

# SYSTEM UTILIZATION MONTHLY REPORT

for the month ending

July 2016

<http://www.transcanada.com/customerexpress/2885.html>

*Published date:*

**September 15<sup>th</sup>, 2016**

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## Highlights This Month:

- No highlights this month

NOVA Gas Transmission Ltd.

# TABLE OF CONTENTS

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<b><u>MONTHLY FEATURES</u></b>	<b>PAGE</b>
Firm Transportation Service Contract Utilization .....	3
Design Capability Utilization	
Upper Peace River .....	4
Upper & Central Peace River .....	5
Peace River Design .....	6
Upstream James River .....	7
Eastern Alberta Mainline (James River to Princess) .....	8
Western Alberta Mainline (AB/BC & AB/Montana Borders) .....	9
Rimbey Nevis – Flow Within .....	10
South & Alderson – Flow Within .....	11
Medicine Hat - Flow Within .....	12
Eastern Alberta Mainline (Princess to Empress/McNeill) .....	13
Ft. McMurray Area – Flow Within.....	14
Kirby Area – Flow Within.....	15
North of Bens Lake – Flow Within .....	16
North & South of Bens Lake – Flow Within.....	17
Future Firm Transportation Service Availability.....	18
How to Use This Report .....	19
<b><u>REFERENCES</u></b>	
NGTL Design Areas Map .....	20
NGTL Pipeline Segments Map .....	21
Definition of Terms .....	22

If you have any questions on the content of this report, contact Winston Cao at (403) 920-5315 or via fax at (403) 920-2357.

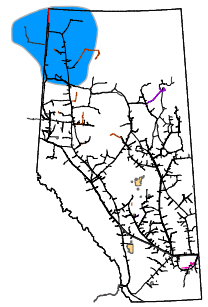
# FIRM TRANSPORTATION SERVICE<sup>1</sup> CONTRACT UTILIZATION<sup>3</sup>

By NGTL Pipeline Segments  
July 2016

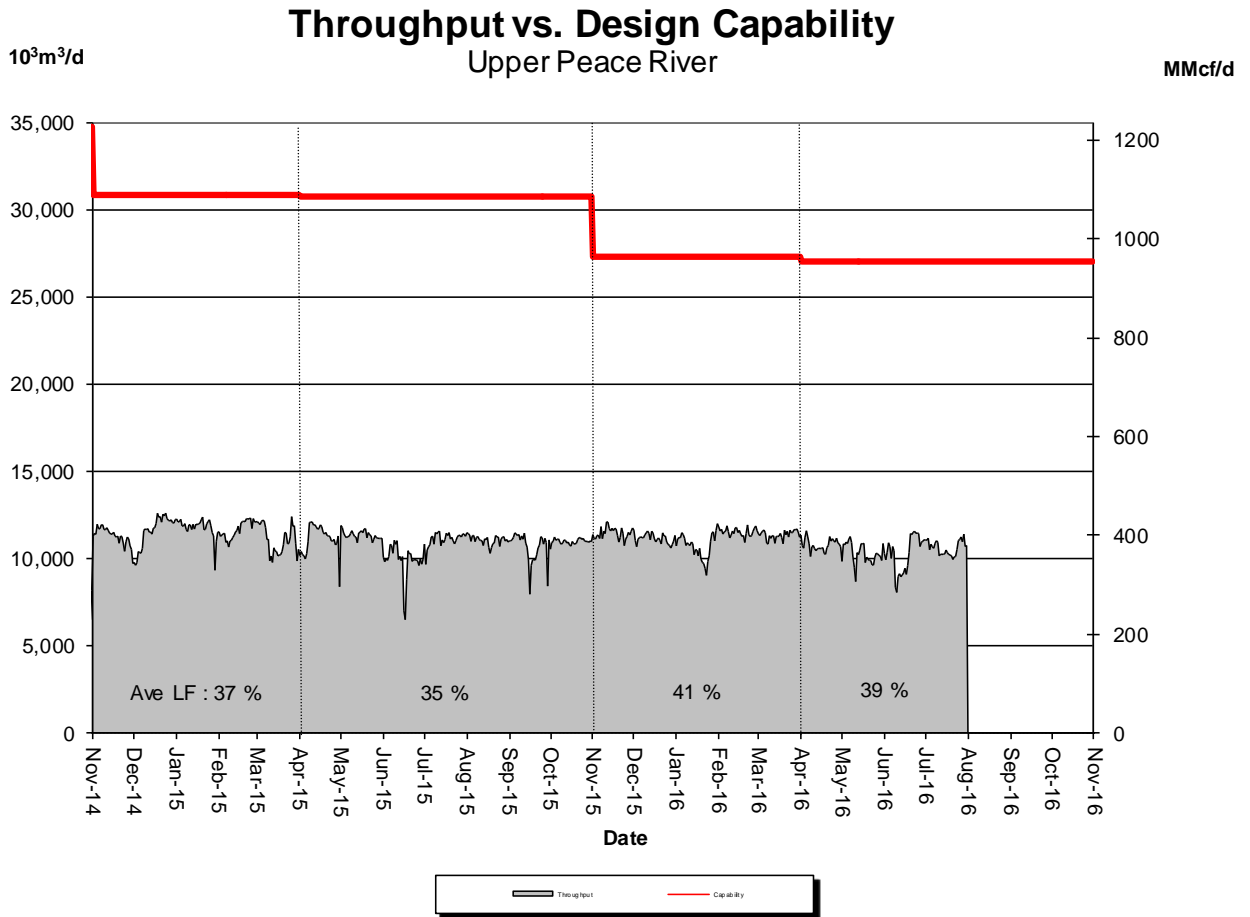
Segment	Contract	Delivery		Receipt	
		Utilization	Jul CD (TJ/d)	Utilization	Jul CD (MMcf/d)
UPRM	FT	0%	3.3	84%	61
	FT + IT <sup>2</sup>	16%		85%	
PRLL	FT	28%	41.9	86%	94
	FT + IT	29%		90%	
NWML	FT	49%	7.4	84%	401
	FT + IT	49%		85%	
GRDL	FT	21%	8.9	80%	2,065
	FT + IT	22%		81%	
WRSY	FT	0%	0.0	80%	23
	FT + IT	0%		86%	
WAEX	FT	10%	13.9	77%	767
	FT + IT	30%		78%	
JUDY	FT	32%	28.8	78%	56
	FT + IT	36%		83%	
GPML	FT	22%	165.1	80%	4,168
	FT + IT	27%		80%	
CENT	FT	0%	0.0	85%	1,585
	FT + IT	0%		86%	
LPOL	FT	27%	72.1	87%	772
	FT + IT	30%		93%	
WGAT	FT	67%	3,656.8	90%	303
	FT + IT	71%		95%	
ALEG	FT	32%	394.7	89%	834
	FT + IT	34%		99%	
SLAT	FT	13%	184.7	87%	213
	FT + IT	13%		102%	
MLAT	FT	76%	279.3	73%	196
	FT + IT	78%		80%	
BLEG	FT	51%	132.7	89%	561
	FT + IT	52%		97%	
EGAT	FT	96%	3,824.0	69%	34
	FT + IT	128%		72%	
MRTN	FT	15%	29.3	57%	50
	FT + IT	16%		107%	
LIEG	FT	58%	1,829.0	43%	33
	FT + IT	59%		123%	
KIRB	FT	70%	1,592.5	74%	43
	FT + IT	71%		102%	
SMHI	FT	33%	12.1	83%	27
	FT + IT	33%		119%	
REDL	FT	0%	19.0	52%	32
	FT + IT	1%		117%	
COLD	FT	45%	171.8	61%	21
	FT + IT	56%		93%	
EDM	FT	32%	1,876.6	86%	41
	FT + IT	33%		101%	
NLAT	FT	12%	14.9	97%	122
	FT + IT	18%		121%	
WAIN	FT	3%	0.4	76%	7
	FT + IT	3%		109%	
ELAT	FT	73%	270.4	93%	117
	FT + IT	79%		111%	
TOTAL SYSTEM	FT	66%	14,629.4	82%	12,628
	FT + IT	76%		86%	

\*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.

