No. 45.22.0	Adjusted Transmission & Terminalling ¹	CTS Section 20.1 (i) Surcharge	Abandonment Surcharge	Edmonton Transportation Surcharge ¹	Phase 1 Southern Access Expansion Surcharge ¹	Interim Lakehead Operation Tank Surcharge ¹	Line 78 (Line 62) Surcharge ¹	Interim Line 3 Replacement Surcharge	Non-Performance Penalty Credit	Total CER No. 471 & FERC No. 45.23.0
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)=(B)+(C)+(D)+(E)+(F)+(G)+(H)+(I)+(J)
Edmonton, Alberta	Clearbrook, Minnesota	17.4639	17.7186	0.3934	0.2400	1.6482	-	-	-	0.7856	(0.0034)	20.7824
	Superior, Wisconsin	20.7602	21.0630	0.5000	0.2400	1.6482	-	-	-	0.9491	(0.0034)	24.3969
	Lockport, Illinois	28.3735	28.7873	0.7625	0.2400	1.6482	0.1978	0.0659	0.4615	1.3520	(0.0034)	33.5118
	Mokena, Illinois	28.3735	28.7873	0.7625	0.2400	1.6482	0.1978	0.0659	0.4615	1.3520	(0.0034)	33.5118
	Flanagan, Illinois	28.3735	28.7873	0.7625	0.2400	1.6482	0.1978	0.0659	-	1.3520	(0.0034)	33.0503
	Griffith, Indiana	28.3735	28.7873	0.7625	0.2400	1.6482	0.1978	0.0659	0.4615	1.3520	(0.0034)	33.5118
	Stockbridge, Michigan	31.2241	31.6795	0.8590	0.2400	1.6482	0.1978	0.0659	0.4615	1.4998	(0.0034)	36.6483
	Marysville, Michigan	31.2241	31.6795	0.8590	0.2400	1.6482	0.1978	0.0659	0.4615	1.4998	(0.0034)	36.6483
	Corunna or Sarnia Terminal, Ontario	31.6157	32.0768	0.8620	0.2448	1.6482	0.1978	0.0659	0.4615	1.5063	(0.0034)	37.0599
Westover, Ontario	33.7257	34.2175	0.9117	0.2820	1.6482	0.1978	0.0659	0.4615	1.6111	(0.0040)	39.3917	
Nanticoke, Ontario	34.5264	35.0299	0.9306	0.2961	1.6482	0.1978	0.0659	0.4615	1.6508	(0.0042)	40.2766	
Hardisty, Alberta	Clearbrook, Minnesota	15.5703	15.7974	0.3488	0.2066	-	-	-	-	0.6916	(0.0029)	17.0415
	Superior, Wisconsin	18.8667	19.1418	0.4554	0.2066	-	-	-	-	0.8550	(0.0029)	20.6559
	Lockport, Illinois	26.4798	26.8660	0.7179	0.2066	-	0.1978	0.0659	0.4615	1.2580	(0.0029)	29.7708
	Mokena, Illinois	26.4798	26.8660	0.7179	0.2066	-	0.1978	0.0659	0.4615	1.2580	(0.0029)	29.7708
	Flanagan, Illinois	26.4798	26.8660	0.7179	0.2066	-	0.1978	0.0659	-	1.2580	(0.0029)	29.3093
	Griffith, Indiana	26.4798	26.8660	0.7179	0.2066	-	0.1978	0.0659	0.4615	1.2580	(0.0029)	29.7708
	Stockbridge, Michigan	29.3306	29.7583	0.8144	0.2066	-	0.1978	0.0659	0.4615	1.4058	(0.0029)	32.9074
	Marysville, Michigan	29.3306	29.7583	0.8144	0.2066	-	0.1978	0.0659	0.4615	1.4058	(0.0029)	32.9074
	Corunna or Sarnia Terminal, Ontario	29.7225	30.1560	0.8174	0.2114	-	0.1978	0.0659	0.4615	1.4123	(0.0030)	33.3193
Westover, Ontario	31.8323	32.2965	0.8671	0.2486	-	0.1978	0.0659	0.4615	1.5170	(0.0035)	35.6509	
Nanticoke, Ontario	32.6329	33.1088	0.8860	0.2627	-	0.1978	0.0659	0.4615	1.5568	(0.0037)	36.5358	

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JOINT TRANSPORTATION RATES IN US DOLLARS PER CUBIC METER												
Heavy Crude Petroleum												
FROM	TO	Transmission & Terminalling from CER No. 466 FERC No. 45.22.0	Adjusted Transmission & Terminalling ¹	CTS Section 20.1 (i) Surcharge	Abandonment Surcharge	Edmonton Transportation Surcharge ¹	Phase 1 Southern Access Expansion Surcharge ¹	Interim Lakehead Operation Tank Surcharge ¹	Line 78 (Line 62) Surcharge ¹	Interim Line 3 Replacement Surcharge	Non-Performance Penalty Credit	Total CER No. 471 & FERC No. 45.23.0
		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)=(B)+(C)+(D)+(E)+(F)+(G)+(H)+(I)+(J)
