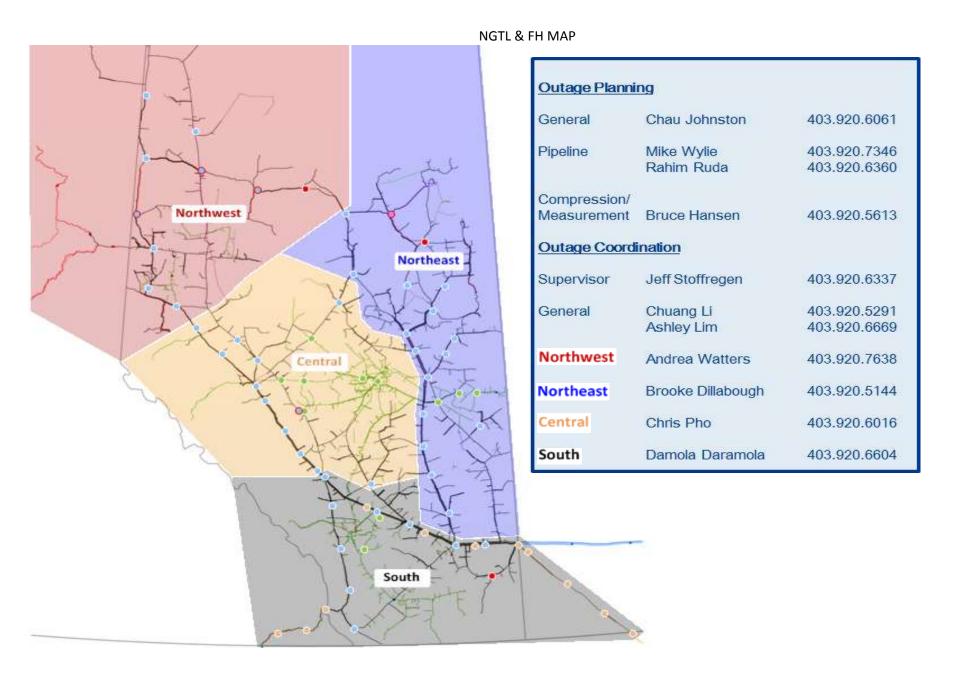


NGTL & Foothills Systems Monthly Outage Forecast September 2016



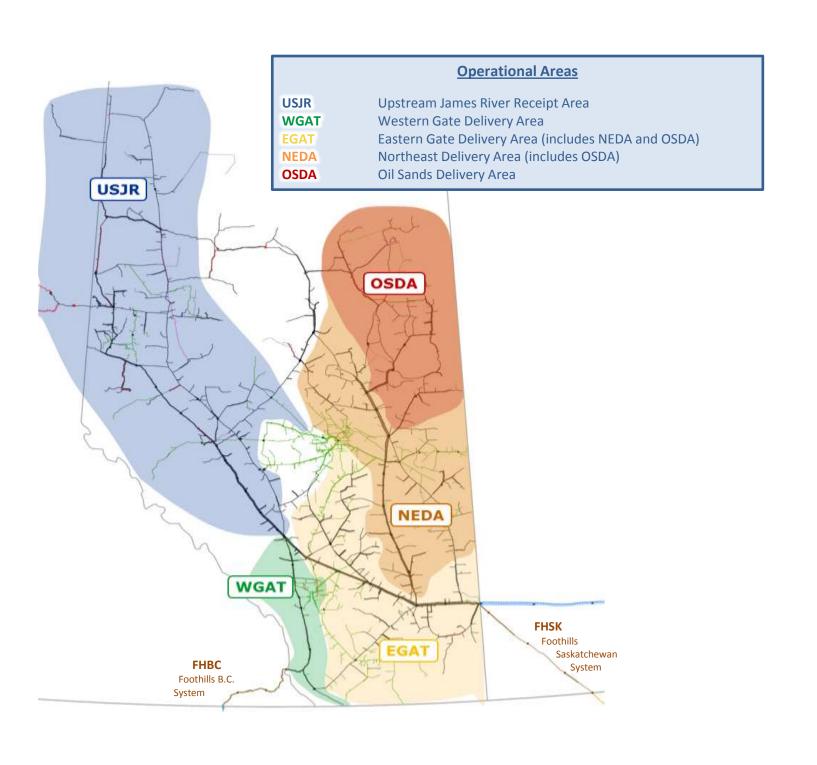
September Monthly Outage Forecast

The Monthly Outage Forecast is a tool provided by TransCanada to show the estimated operational capability. This information is provided for informational purposes only and is not to be relied upon for any other purpose whatsoever. The information is based upon certain assumptions that may or may not be accurate, and therefore is subject to various risks and uncertainties. TransCanada shall not be liable for damages sustained as a result of any use or reliance on such information. Please note, only known and planned outages at the time of publishing will be included in the Monthly Outage Forecast. As new outages are planned they will be added to subsequent MOF reports.