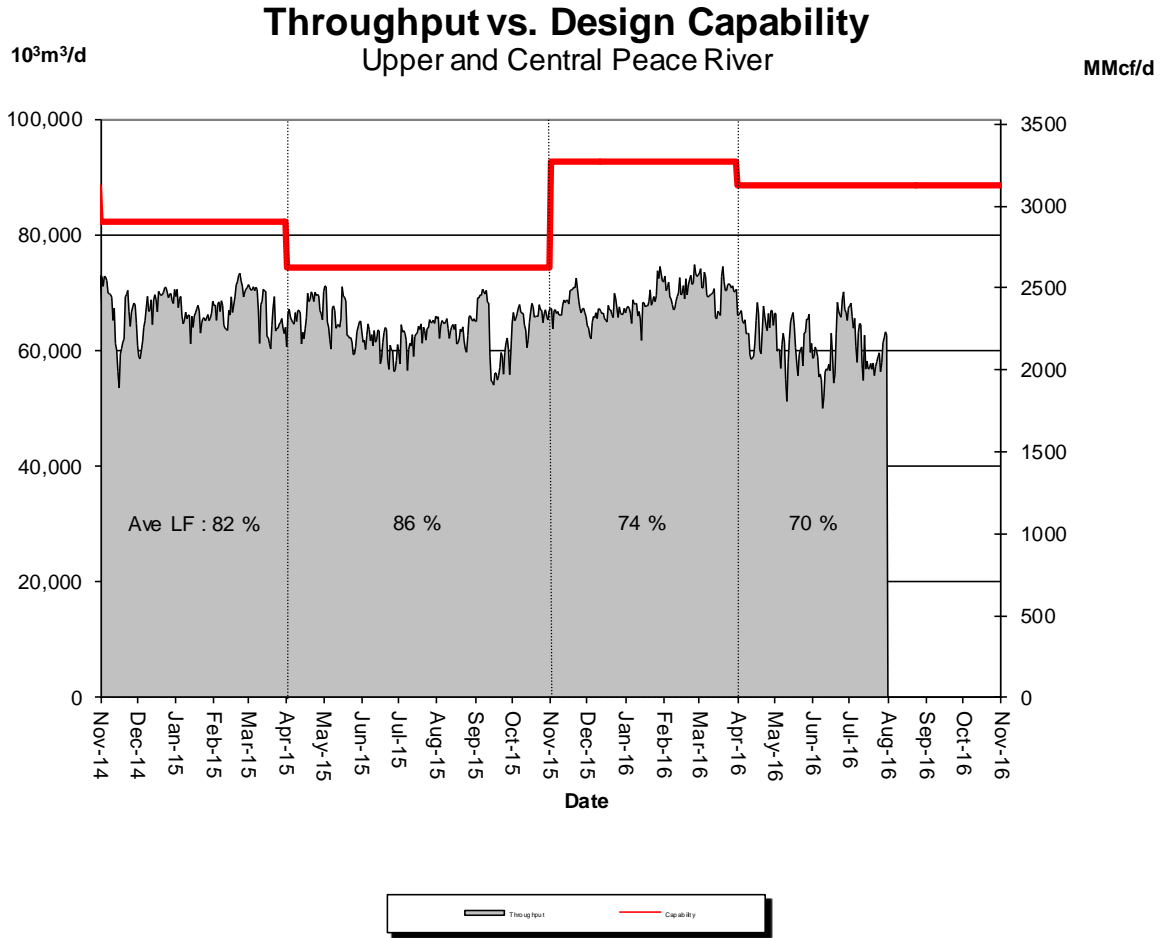
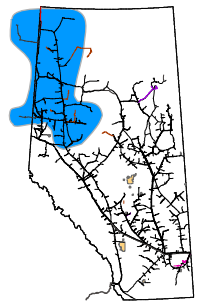


# DESIGN CAPABILITY UTILIZATION UPPER PEACE RIVER



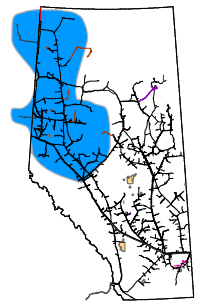
% Design Capability Utilization						
Design Capability	Feb	Mar	Apr	May	Jun	Jul
	42%	42%	40%	38%	38%	39%

# DESIGN CAPABILITY UTILIZATION UPPER and CENTRAL PEACE RIVER

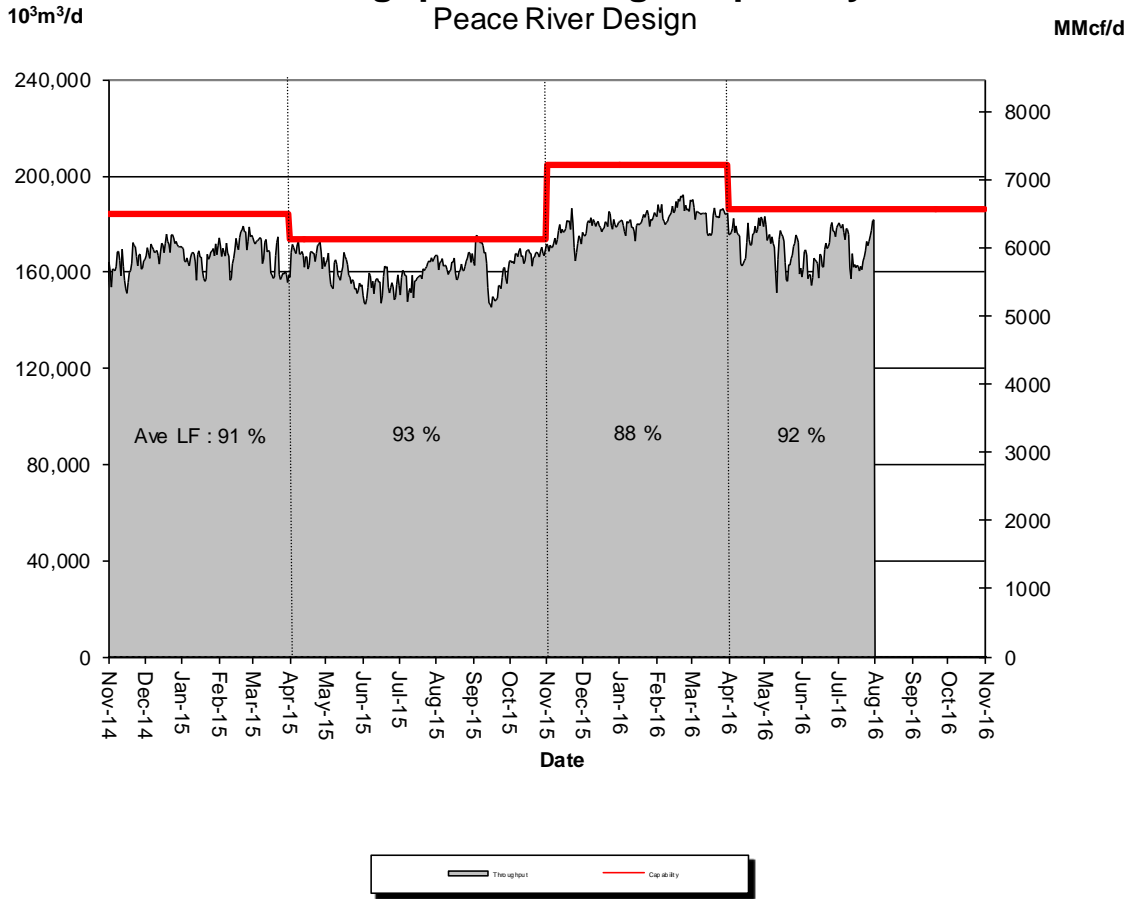


% Design Capability Utilization						
Design Capability	Feb	Mar	Apr	May	Jun	Jul
	76%	76%	72%	69%	68%	68%

