

# SYSTEM UTILIZATION MONTHLY REPORT

for the month ending

October 2017

<http://www.tccustomerexpress.com/2885.html>

*Published date:*

**December 15<sup>th</sup>, 2017**

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## Highlights This Month:

- No new highlights this month

NOVA Gas Transmission Ltd.

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Utilization reports are posted approximately six weeks after the end of the reported month.

If you have any questions on the content of this report, contact Winston Cao at (403) 920-5315 or [winston\\_cao@transcanada.com](mailto:winston_cao@transcanada.com).

# FIRM TRANSPORTATION SERVICE<sup>1</sup> CONTRACT UTILIZATION<sup>3</sup>

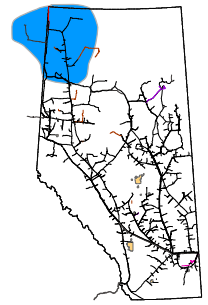
By NGTL Pipeline Segments

October 2017

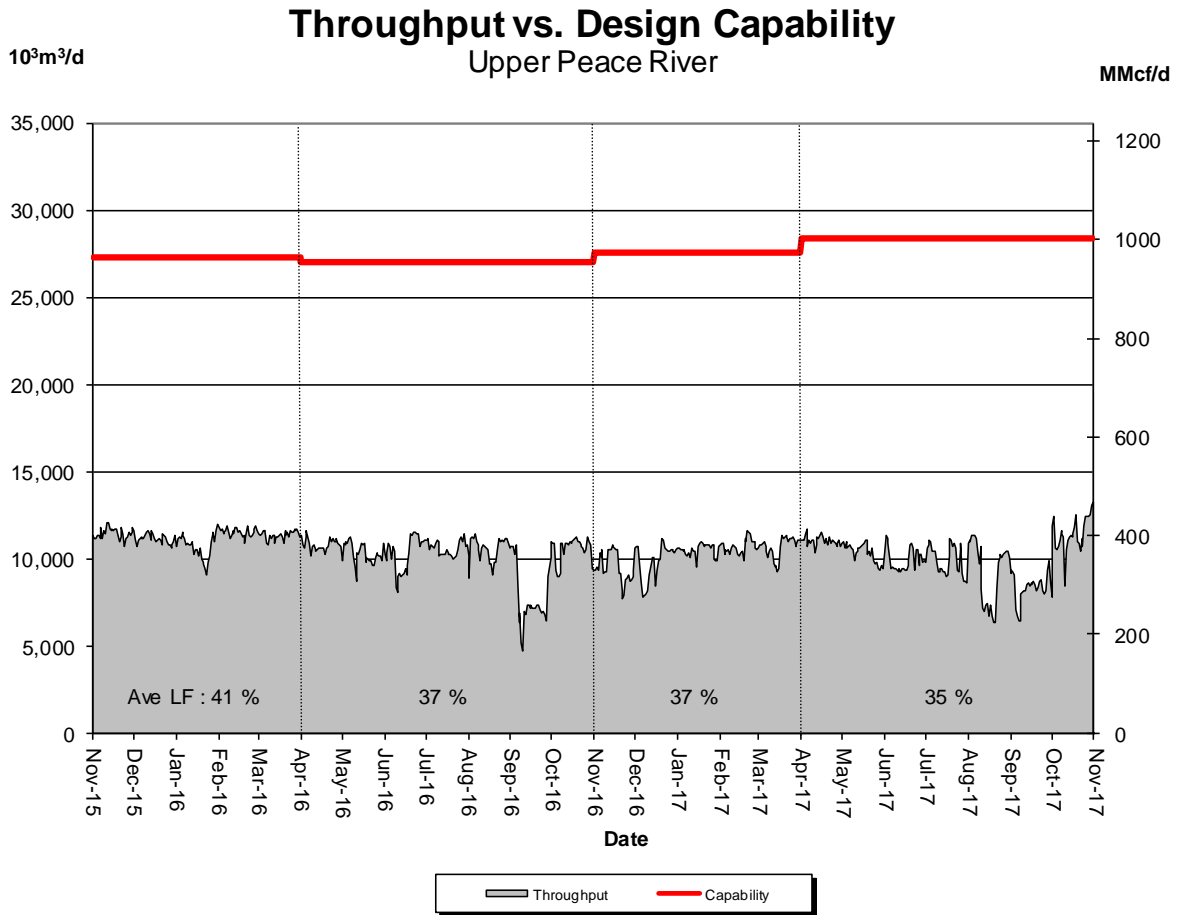
Segment	Contract	Delivery		Receipt	
		Utilization	Oct CD (TJ/d)	Utilization	Oct CD (MMcf/d)
UPRM	FT	0%	0.0	62%	73
	FT + IT <sup>2</sup>	0%		64%	
PRLL	FT	45%	32.5	87%	85
	FT + IT	53%		89%	
NWML	FT	72%	6.9	73%	355
	FT + IT	76%		76%	
GRDL	FT	51%	8.9	93%	2,368
	FT + IT	61%		96%	
WRSY	FT	0%	0.0	79%	25
	FT + IT	0%		85%	
WAEX	FT	36%	7.3	77%	854
	FT + IT	119%		77%	
JUDY	FT	53%	20.2	85%	55
	FT + IT	75%		89%	
GPML	FT	43%	161.3	86%	4,005
	FT + IT	83%		87%	
CENT	FT	0%	0.0	87%	1,805
	FT + IT	0%		89%	
LPOL	FT	60%	68.4	85%	845
	FT + IT	136%		90%	
WGAT	FT	73%	3,814.2	96%	259
	FT + IT	74%		112%	
ALEG	FT	41%	389.8	95%	703
	FT + IT	44%		108%	
SLAT	FT	28%	190.2	81%	204
	FT + IT	28%		101%	
MLAT	FT	68%	286.3	57%	168
	FT + IT	70%		72%	
BLEG	FT	49%	143.3	87%	534
	FT + IT	50%		93%	
EGAT	FT	100%	4,416.5	55%	30
	FT + IT	102%		69%	
MRTN	FT	22%	24.4	81%	45
	FT + IT	25%		109%	
LIEG	FT	63%	1,934.5	52%	29
	FT + IT	63%		117%	
KIRB	FT	83%	1,588.8	71%	38
	FT + IT	84%		98%	
SMHI	FT	59%	12.1	79%	14
	FT + IT	59%		209%	
REDL	FT	23%	19.0	42%	21
	FT + IT	28%		147%	
COLD	FT	49%	171.6	41%	17
	FT + IT	60%		103%	
EDM	FT	43%	1,886.7	78%	34
	FT + IT	44%		109%	
NLAT	FT	33%	13.3	95%	109
	FT + IT	34%		138%	
WAIN	FT	18%	0.4	87%	5
	FT + IT	18%		151%	
ELAT	FT	80%	294.2	90%	107
	FT + IT	83%		122%	
TOTAL SYSTEM	FT	74%	15,490.6	86%	12,787
	FT + IT	77%		91%	

\*NOTE:

1. FT includes all receipt and delivery Firm Transportation Services.
2. IT includes receipt and delivery Interruptible Services.
3. Utilization data is based on billed monthly volumes. Percent utilization calculated as FT and FT + IT billed volumes divided by applicable receipt or delivery Contract level.