Kerrobert, Saskatchewan	Clearbrook, Minnesota	13.6661	13.8654	0.3039	0.1730	-	-	-	-	0.5971	(0.0024)	14.9370
	Superior, Wisconsin	16.9624	17.2098	0.4105	0.1730	-	-	-	-	0.7605	(0.0024)	18.5514
	Lockport, Illinois	24.5757	24.9341	0.6730	0.1730	-	0.1978	0.0659	0.4615	1.1634	(0.0024)	27.6663
	Mokena, Illinois	24.5757	24.9341	0.6730	0.1730	-	0.1978	0.0659	0.4615	1.1634	(0.0024)	27.6663
	Flanagan, Illinois	24.5757	24.9341	0.6730	0.1730	-	0.1978	0.0659	-	1.1634	(0.0024)	27.2048
	Griffith, Indiana	24.5757	24.9341	0.6730	0.1730	-	0.1978	0.0659	0.4615	1.1634	(0.0024)	27.6663
	Stockbridge, Michigan	27.4263	27.8263	0.7695	0.1730	-	0.1978	0.0659	0.4615	1.3113	(0.0024)	30.8029
	Marysville, Michigan	27.4263	27.8263	0.7695	0.1730	-	0.1978	0.0659	0.4615	1.3113	(0.0024)	30.8029
	Corunna or Sarnia Terminal, Ontario	27.8180	28.2237	0.7726	0.1778	-	0.1978	0.0659	0.4615	1.3177	(0.0025)	31.2145
Regina, Saskatchewan	Westover, Ontario	29.9278	30.3642	0.8223	0.2150	-	0.1978	0.0659	0.4615	1.4225	(0.0030)	33.5462
	Nanticoke, Ontario	30.7286	31.1767	0.8411	0.2291	-	0.1978	0.0659	0.4615	1.4622	(0.0032)	34.4311
	Clearbrook, Minnesota	9.8466	9.9902	0.2141	0.1057	-	-	-	-	0.4074	(0.0015)	10.7159
	Superior, Wisconsin	13.1429	13.3346	0.3207	0.1057	-	-	-	-	0.5708	(0.0015)	14.3303
	Lockport, Illinois	20.7563	21.0590	0.5832	0.1057	-	0.1978	0.0659	0.4615	0.9737	(0.0015)	23.4453
	Mokena, Illinois	20.7563	21.0590	0.5832	0.1057	-	0.1978	0.0659	0.4615	0.9737	(0.0015)	23.4453
	Flanagan, Illinois	20.7563	21.0590	0.5832	0.1057	-	0.1978	0.0659	-	0.9737	(0.0015)	22.9838
	Griffith, Indiana	20.7563	21.0590	0.5832	0.1057	-	0.1978	0.0659	0.4615	0.9737	(0.0015)	23.4453
	Stockbridge, Michigan	23.6071	23.9514	0.6797	0.1057	-	0.1978	0.0659	0.4615	1.1216	(0.0015)	26.5821
Cromer, Manitoba	Marysville, Michigan	23.6071	23.9514	0.6797	0.1057	-	0.1978	0.0659	0.4615	1.1216	(0.0015)	26.5821
	Corunna or Sarnia Terminal, Ontario	23.9987	24.3487	0.6827	0.1105	-	0.1978	0.0659	0.4615	1.1280	(0.0015)	26.9936
	Westover, Ontario	26.1086	26.4894	0.7323	0.1477	-	0.1978	0.0659	0.4615	1.2328	(0.0020)	29.3254
	Nanticoke, Ontario	26.9092	27.3016	0.7512	0.1618	-	0.1978	0.0659	0.4615	1.2726	(0.0022)	30.2102
	Clearbrook, Minnesota	7.0876	7.1910	0.1489	0.0571	-	-	-	-	0.2704	(0.0008)	7.6666
	Superior, Wisconsin	10.3841	10.5355	0.2555	0.0571	-	-	-	-	0.4338	(0.0008)	11.2811
	Lockport, Illinois	17.9972	18.2597	0.5180	0.0571	-	0.1978	0.0659	0.4615	0.8367	(0.0008)	20.3959
	Mokena, Illinois	17.9972	18.2597	0.5180	0.0571	-	0.1978	0.0659	0.4615	0.8367	(0.0008)	20.3959
	Flanagan, Illinois	17.9972	18.2597	0.5180	0.0571	-	0.1978	0.0659	-	0.8367	(0.0008)	19.9344
Cromer, Manitoba	Griffith, Indiana	17.9972	18.2597	0.5180	0.0571	-	0.1978	0.0659	0.4615	0.8367	(0.0008)	20.3959
	Stockbridge, Michigan	20.8479	21.1519	0.6145	0.0571	-	0.1978	0.0659	0.4615	0.9846	(0.0008)	23.5325
	Marysville, Michigan	20.8479	21.1519	0.6145	0.0571	-	0.1978	0.0659	0.4615	0.9846	(0.0008)	23.5325
	Corunna or Sarnia Terminal, Ontario	21.2397	21.5494	0.6177	0.0618	-	0.1978	0.0659	0.4615	0.9910	(0.0008)	23.9443
	Westover, Ontario	23.3496	23.6901	0.6673	0.0990	-	0.1978	0.0659	0.4615	1.0958	(0.0013)	26.2761
	Nanticoke, Ontario	24.1502	24.5024	0.6861	0.1132	-	0.1978	0.0659	0.4615	1.1356	(0.0015)	27.1610

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