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



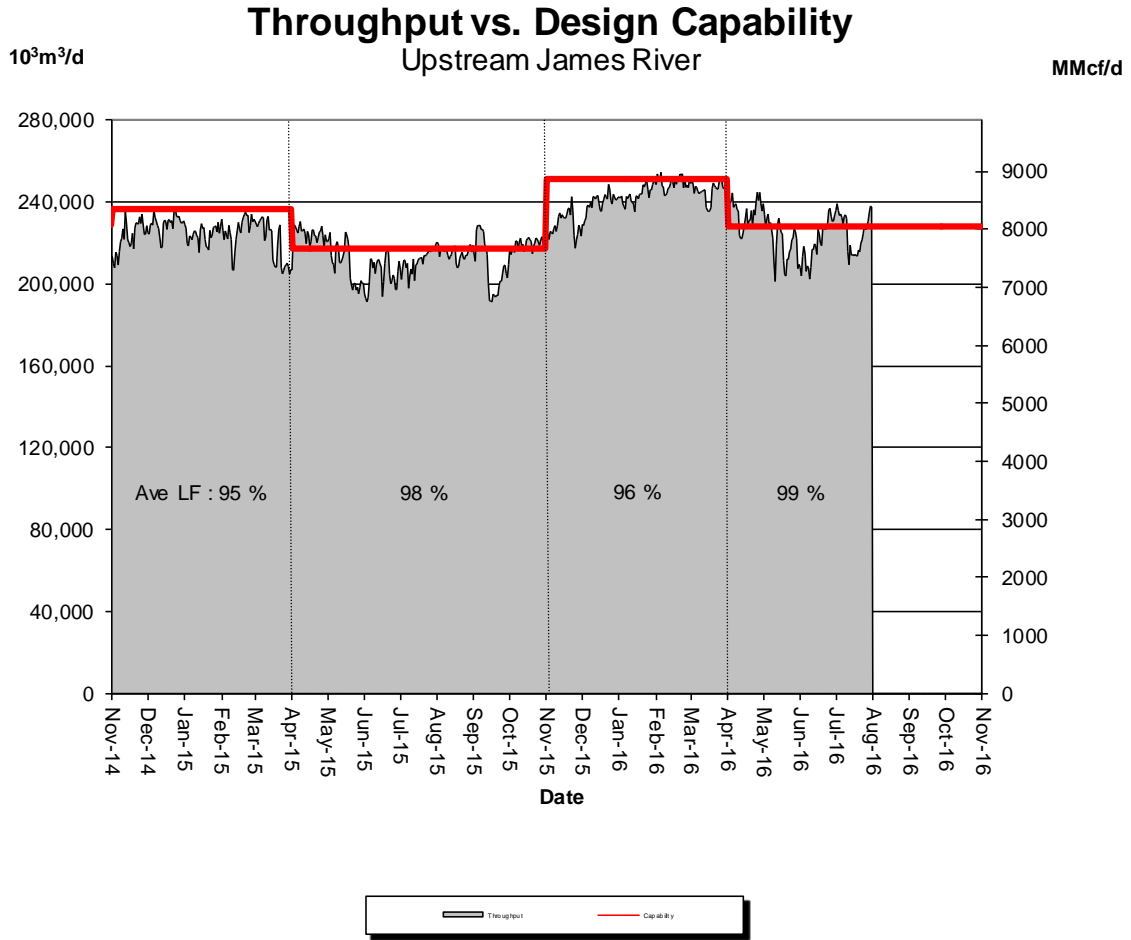
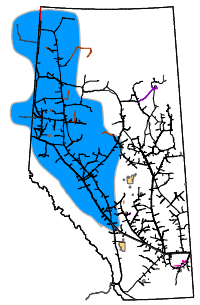
## Throughput vs. Design Capability Peace River Design



% Design Capability Utilization						
Design Capability	Feb	Mar	Apr	May	Jun	Jul
	91%	90%	94%	91%	90%	92%

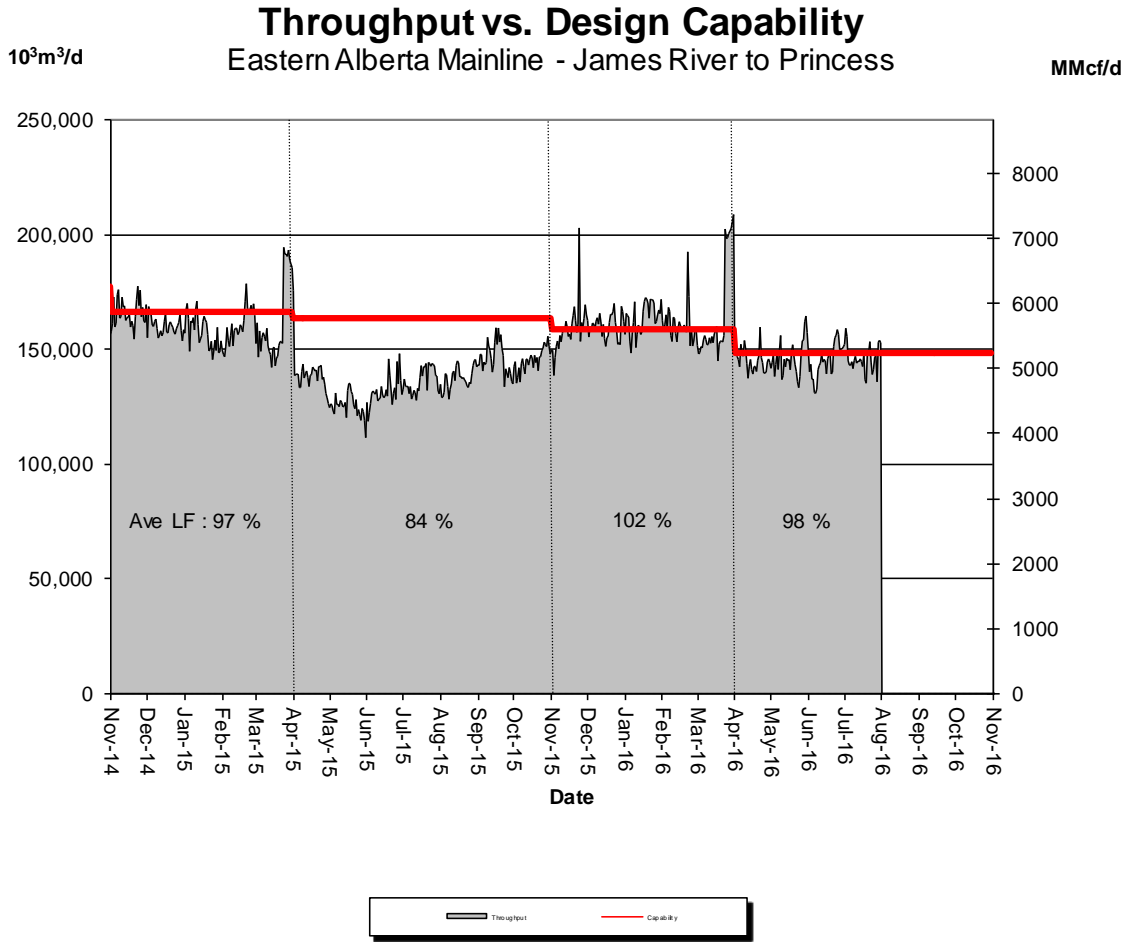
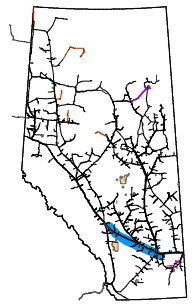
# DESIGN CAPABILITY UTILIZATION UPSTREAM JAMES RIVER