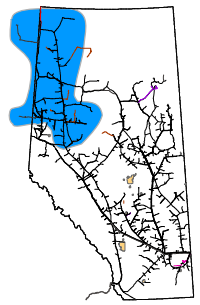


# DESIGN CAPABILITY UTILIZATION UPPER PEACE RIVER

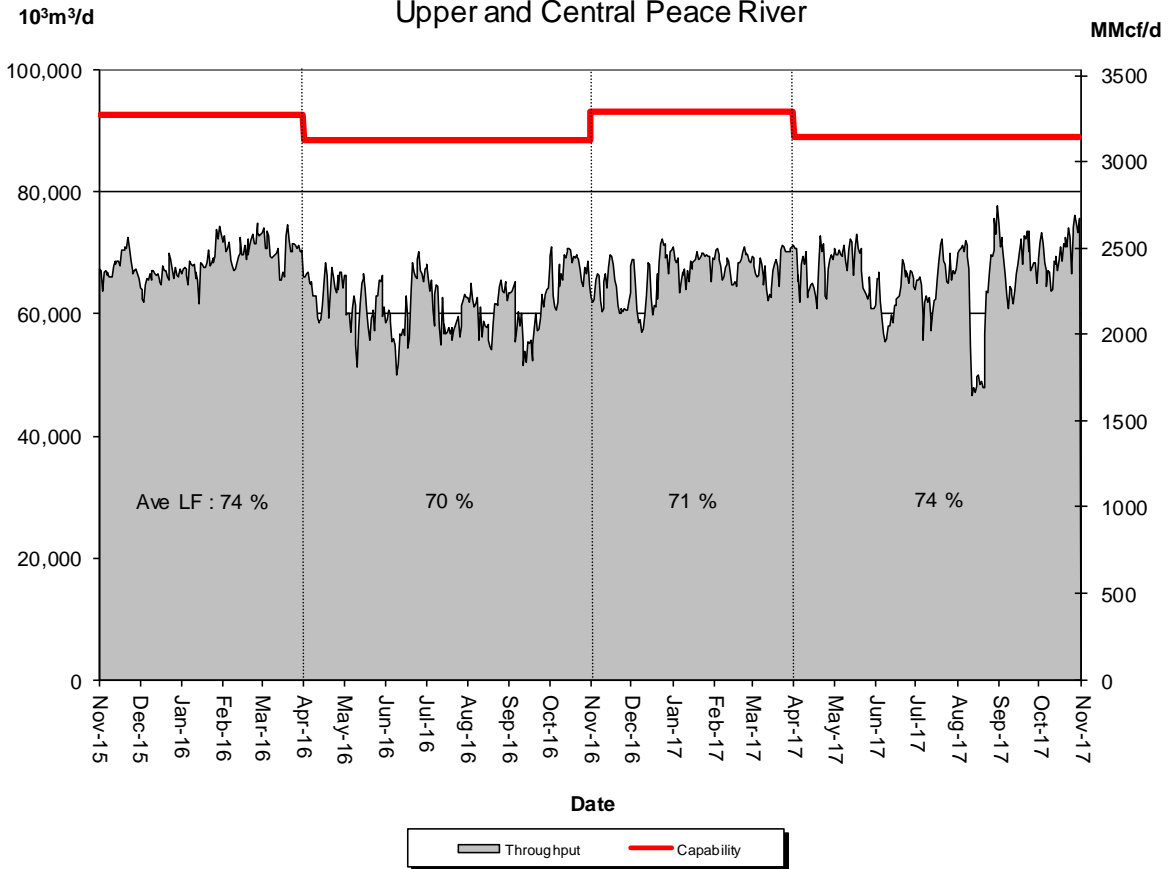


% Design Capability Utilization						
Design Capability	May	Jun	Jul	Aug	Sep	Oct
	37%	35%	35%	33%	29%	40%

# DESIGN CAPABILITY UTILIZATION UPPER and CENTRAL PEACE RIVER

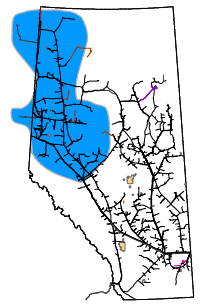


## Throughput vs. Design Capability Upper and Central Peace River

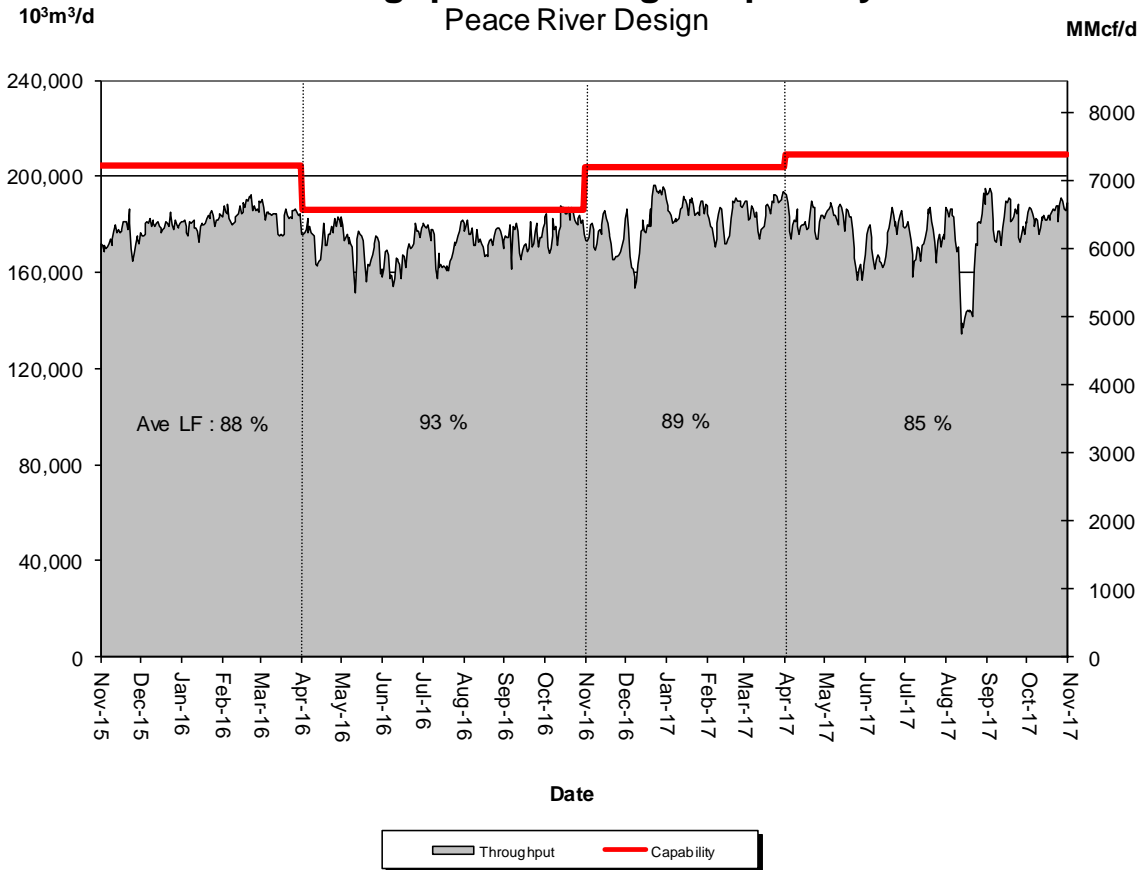


% Design Capability Utilization						
Design Capability	May	Jun	Jul	Aug	Sep	Oct
	76%	70%	73%	70%	77%	79%

# DESIGN CAPABILITY UTILIZATION PEACE RIVER DESIGN (Upper, Central and Lower Peace River)



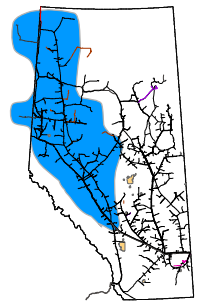
## Throughput vs. Design Capability Peace River Design



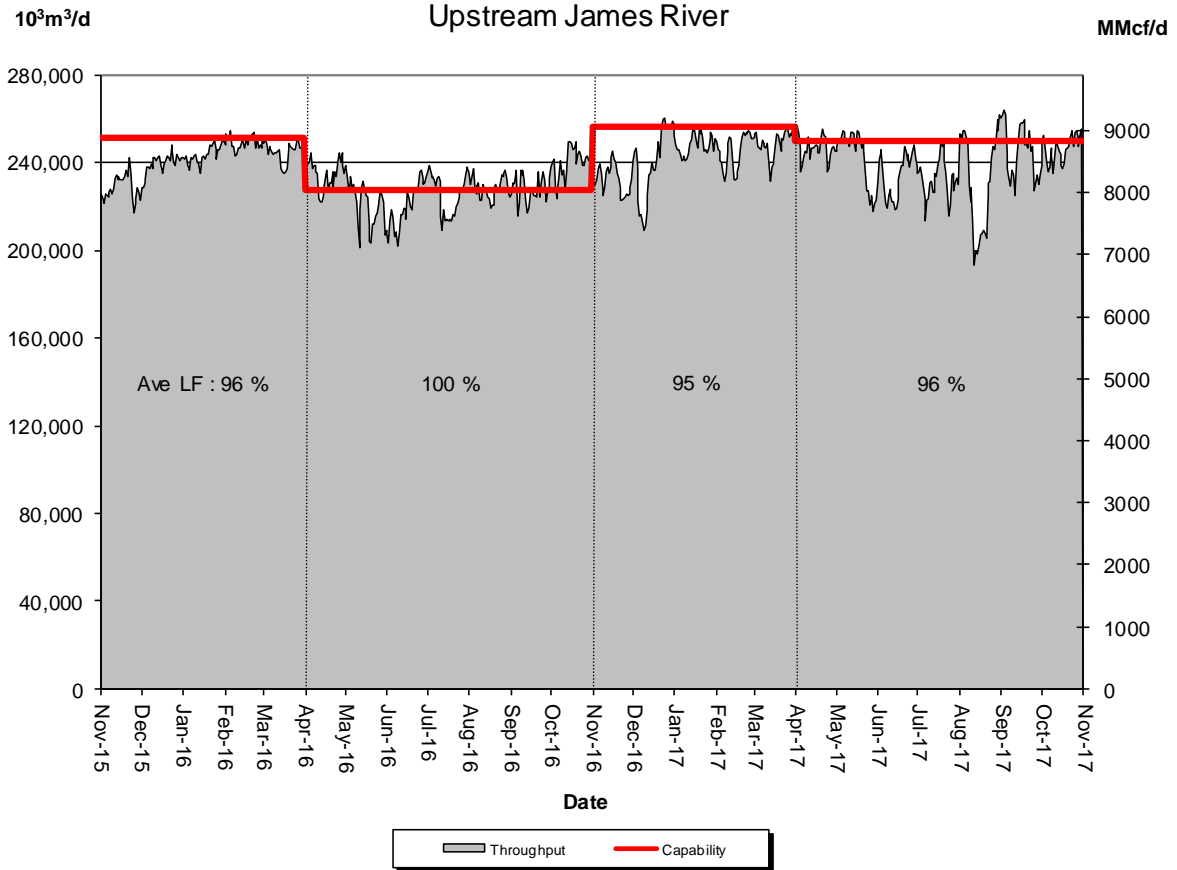
% Design Capability Utilization						
Design Capability	May	Jun	Jul	Aug	Sep	Oct
	85%	83%	83%	80%	87%	88%

