



- Canadian Mainline
- Lakehead System (U.S. Mainline)
- Other Enbridge Lines
- Enbridge Terminal/Tank
- City/Town

2.85 million bpd

Barrels Per Day – one barrel = 42 US gallons

This is 119,700,000 gallons per day

One hundred and nineteen million, seven hundred thousand gallons per day

Construction History – upstream of Superior

- Line 1 is an 18 to 20 inch diameter light crude, refined products, and natural gas liquids pipeline installed in 1950 (construction started in 1949). 237,000 bpd.
- Line 2 is a 24 to 26 inch diameter light crude pipeline that was installed in 1957. 442,000 bpd.
- Line 3 was a 34 inch diameter crude oil pipeline that was originally installed in 1967; it was rebuilt in a new trench between 2020 and 2021 and is now 36 inches for most of its run and referred to as Line 93. It carries light, medium, and heavy crude. 760,000 bpd.
- Line 4 is a 36 to 48 inch diameter light, medium, and heavy crude oil pipeline that was installed in 2002. 796,000 bpd.
- Line 65 is a 20-inch diameter crude oil pipeline that was completed in 2010.
- The Alberta Clipper (Line 67) and Southern Lights (Line 13) pipelines are collocated 36- and 20-inch-diameter crude oil pipelines, respectively, that were co-constructed in 2009 and 2010. The Alberta Clipper was expanded twice through pressure increases and pumping station additions.

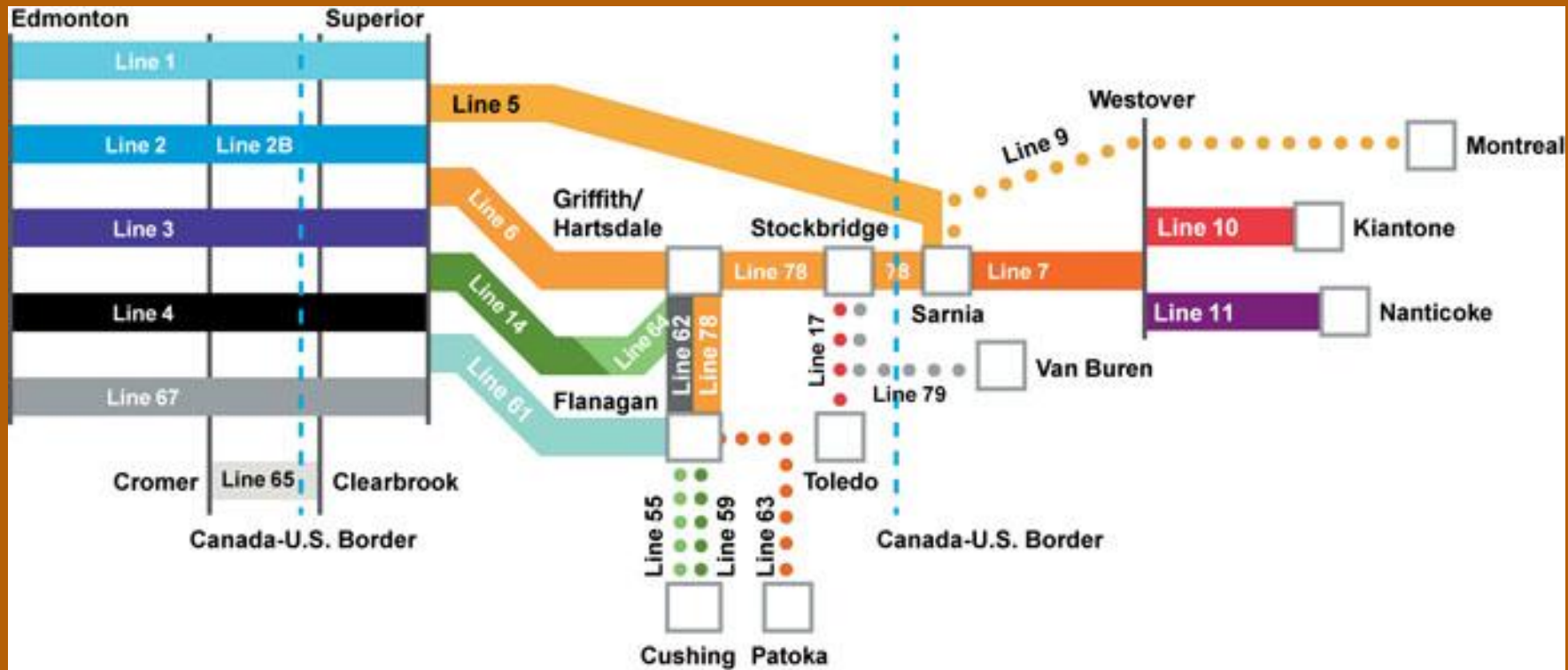
Construction History – downstream of Superior, northern route