(Edson Mainline, Peace River Design and Marten Hills)



% Design Capability Utilization						
Design Capability	Feb	Mar	Apr	May	Jun	Jul
	99%	98%	103%	97%	97%	99%

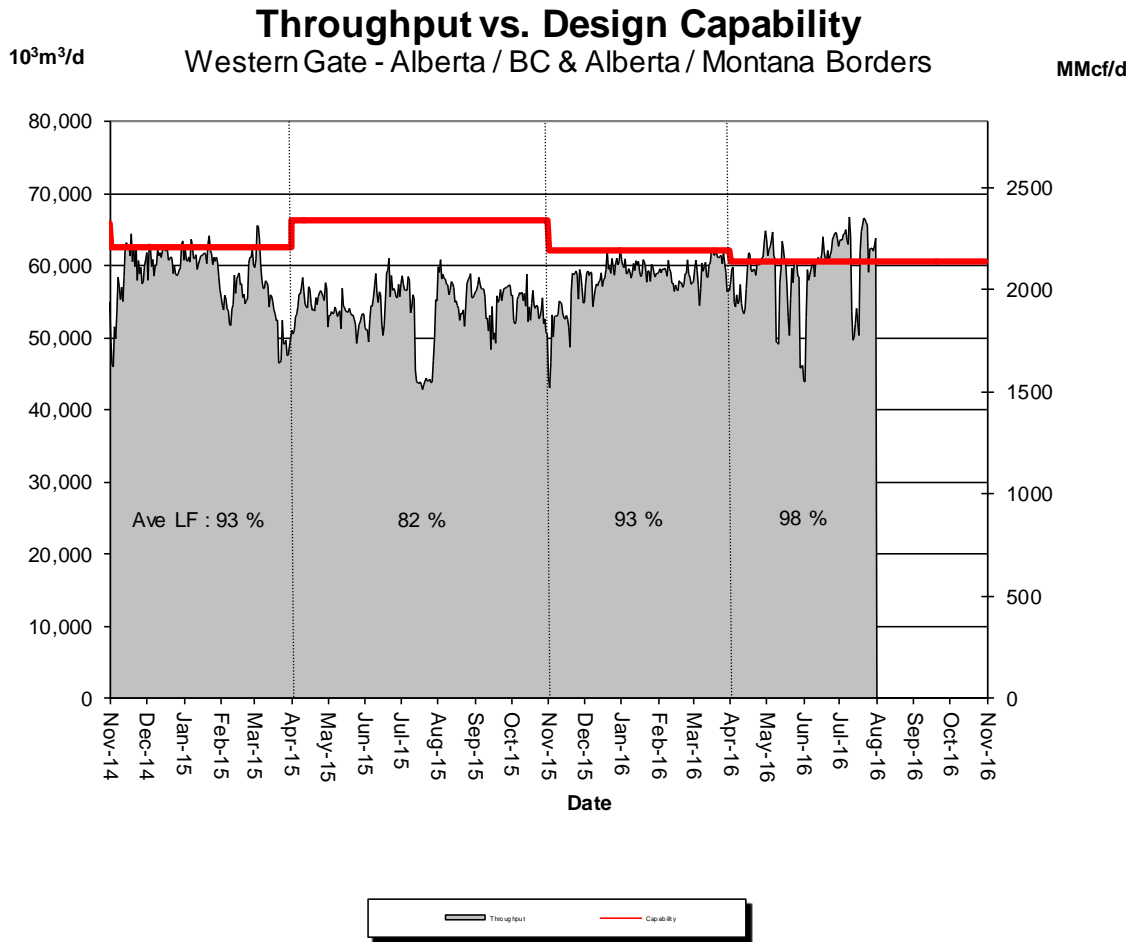
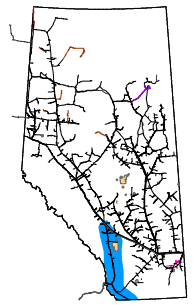
# DESIGN CAPABILITY UTILIZATION EASTERN ALBERTA MAINLINE (James River to Princess)



% Design Capability Utilization						
Design Capability	Feb	Mar	Apr	May	Jun	Jul
	101%	105%	98%	98%	98%	98%

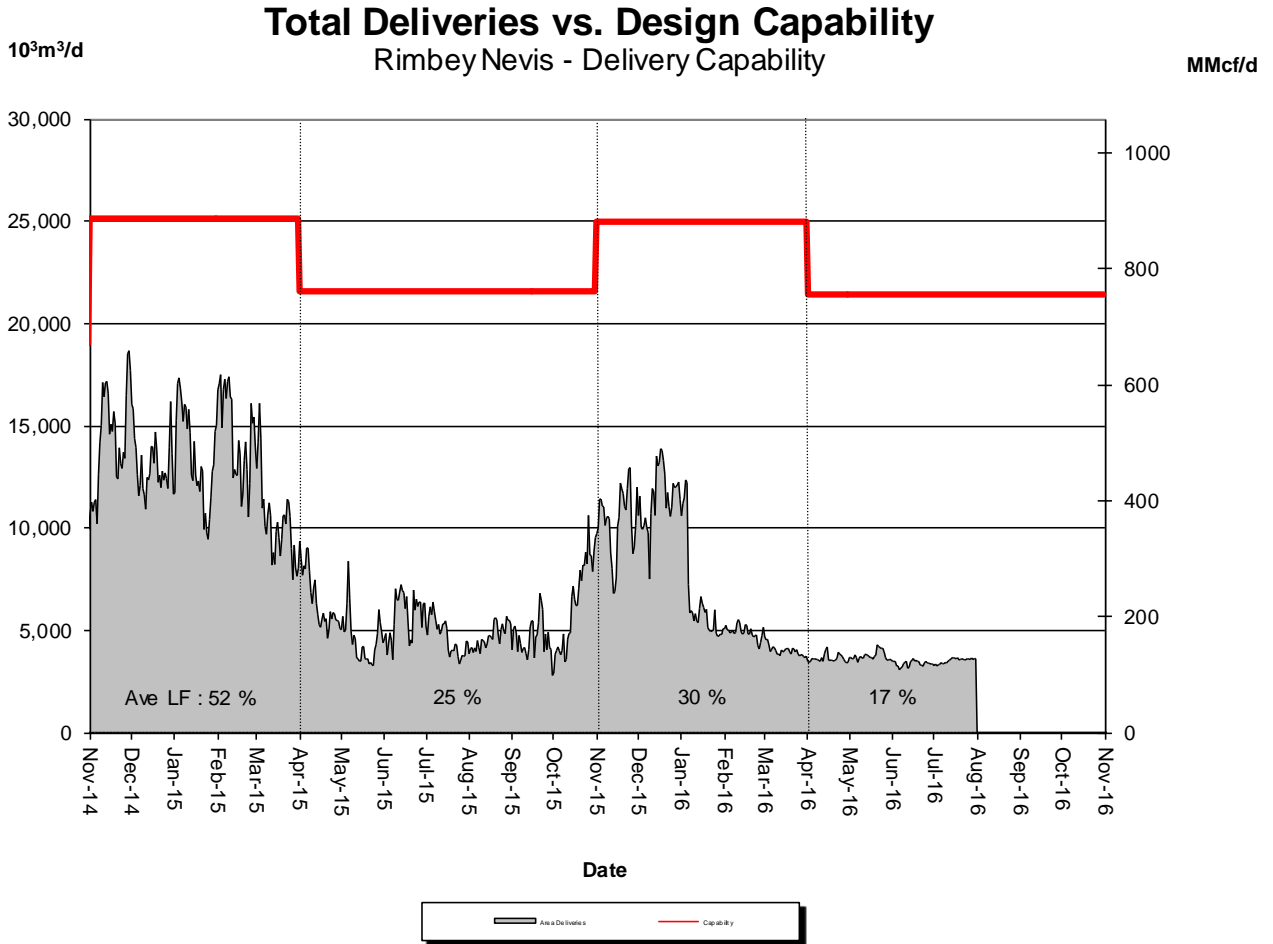
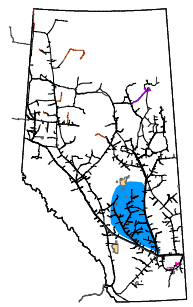