# DESIGN CAPABILITY UTILIZATION UPSTREAM JAMES RIVER

(Edson Mainline, Peace River Design and Marten Hills)

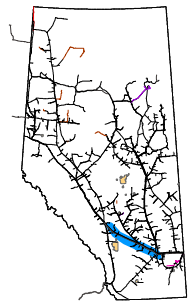


## Throughput vs. Design Capability Upstream James River

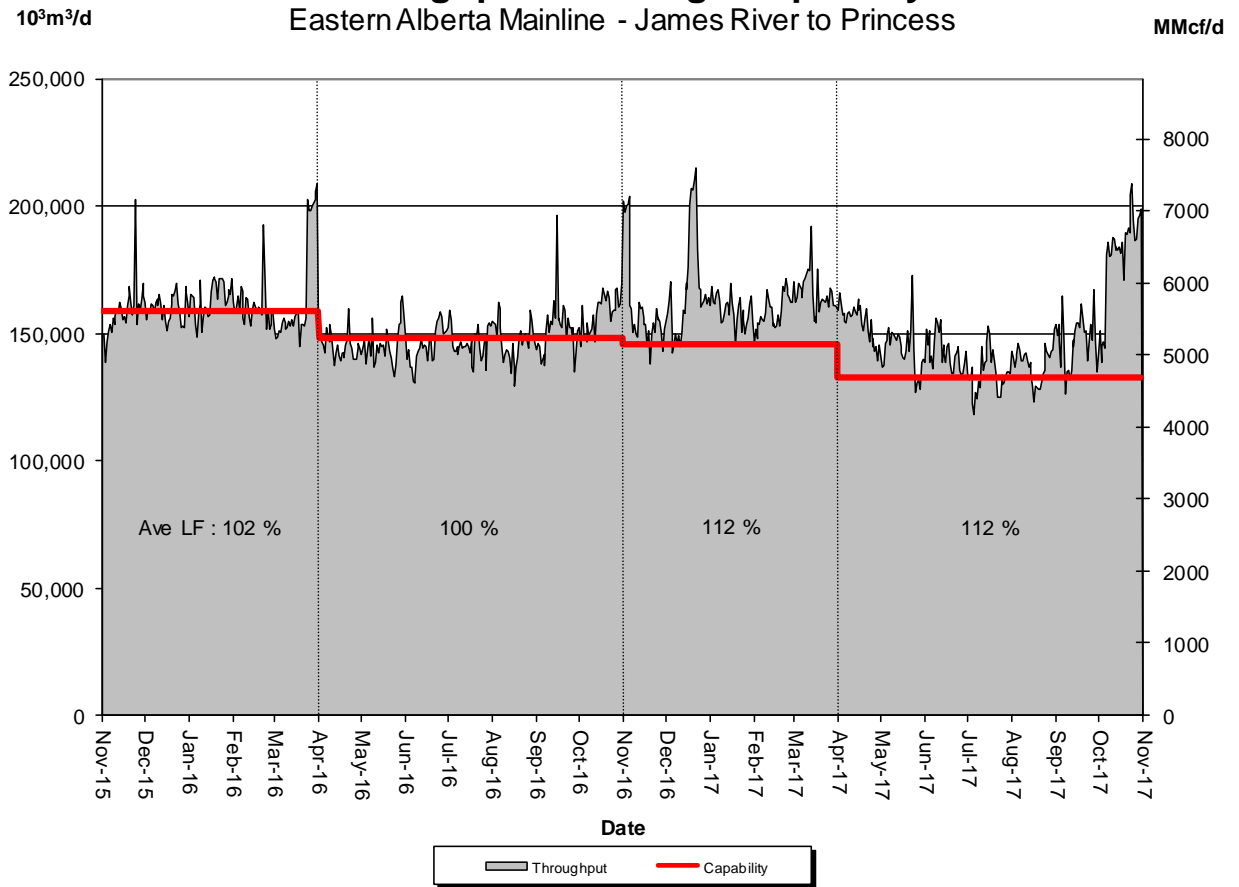


% Design Capability Utilization						
Design Capability	May	Jun	Jul	Aug	Sep	Oct
	97%	94%	93%	92%	98%	98%

# DESIGN CAPABILITY UTILIZATION EASTERN ALBERTA MAINLINE (James River to Princess)



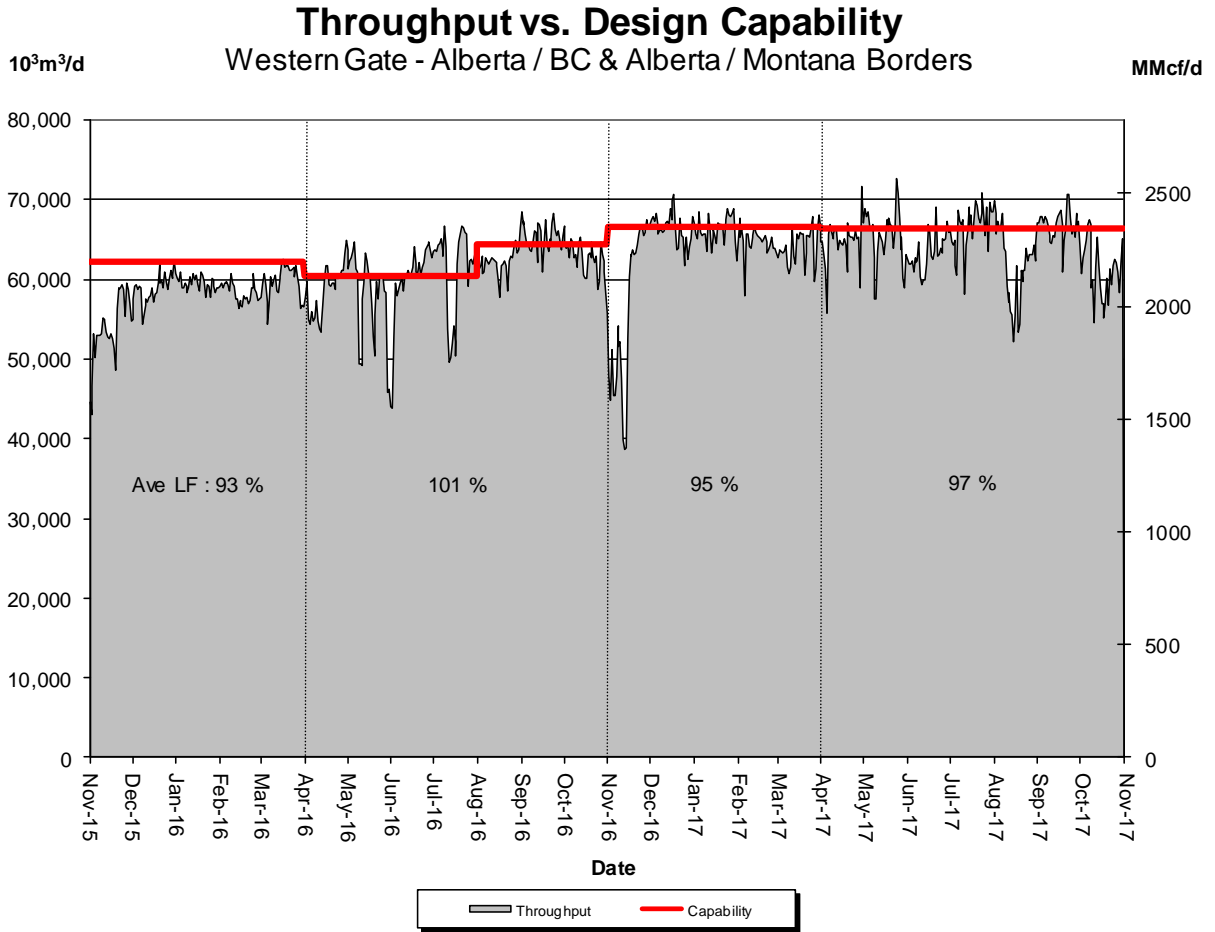
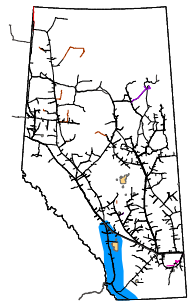
**Throughput vs. Design Capability**  
Eastern Alberta Mainline - James River to Princess