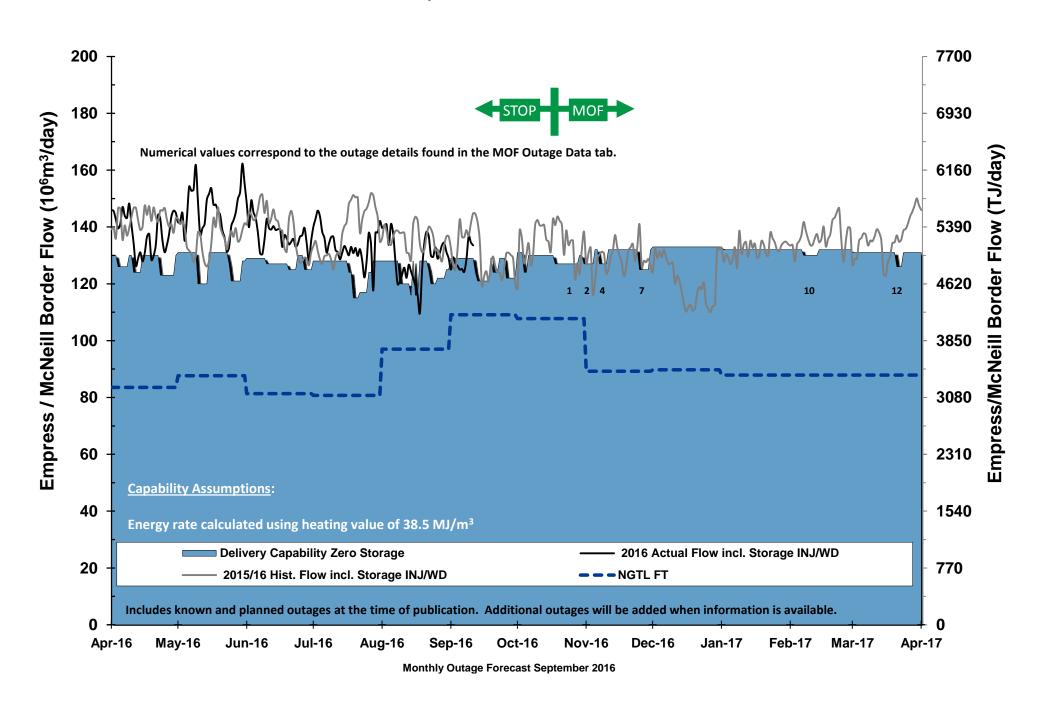


For NGTL System Facilities Segment codes please view link below

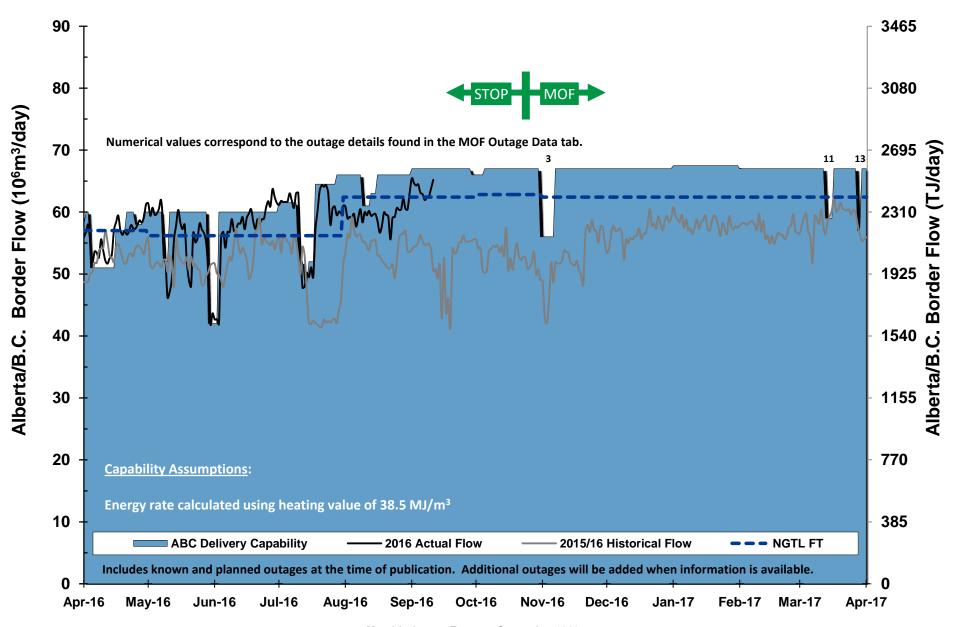
 $\underline{\text{http://www.transcanada.com/customerexpress/docs/fh_system_maps/AB_System_Map_2015_Segments_Rev18.pdf}$