# DESIGN CAPABILITY UTILIZATION WESTERN ALBERTA MAINLINE (Alberta/B.C. and Alberta/Montana Borders)



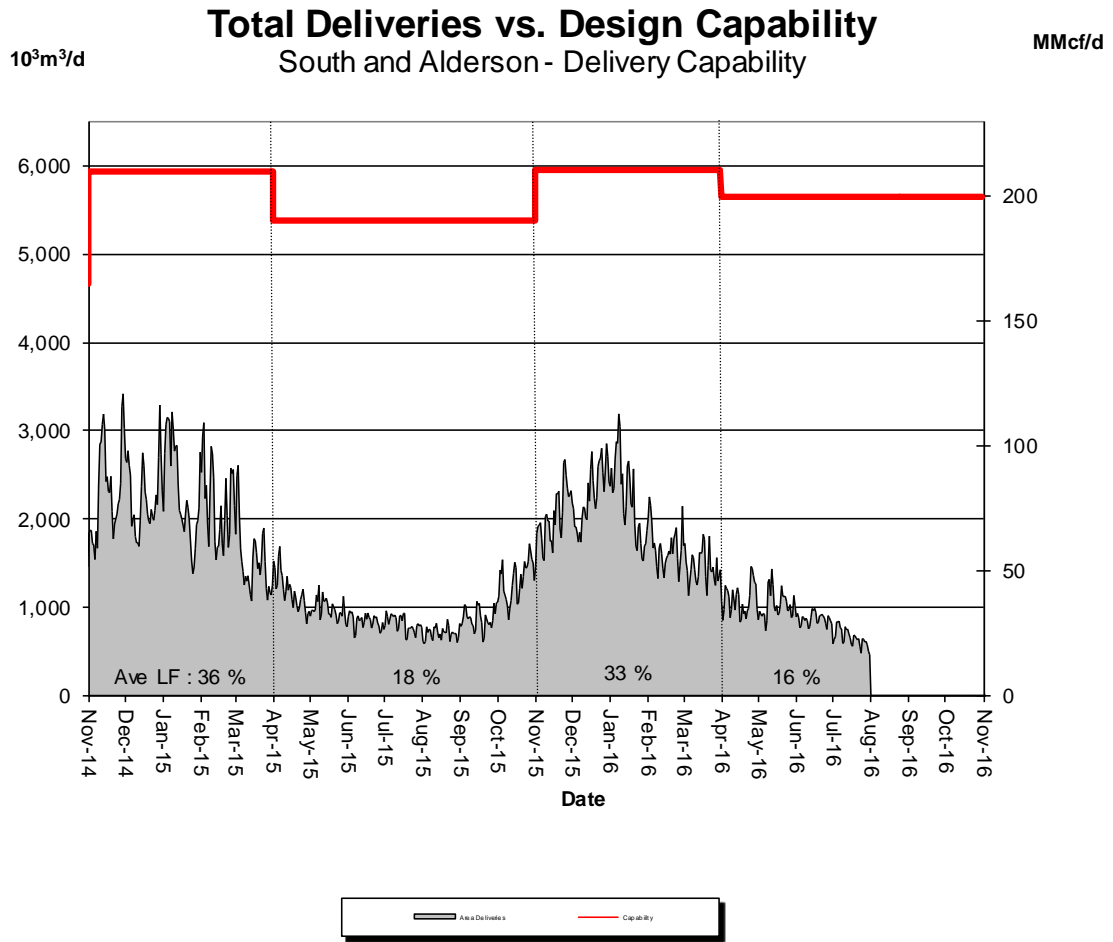
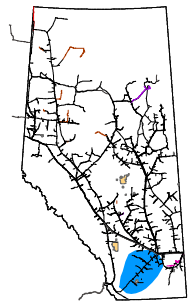
% Design Capability Utilization						
Design Capability	Feb	Mar	Apr	May	Jun	Jul
	94%	96%	97%	95%	99%	101%