% Design Capability Utilization						
Design Capability	May	Jun	Jul	Aug	Sep	Oct
	108%	108%	101%	104%	111%	135%

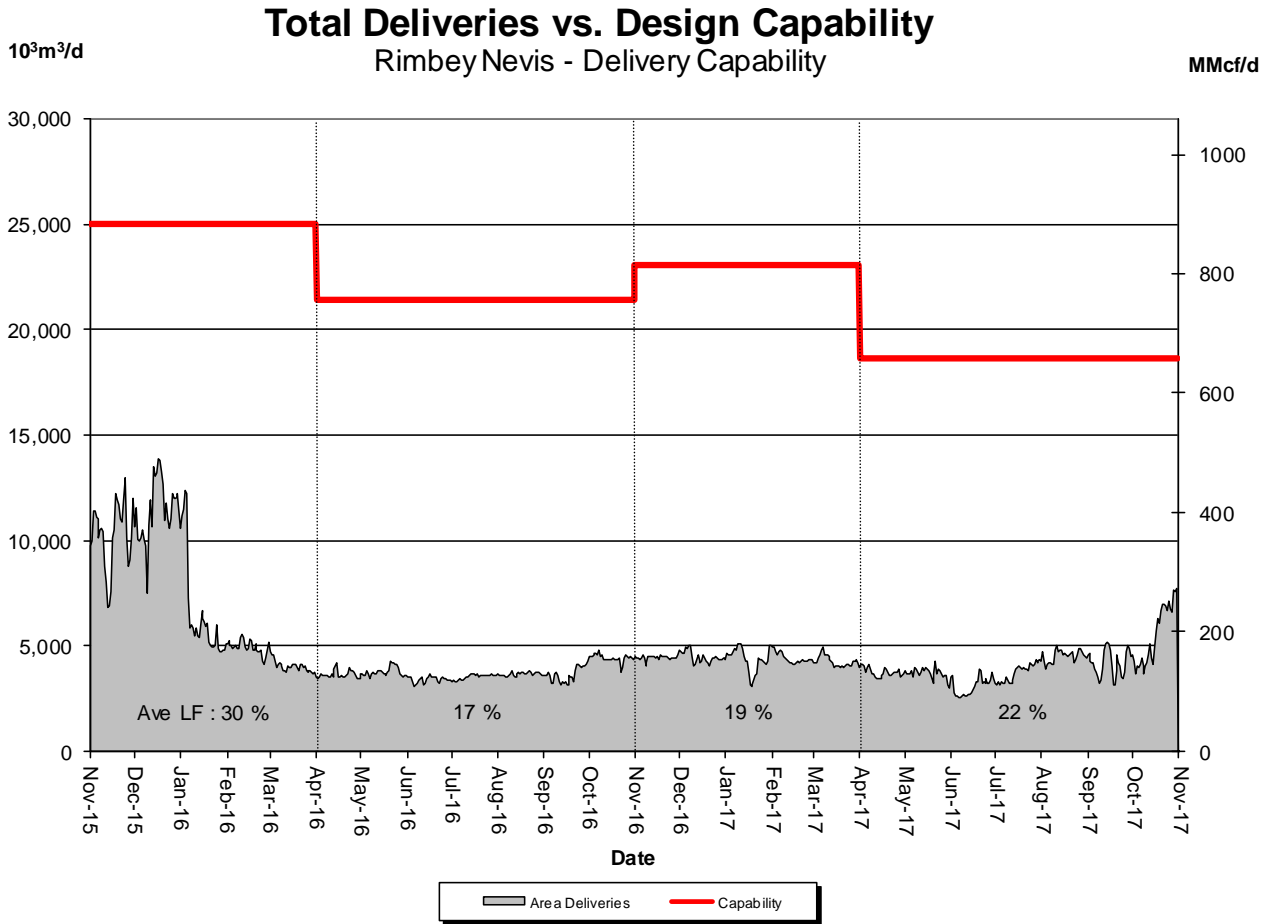
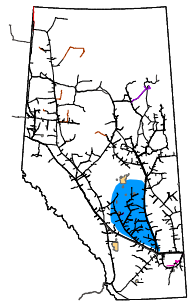


# DESIGN CAPABILITY UTILIZATION WESTERN ALBERTA MAINLINE (Alberta/B.C. and Alberta/Montana Borders)



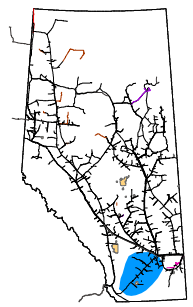
% Design Capability Utilization						
Design Capability	May	Jun	Jul	Aug	Sep	Oct
	98%	95%	100%	93%	101%	92%

# DESIGN CAPABILITY UTILIZATION RIMBEY-NEVIS – FLOW WITHIN

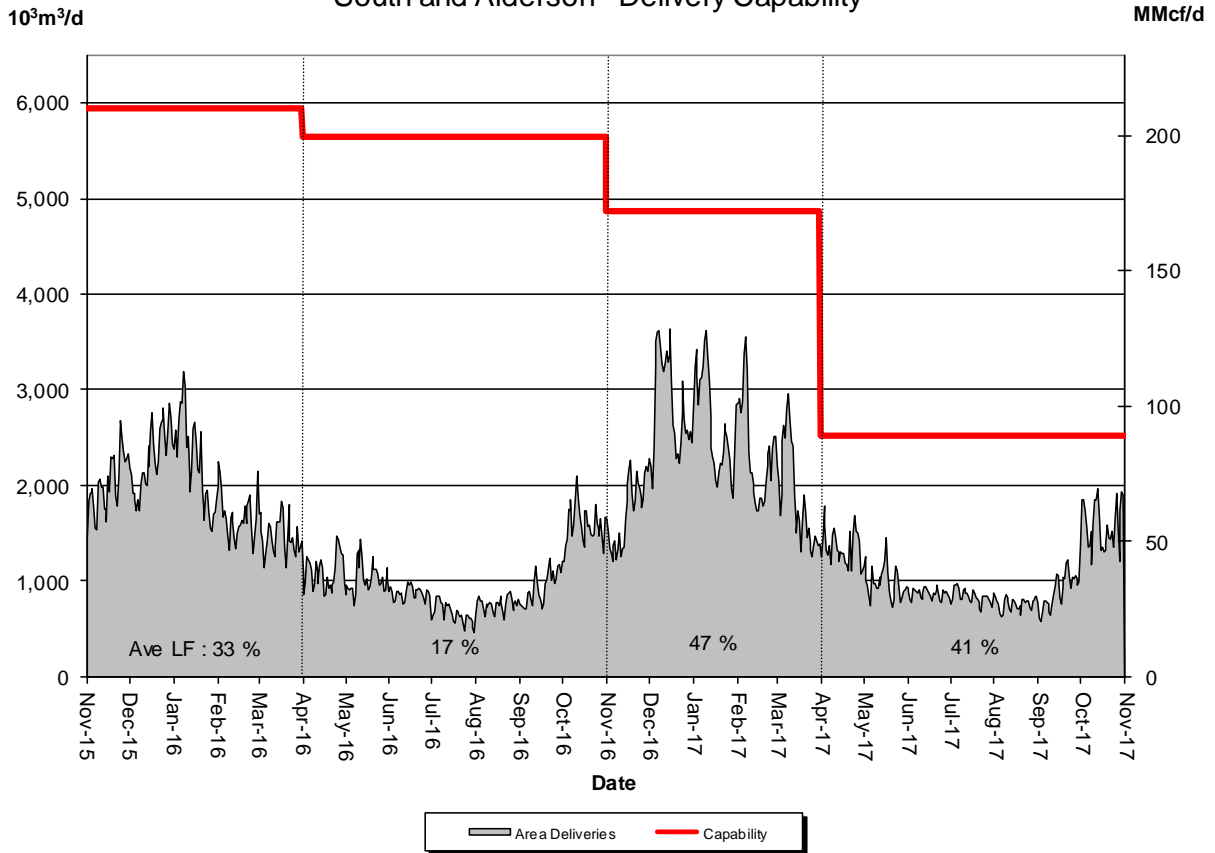


% Design Capability Utilization						
Design Capability	May	Jun	Jul	Aug	Sep	Oct
	20%	16%	20%	24%	22%	29%