- Line 5 is a 30-inch diameter light crude, light synthetic crude, and natural gas liquids pipeline completed in 1953. It splits briefly into two smaller pipelines to cross under the Straits of Mackinac. 540,000 bpd.
- Line 7 is a 20 inch diameter light, medium, and heavy crude pipeline completed in 1957. 180,000 bpd.
- Line 11 is a 16 to 20 inch light, medium, and heavy crude pipeline. 117,000 bpd.

Construction History – downstream of Superior, southern route

- Line 6 is a 34-inch diameter light, medium, and heavy crude pipeline. It has two sections – 6A is 34 inches in diameter and 6B is 30 inches in diameter. It was completed in 1969.
- Line 14/64 is a 24-inch diameter light and medium crude pipeline completed in 1998. 343,000 bpd.
- Line 61 is a 42 inch diameter light, medium, and heavy crude pipeline completed in 2009. 996,000 bpd





Key Points on the Mainline

- **Edmonton, Alberta: the Canadian Mainline receives western Canadian crude oil from feeder pipelines.**
- **Hardisty, Alberta: the Canadian Mainline receives western Canadian crude oil from feeder pipelines. Hardisty is also a delivery point for the Canadian Mainline.**
- Kerrobert, Saskatchewan: receipt and delivery point for the Canadian Mainline.
- Milden, Saskatchewan: delivery point for the Canadian Mainline.
- Stony Beach, Saskatchewan: delivery point for the Canadian Mainline.
- Regina, Saskatchewan: the Canadian Mainline receives U.S. crude oil from the Wascana Pipeline and connects to the Cooperative Refinery Complex.
- Cromer, Manitoba: the Canadian Mainline receives U.S. crude oil from the Enbridge Bakken pipeline and Canadian oil from the Westspur Pipeline.
- **Near Gretna, Manitoba: the pipeline crosses the Canada-U.S. border and joins with the Enbridge Lakehead system. Delivery point for the Canadian Mainline.**
- **Clearbrook, Minnesota: the U.S. Mainline receives U.S. crude oil from the Enbridge North Dakota pipeline and connects with the Minnesota Pipe Line that can deliver crude oil to refineries in Minnesota and Wood River, Illinois.**
- **Superior, Wisconsin: delivery point for the U.S. Mainline.**
- Lockport, Illinois: delivery point for the U.S. Mainline.
- Mokena, Illinois: receipt and delivery point for the U.S. Mainline.
- Flanagan, Illinois: delivery point for the U.S. Mainline.
- Griffith, Indiana: receipt and delivery point for the U.S. Mainline.
- Stockbridge, Michigan: receipt and delivery point for the U.S. Mainline.
- Rapid River, Michigan: delivery point for the U.S. Mainline.
- Marysville, Michigan: delivery point for the U.S. Mainline.
- Lewiston, Michigan: receipt point for the U.S. Mainline.
- **Corunna/Sarnia, Ontario: the Mainline connects with Line 9, which delivers crude oil to Montreal, Quebec. Also a delivery point for the Canadian Mainline and connection with the Sarnia refineries.**
- Westover: receipt and delivery point for the Canadian Mainline.
- Nanticoke: delivery point for the Canadian Mainline and connection with the Imperial Oil Refinery.



Dru Oja Jay, Dominion, tar sands, Alberta
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MN ← 350 TAR SANDS OIL

21% higher greenhouse gas emissions.

A land area **about the size of Florida.**

Athabasca Chipewyan First Nation Territory.

2-4 barrels of water for each barrel of oil.

Nuclear plants to make steam to extract tar sands oil?!?



MN←350 TAR SANDS BY PIPE

Too thick to pump through pipelines – like peanut butter.

Expensive to move by truck & rail.

Pipelines are needed to make extraction **profitable**.

Sinks in water – see Kalamazoo spill.

Leaks are **hard to detect**.