# DESIGN CAPABILITY UTILIZATION RIMBEY-NEVIS – FLOW WITHIN



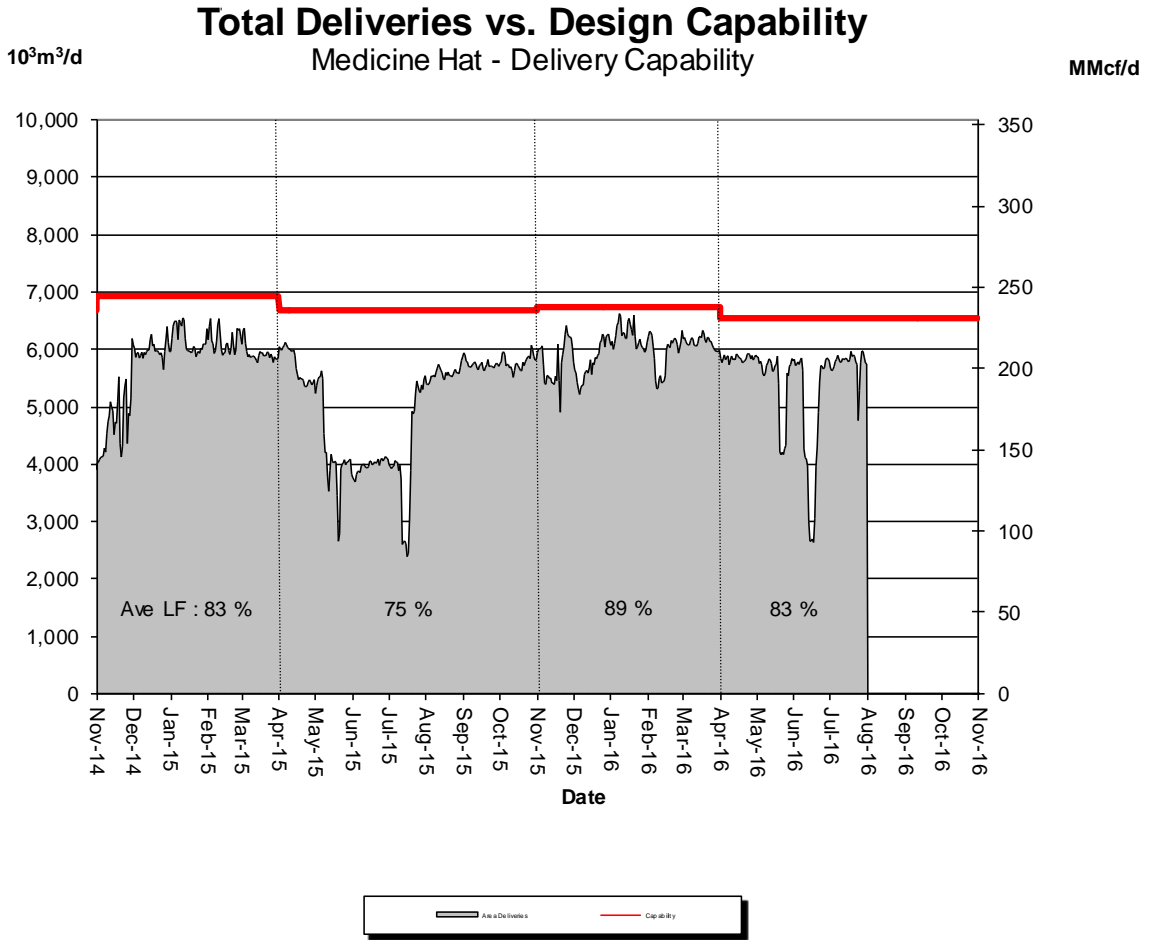
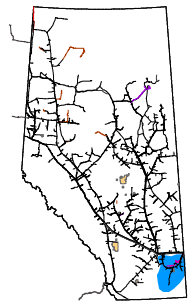
% Design Capability Utilization						
Design Capability	Feb	Mar	Apr	May	Jun	Jul
	20%	16%	17%	18%	16%	16%

# DESIGN CAPABILITY UTILIZATION SOUTH and ALDERSON – FLOW WITHIN



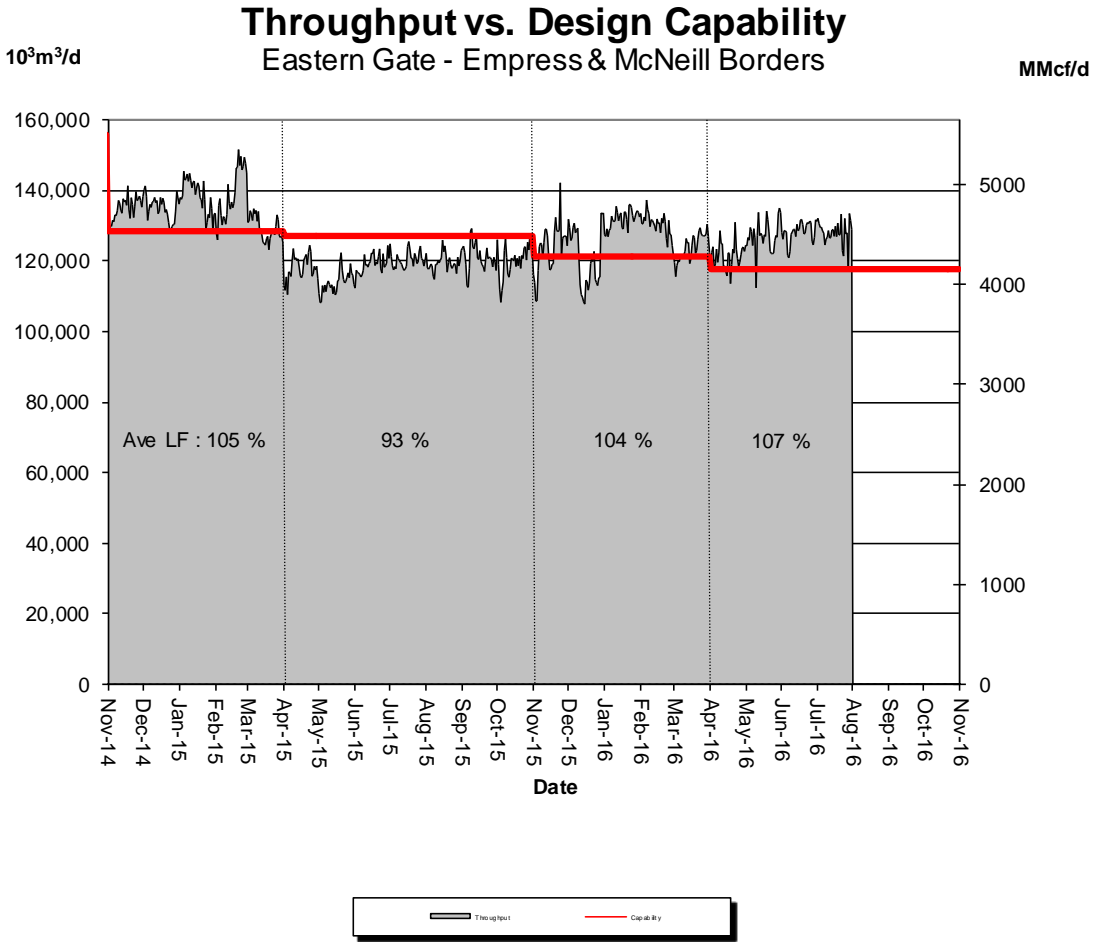
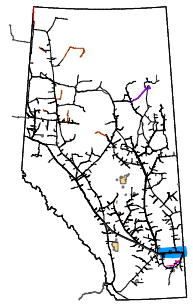
% Design Capability Utilization						
Design Capability	Feb	Mar	Apr	May	Jun	Jul
	28%	25%	19%	18%	15%	12%

# DESIGN CAPABILITY UTILIZATION MEDICINE HAT – FLOW WITHIN

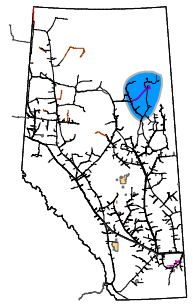


% Design Capability Utilization						
Design Capability	Feb	Mar	Apr	May	Jun	Jul
	88%	91%	89%	83%	73%	88%