# DESIGN CAPABILITY UTILIZATION SOUTH and ALDERSON – FLOW WITHIN

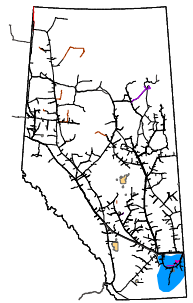


**Total Deliveries vs. Design Capability**  
South and Alderson - Delivery Capability

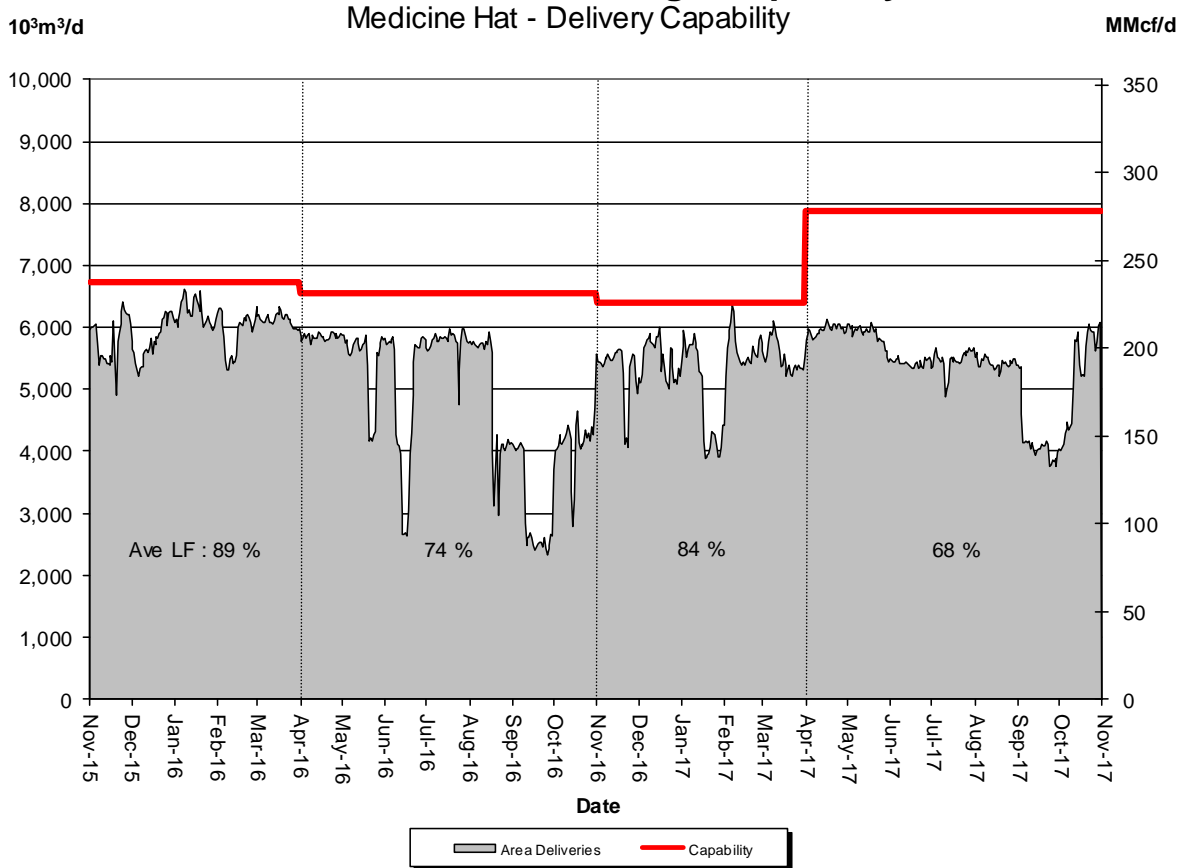


% Design Capability Utilization						
Design Capability	May	Jun	Jul	Aug	Sep	Oct
	39%	34%	33%	30%	35%	62%

# DESIGN CAPABILITY UTILIZATION MEDICINE HAT – FLOW WITHIN

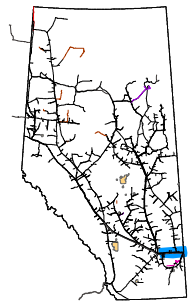


## Total Deliveries vs. Design Capability

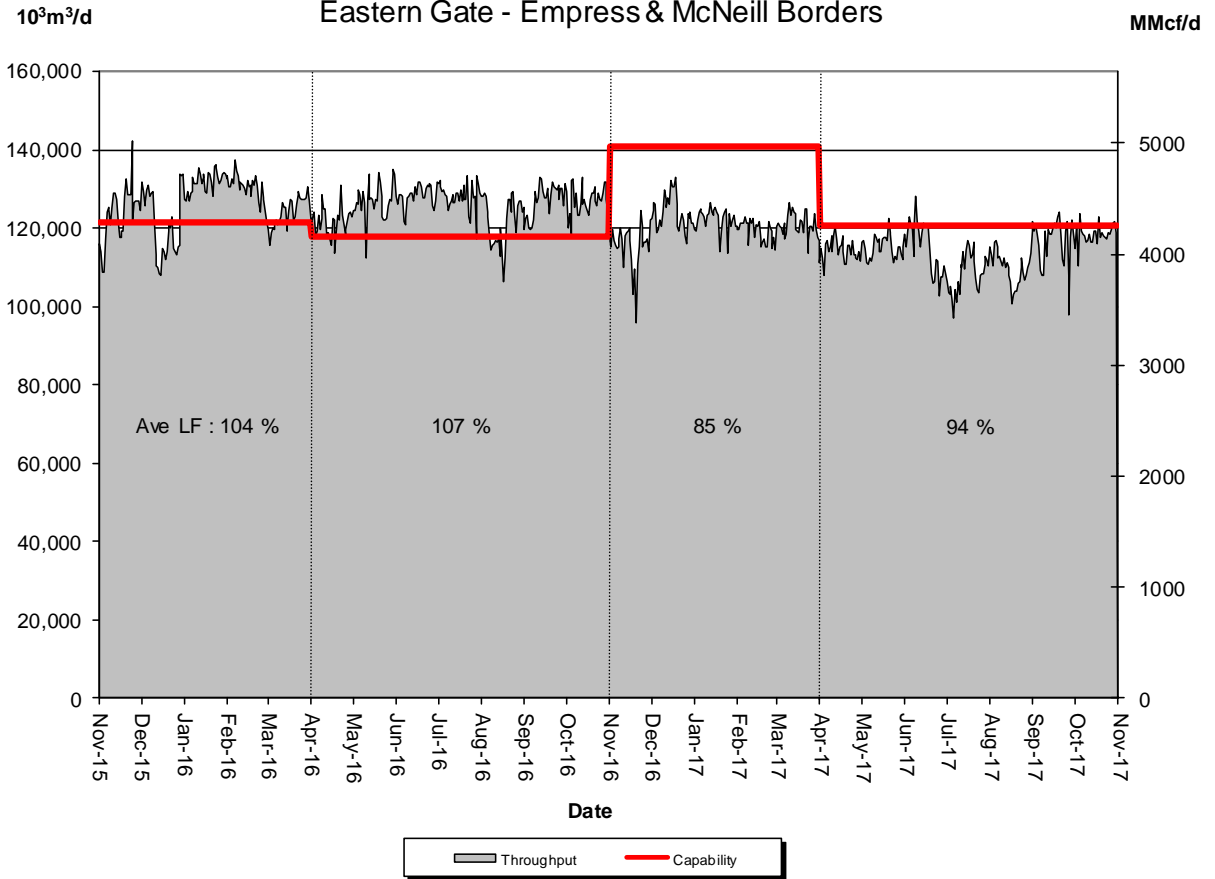


% Design Capability Utilization						
Design Capability	May	Jun	Jul	Aug	Sep	Oct
	75%	69%	69%	69%	53%	67%