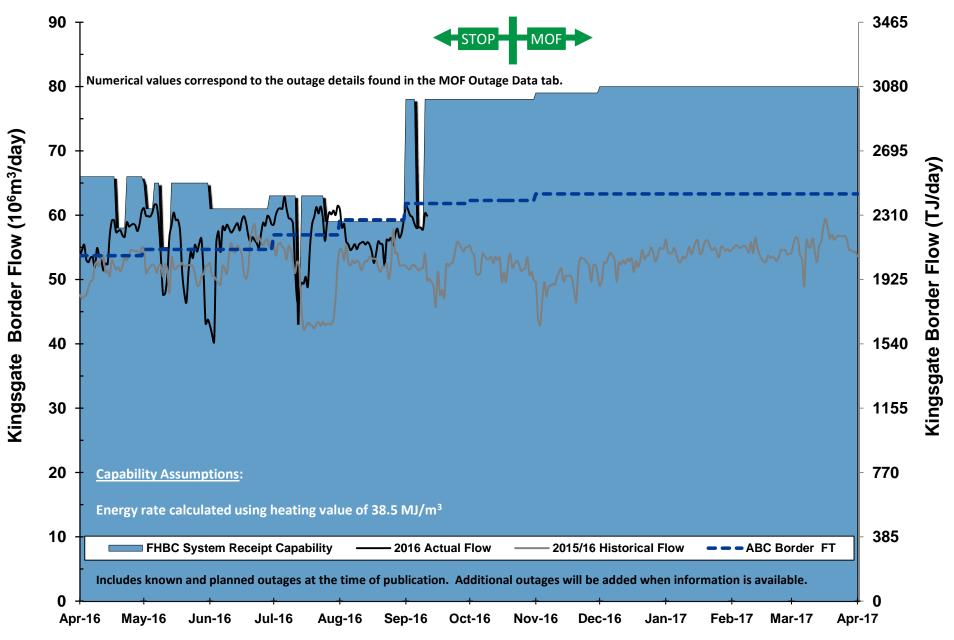
Empress/McNeill Border



Alberta/B.C. Border

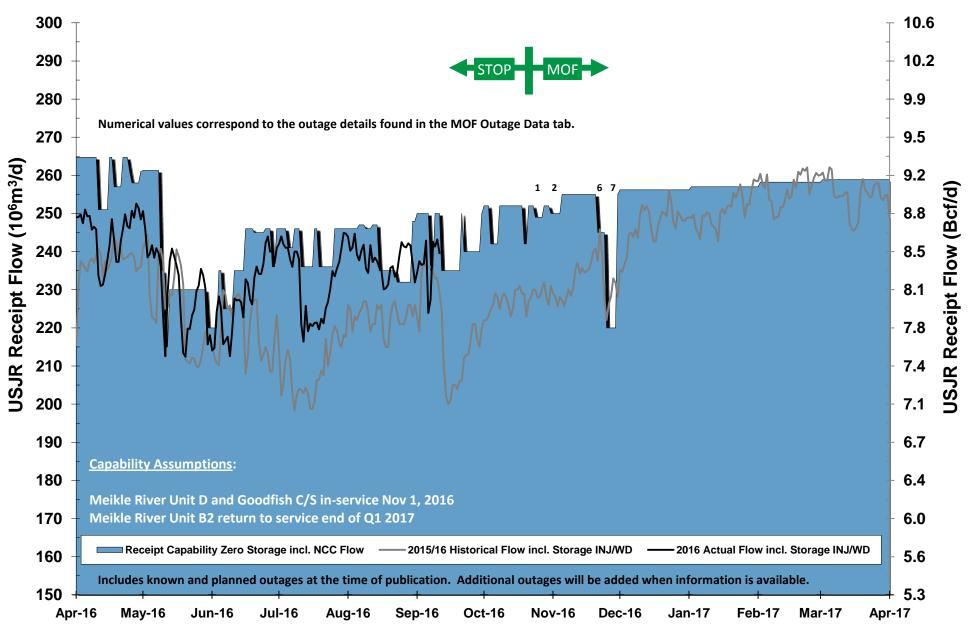


Kingsgate Border



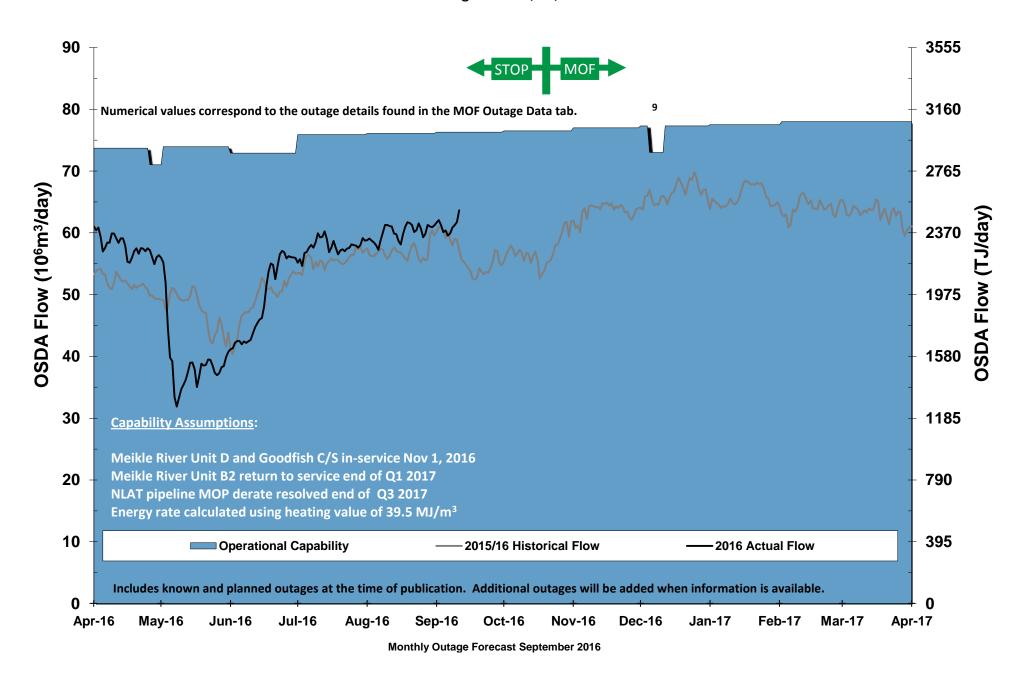
Upstream of James River Outlook

Segments 1, 2, 3, 4, 5, 7, partial 8, partial 9, 24, 26, partial 28



Oil Sands Delivery Area (OSDA) Outlook

Segments 10, 11, 14



NGTL & Foothills Systems - Monthly Outage Forecast September 2016

Area Definitions

USJR Upstream James River Receipt Area: Groundbirch East, Gordondale, Big Eddy, January Creek, and Rat Creek West interconnects, and all receipt locations in Segments 1, 2, 3, 4, 5, 7, partial 8, partial 9, 24, 26, partial 28. East Gate Delivery Area: Empress, McNeill, Unity, Cold Lake, Aeco C, Warwick Southeast, Chancellor, Carbon, Severn Creek, and Crossfield interconnects,

and all delivery locations in Segments 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, partial 21, 22, 23, partial 28.

• NEDA

North and East Delivery Area: Unity, Cold Lake, Warwick Southeast interconnects, and all delivery locations in Segments 10, 11, 12, 13, 14, 15, 16, 23, partial 28:

OSDA Oil Sands Delivery Area: Cold Lake interconnect, and all delivery locations in Segments 10, 11, 14.

WGAT West Gate Delivery Area: Alberta B.C. and Alberta Montana interconnects, and delivery locations in partial Segment 21.

OUTAGE	SEG #	OUTAGE DESCRIPTION	DATES START FINISH		RECEIPT/DELIVERY IMPACT	CONTACT	AREA