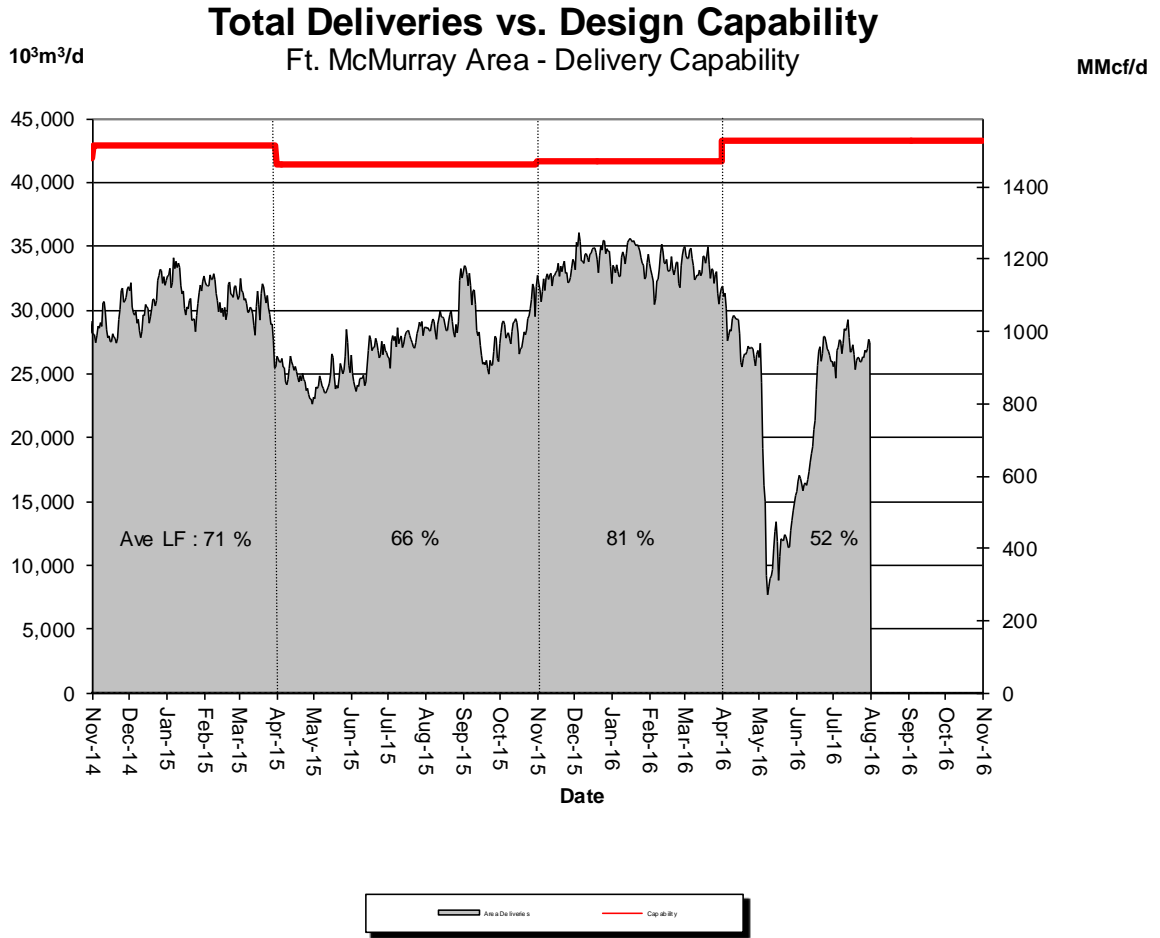
# DESIGN CAPABILITY UTILIZATION EASTERN ALBERTA MAINLINE (Princess to Empress / McNeill)



% Design Capability Utilization						
Design Capability	Feb	Mar	Apr	May	Jun	Jul
	107%	102%	103%	108%	109%	109%

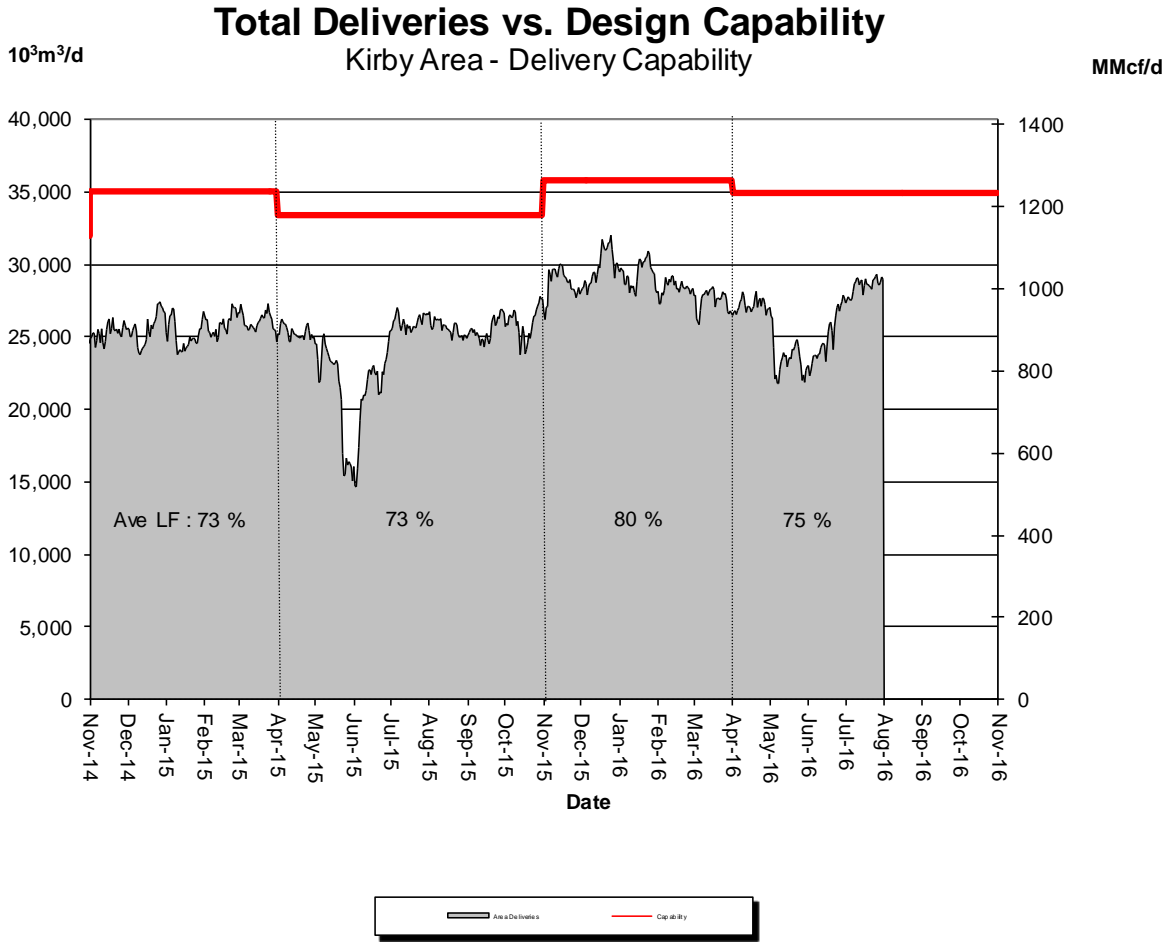
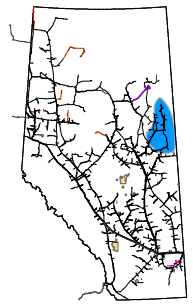