# DESIGN CAPABILITY UTILIZATION EASTERN ALBERTA MAINLINE (Princess to Empress / McNeill)

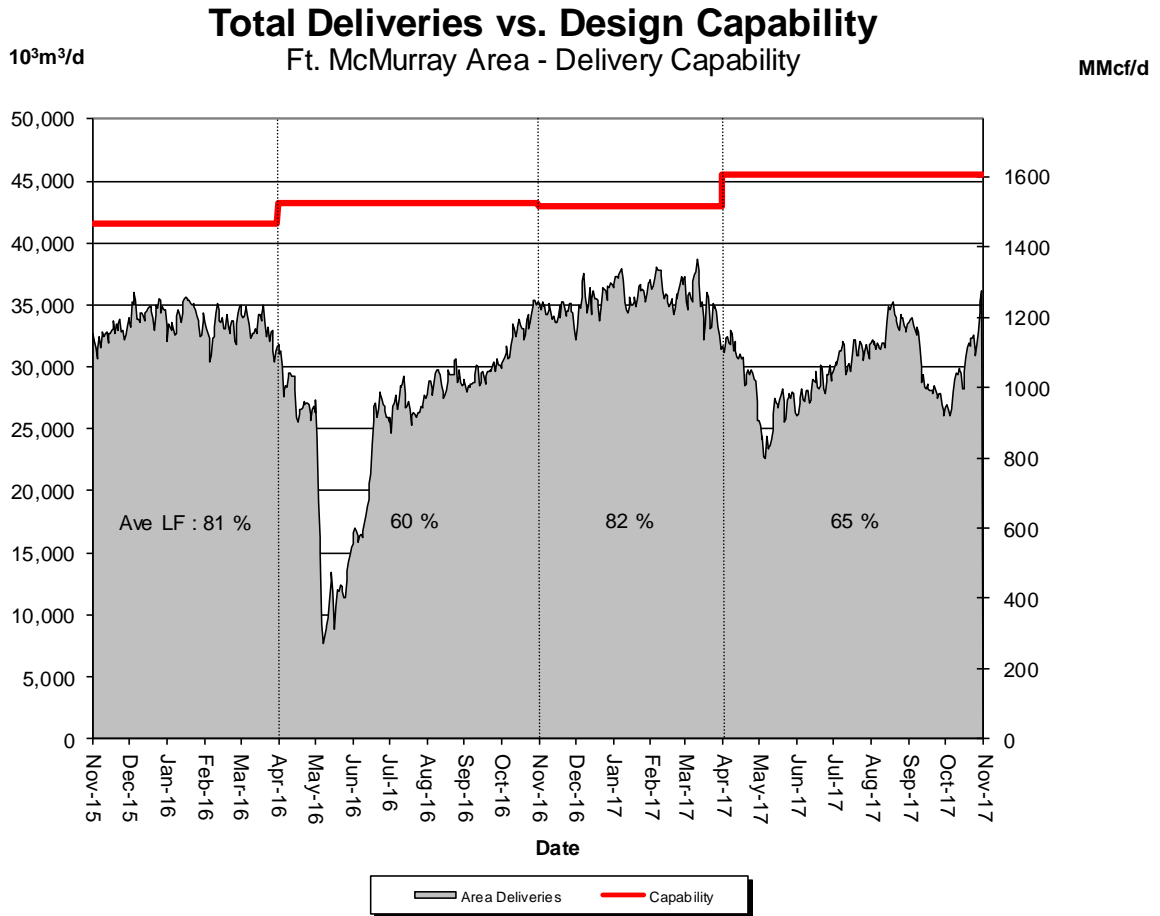
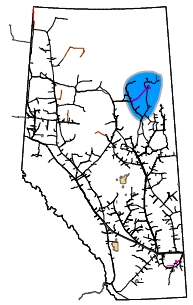


**Throughput vs. Design Capability**  
Eastern Gate - Empress & McNeill Borders



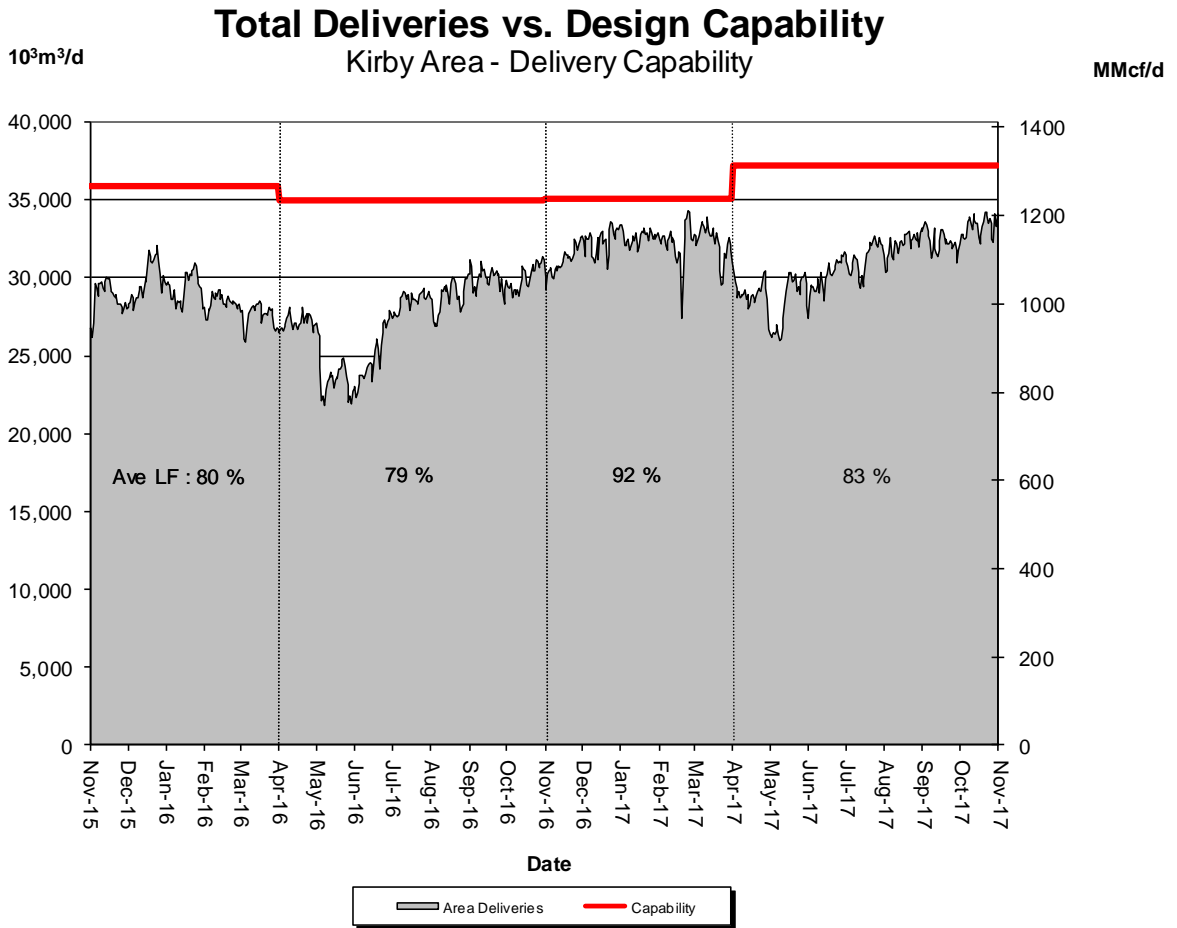
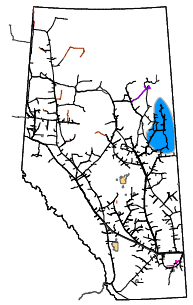
% Design Capability Utilization						
Design Capability	May	Jun	Jul	Aug	Sep	Oct
	95%	95%	90%	91%	97%	98%

# DESIGN CAPABILITY UTILIZATION FT. McMURRAY AREA – FLOW WITHIN



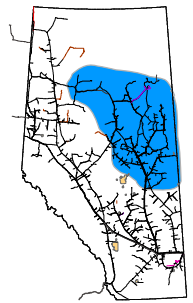
% Design Capability Utilization						
Design Capability	May	Jun	Jul	Aug	Sep	Oct
	57%	62%	68%	73%	65%	66%