1	3	Hidden Lake C/S - Station Maintenance (4 days). Dates and Capacity Revised	10/24/16	10/27/16	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 249 E6m3/d. Typical Flow 230-265 E6m3/d. Potential IT/FT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 131 E6m3/d. Typical Flow 125-135 e6m3/d	Andrea Watters	USJR EGAT
2	1	Meikle River C#3 C/S - Unit Maintenance (5 days). New	10/31/16	11/04/16	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 250 E6m3/d. Typical Flow 230-265 E6m3/d. Potential IT/FT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 127 E6m3/d. Typical Flow 125-135 e6m3/d	Andrea Watters	USJR EGAT
3	21	NPS 42 Western Alberta System (WAS) Mainline Loop - Pipeline Maintenance (7 days). Capacity Revised	10/31/16	11/06/16	Potential IT/FT delivery restriction in the West Gate Delivery Area. Alberta B. C. Capability 56 E6m3/d. Typical Flow 57-64 E6m3/d.	Damola Daramola	WGAT
4	18	Schrader Creek #1 - Station Maintenance (4 days). Dates and Capacity Revised	11/07/16	11/10/16	Potential IT/FT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 127 E6m3/d. Typical Flow 125-135 e6m3/d.	Damola Daramola	EGAT
5	20	NPS 12 Bigstone Lateral - Pipeline Modifications (6 days within window).	11/15/16	11/20/16	Nils required at Grizzly, Grizzly Sales and Bigstone Sales meter stations. Typical Receipt Flow 150 E3m3/d and Delivery Flow 50 E3m3/d.	Chris Pho	Local