# DESIGN CAPABILITY UTILIZATION KIRBY AREA – FLOW WITHIN



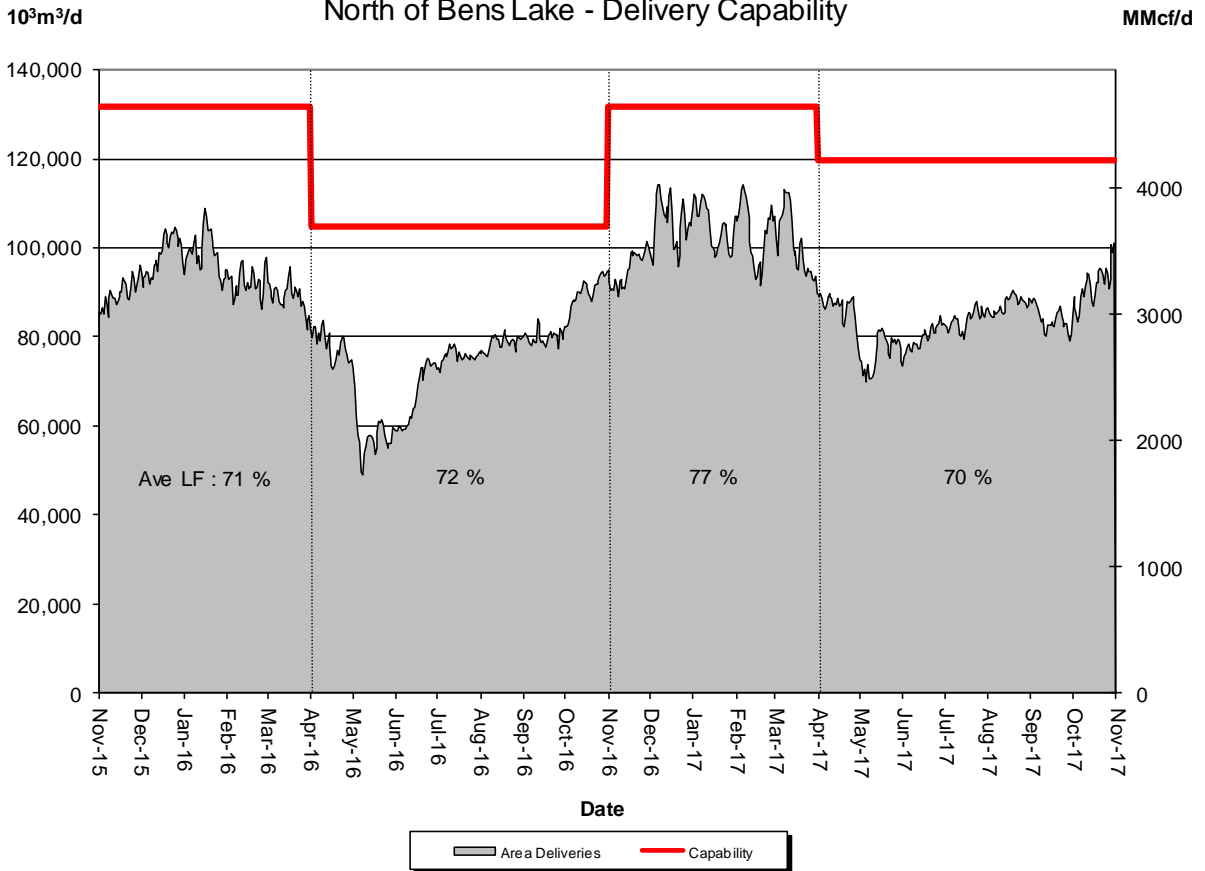
% Design Capability Utilization						
Design Capability	May	Jun	Jul	Aug	Sep	Oct
	76%	81%	84%	86%	87%	90%

# DESIGN CAPABILITY UTILIZATION NORTH OF BENS LAKE – FLOW WITHIN



## Total Deliveries vs. Design Capability

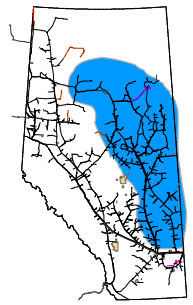
North of Bens Lake - Delivery Capability



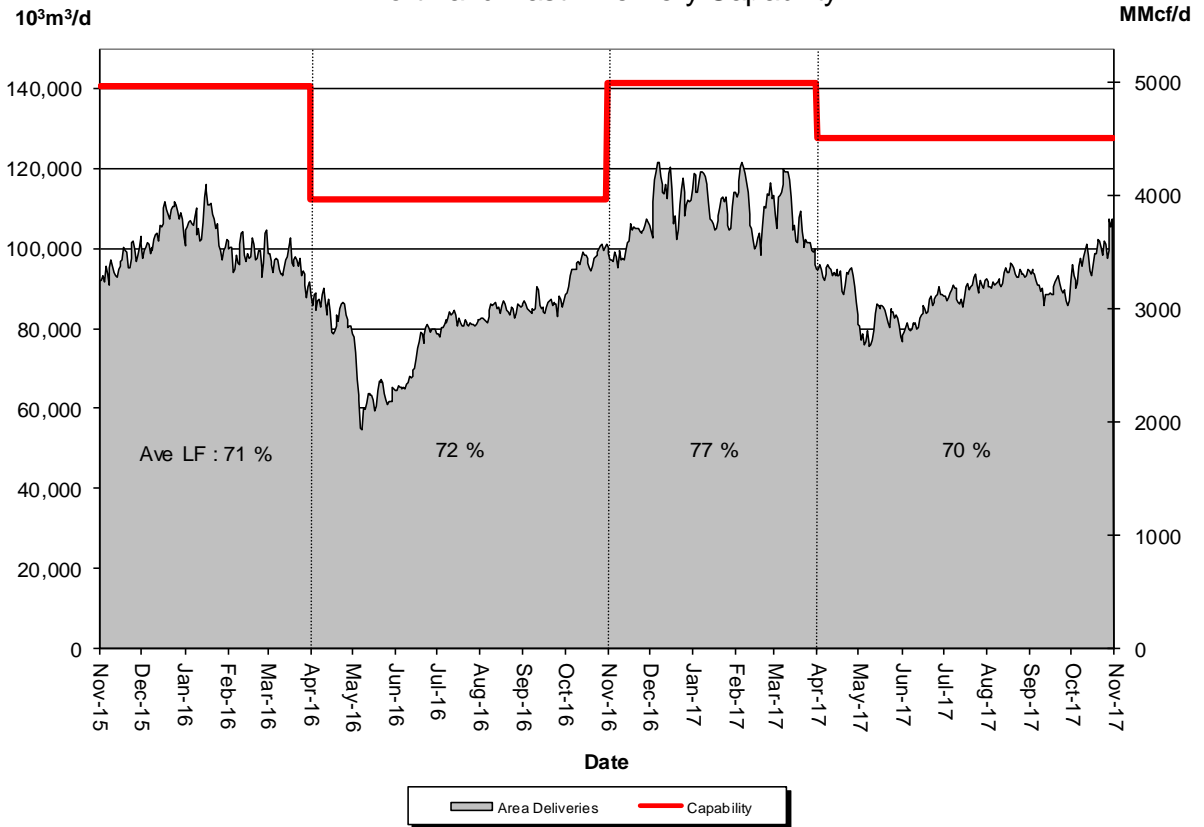
% Design Capability Utilization						
Design Capability	May	Jun	Jul	Aug	Sep	Oct
	64%	67%	70%	73%	70%	77%



# DESIGN CAPABILITY UTILIZATION NORTH & SOUTH OF BENS LAKE – FLOW WITHIN



**Total Deliveries vs. Design Capability**  
North and East - Delivery Capability



% Design Capability Utilization						
Design Capability	May	Jun	Jul	Aug	Sep	Oct
	64%	65%	70%	73%	71%	77%

# FUTURE FIRM TRANSPORTATION SERVICE AVAILABILITY

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*Please consult with your Customer Account Manager to discuss your Firm Transportation Service needs.*

## **Estimated Firm Transportation Service Availability**

**Please refer to the following web site for  
current FT-R / FT-D Availability Maps:**

<http://www.tccustomerexpress.com/2801.html>

# HOW TO USE THIS REPORT

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## Overview

This report contains recent historical information on the level of utilization of firm transportation Service Agreements on the NGTL system, relative usage of interruptible service, level of utilization of design pipeline capacity.

Data is reported either by *Pipeline Segment* (26 segments make up the system, without 23 & 27) or *Design Area* (13 Design Areas for the system). Maps of both are included in the reference section.

## Firm Transportation Service Contract Utilization

The Firm Transportation Service Contract Utilization report shows the percent utilization for each of the 26 NGTL pipeline segments and 3 major export delivery points comprising the total system. The utilization data is based on billed monthly volumes. Percent utilization is calculated as firm transportation service and firm transportation service + interruptible service divided by applicable receipt or delivery contract level. Historical Data involving billed volumes lags the current date by approximately two months.

## Design Capability Utilization

The load factor/segment flow graphs show actual flow versus design capability values for various NGTL system areas. The graphs also show seasonal (winter/summer) design capability and average load factors (LF) for each season. Load factors are obtained by comparing the receipt, delivery, or throughput flow condition in each of the Alberta design areas against the corresponding design capability. Consequently, design capability utilization is measured as Average Actual Flow / Seasonal Design Capability. Data used in these reports lags the current date by at least one month.

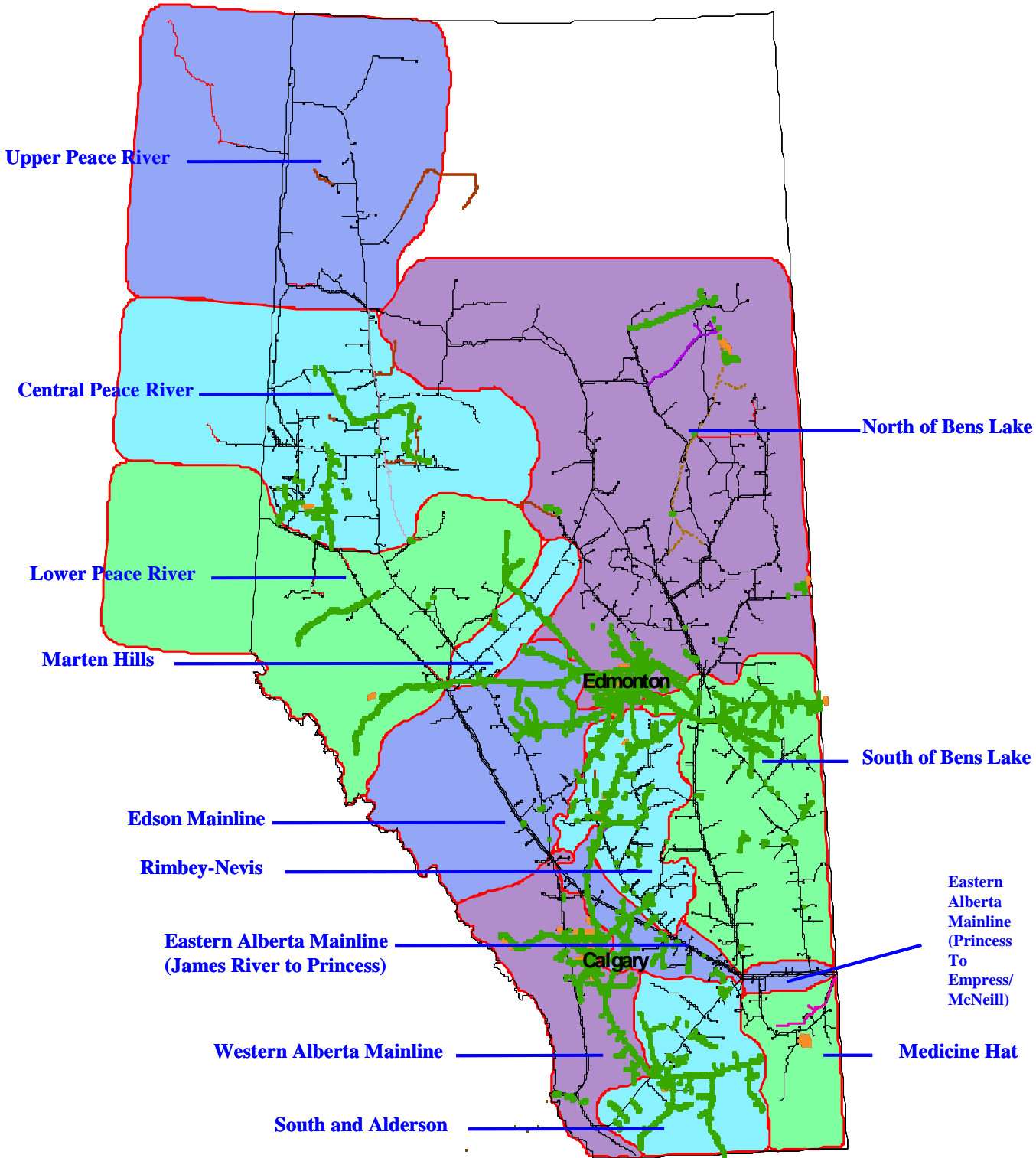
Design Flow Capability utilization is a function of several factors that include:

- Total market demand for Alberta natural gas.
- Seasonal changes in market demand for Alberta natural gas.
- Receipt nominating practices of customers individually and in aggregate to meet that level of demand.
- Scheduled maintenance which could effect actual flow requirement in a design area at any given time.
- Design assumptions used in determining required segment flow requirement.

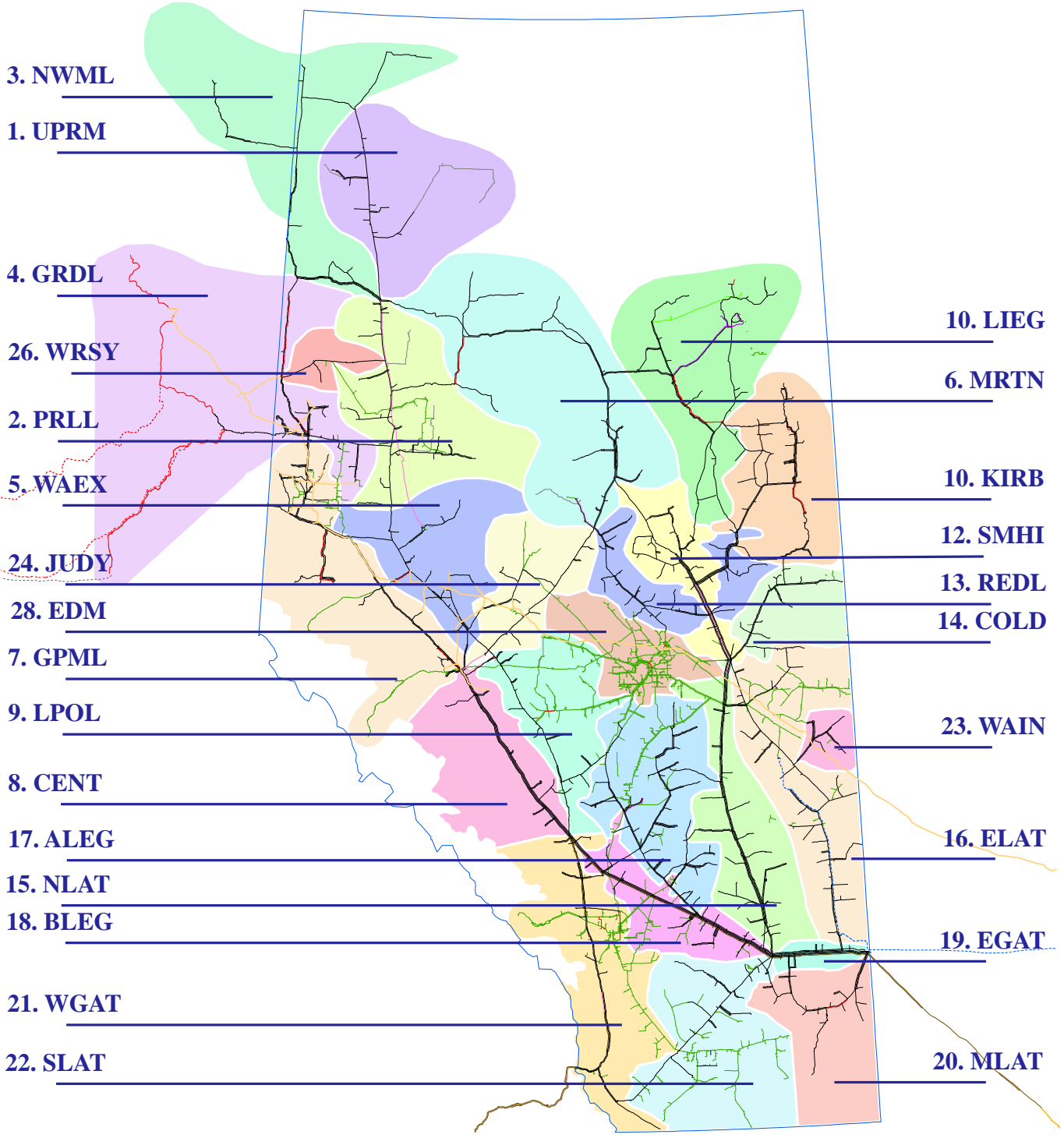
## Future Firm Transportation Service Availability

The Future Firm Transportation Service Availability report presents guidelines and timing for all future firm transportation service requests.

# NGTL Design Areas



(Last updated Nov 2011)



**Last Update May, 2015**

# DEFINITION OF TERMS

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## *Design Capability Utilization*

### *Actual Flow*

The amount of gas flowing within or out of the design area.

### *Design Capability*

The volume of gas that can be transported from the design area on the pipeline system considering given design assumptions.

### *AVGLF (Average Load Factor)*

The ratio between average *Actual Flow* and *Design Capability*. It is calculated for every design season (summer/winter) as shown on the graphs.

### *Intra NGTL System Deliveries*

The amount of sales gas flowing off the system within an area.

### *Receipt Flow*

Aggregate of actual receipts within an area and the *Actual Flow* of the upstream area.

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## *Other*

### *System Load Factor*

The volume weighted average of the *Average Load Factor (AVGLF)* of all design areas on the system

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