6	8	Nordegg C/S- Station Maintenance (4 days). Dates Revised	11/22/16	11/25/16	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 245 E6m3/d. Typical Flow 230-265 e6m3/d.	Chris Pho	USJR
7	6 & 12	NPS 24/30 NCC Peerless Lake/Marten Hills Lateral Loop #2/Paul Lake Crossover - Pipeline Maintenance (5 days).	11/25/16	11/29/16	Potential IT/FT receipt restriction in the Upstream James River Receipt Area. Capability 220 E6m3/d. Typical Flow 230-265 E6m3/d. Potential IT/FT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 125 E6m3/d. Typical Flow 125-135 e6m3/d.	Chuang Li	USJR EGAT
8	20	NPS 10/12 Tide Lake Lateral - Pipeline Modifications (6 days within window).	12/01/16	12/15/16	Nils required at Tide Lake North, Tide Lake East, Tide Lake B, Tide Lake and Tide Lake South meter stations. Typical Flow 260-660 E3m3/d.	Damola Daramola	Local
9	10	NPS 36 NCC Loop and Fort McKay Mainline - Pipeline Maintenance (7 days).	12/05/16	12/11/16	Potential IT/FT delivery restriction in the Oil Sands Delivery Area. Capability 73 E6m3/d. Typical Flow 60-70 E6m3/d.	Brooke Dillabough	OSDA
10	6	NPS 24 Marten Hills Lateral Loop - Pipeline Modifications (6 days). New	02/07/17	02/13/17	Potential IT/FT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 130 E6m3/d. Typical Flow 125-135 e6m3/d.	Rahim Ruda	EGAT
11	21	Turner Valley #2 - Unit Maintenance (4 days). New	03/13/17	03/16/17	Potential IT/FT delivery restriction in the West Gate Delivery Area. Alberta B. C. Capability 59 E6m3/d. Typical Flow 57-64 E6m3/d.	Damola Daramola	WGAT

C/S Compressor Station
M/S Meter Station
Change & Compressor Station

Light Shade Changed Entry
Dark Shade New Entry

NGTL & Foothills Systems - Monthly Outage Forecast September 2016

Area Definitions

USJR Upstream James River Receipt Area: Groundbirch East, Gordondale, Big Eddy, January Creek, and Rat Creek West interconnects, and all receipt locations in Segments 1, 2, 3, 4, 5, 7, partial 8, partial 9, 24, 26, partial 28.

East Gate Delivery Area: Empress, McNeill, Unity, Cold Lake, Aeco C, Warwick Southeast, Chancellor, Carbon, Severn Creek, and Crossfield interconnects,

and all delivery locations in Segments 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, partial 21, 22, 23, partial 28.

• NEDA North and East Delivery Area: Unity, Cold Lake, Warwick Southeast interconnects, and all delivery locations in Segments 10, 11, 12, 13, 14, 15, 16, 23, partial 28:

• OSDA Oil Sands Delivery Area: Cold Lake interconnect, and all delivery locations in Segments 10, 11, 14.

WGAT West Gate Delivery Area: Alberta B.C. and Alberta Montana interconnects, and delivery locations in partial Segment 21.

OUTAGE #	SEG #	OUTAGE DESCRIPTION	DATES		RECEIPT/DELIVERY IMPACT	CONTACT	AREA
			START	FINISH			
12	20	Jenner C/S - Station Maintenance (3 days). New	03/21/17		Potential IT/FT delivery restriction in the East Gate Delivery Area. Empress/McNeill delivery Capability 126 E6m3/d. Typical Flow 125-135 e6m3/d.	Damola Daramola	EGAT
13	21	Burton Creek C/S - Station Maintenance (2 days). New	03/28/17	113/24/17	Potential IT/FT delivery restriction in the West Gate Delivery Area. Alberta B. C. Capability 57 E6m3/d. Typical Flow 57-64 E6m3/d.	Damola Daramola	WGAT

C/S Compressor Station
M/S Meter Station
Light Shade Changed Entry
Dark Shade New Entry