# DESIGN CAPABILITY UTILIZATION FT. McMURRAY AREA – FLOW WITHIN



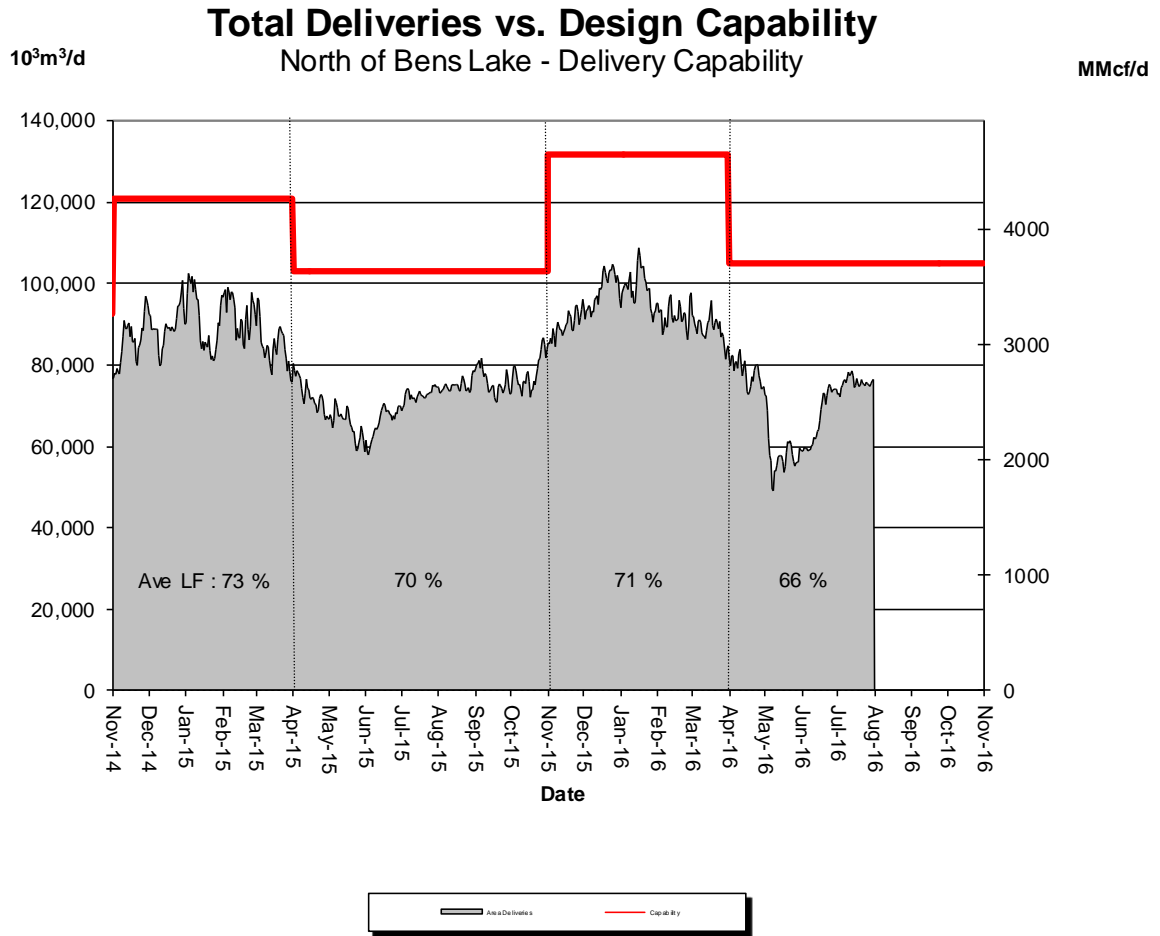
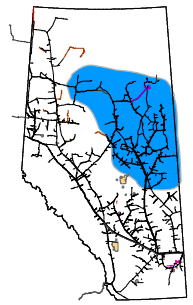
% Design Capability Utilization						
Design Capability	Jan	Feb	Mar	Apr	May	Jun
	82%	80%	80%	65%	31%	50%

# DESIGN CAPABILITY UTILIZATION KIRBY AREA – FLOW WITHIN



% Design Capability Utilization						
Design Capability	Jan	Feb	Mar	Apr	May	Jun
	82%	79%	77%	78%	68%	71%

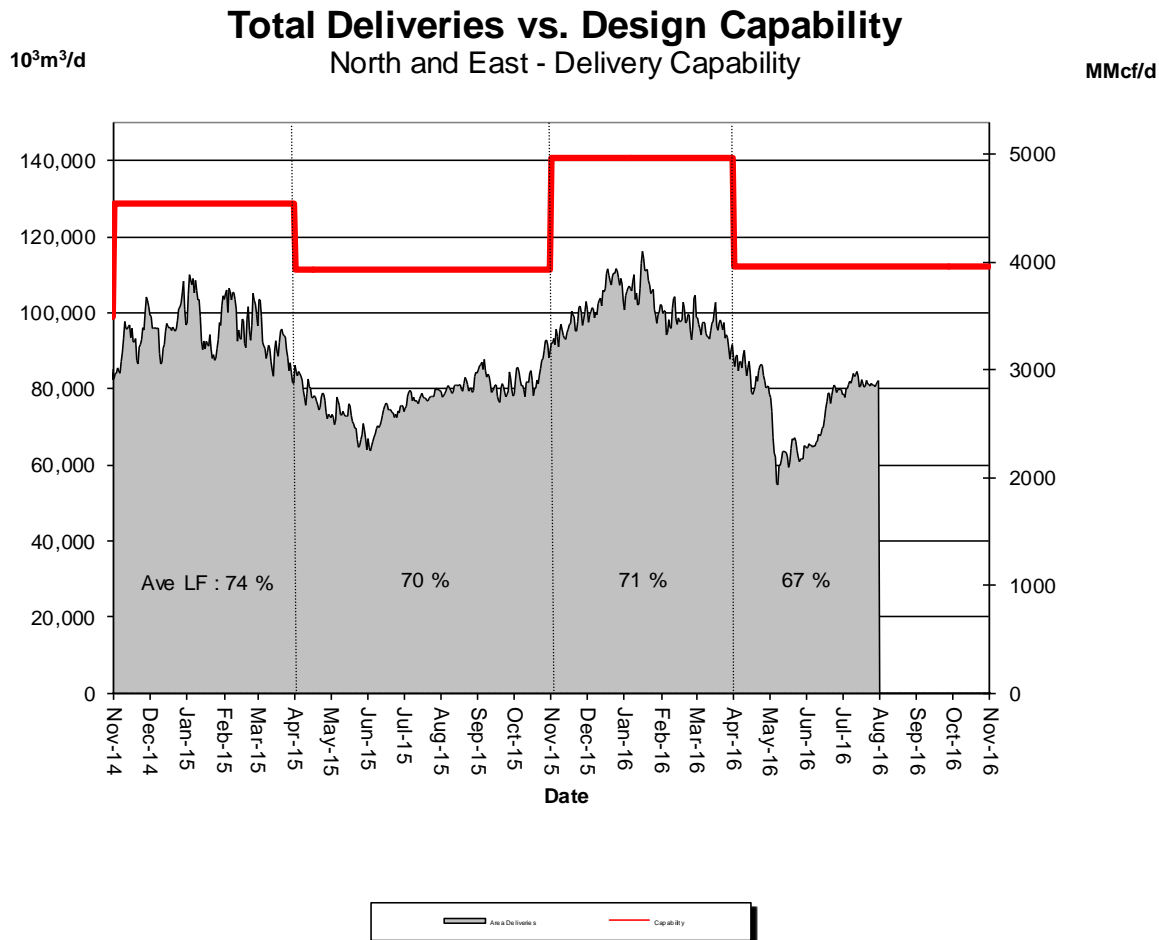
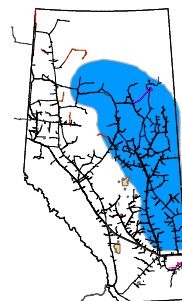
# DESIGN CAPABILITY UTILIZATION NORTH OF BENS LAKE – FLOW WITHIN



% Design Capability Utilization						
Design Capability	Jan	Feb	Mar	Apr	May	Jun
	75%	70%	67%	75%	56%	64%



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



<b>% Design Capability Utilization</b>						
<b>Design Capability</b>	Jan	Feb	Mar	Apr	May	Jun
	75%	70%	68%	75%	57%	64%

# 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.transcanada.com/customerexpress/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.

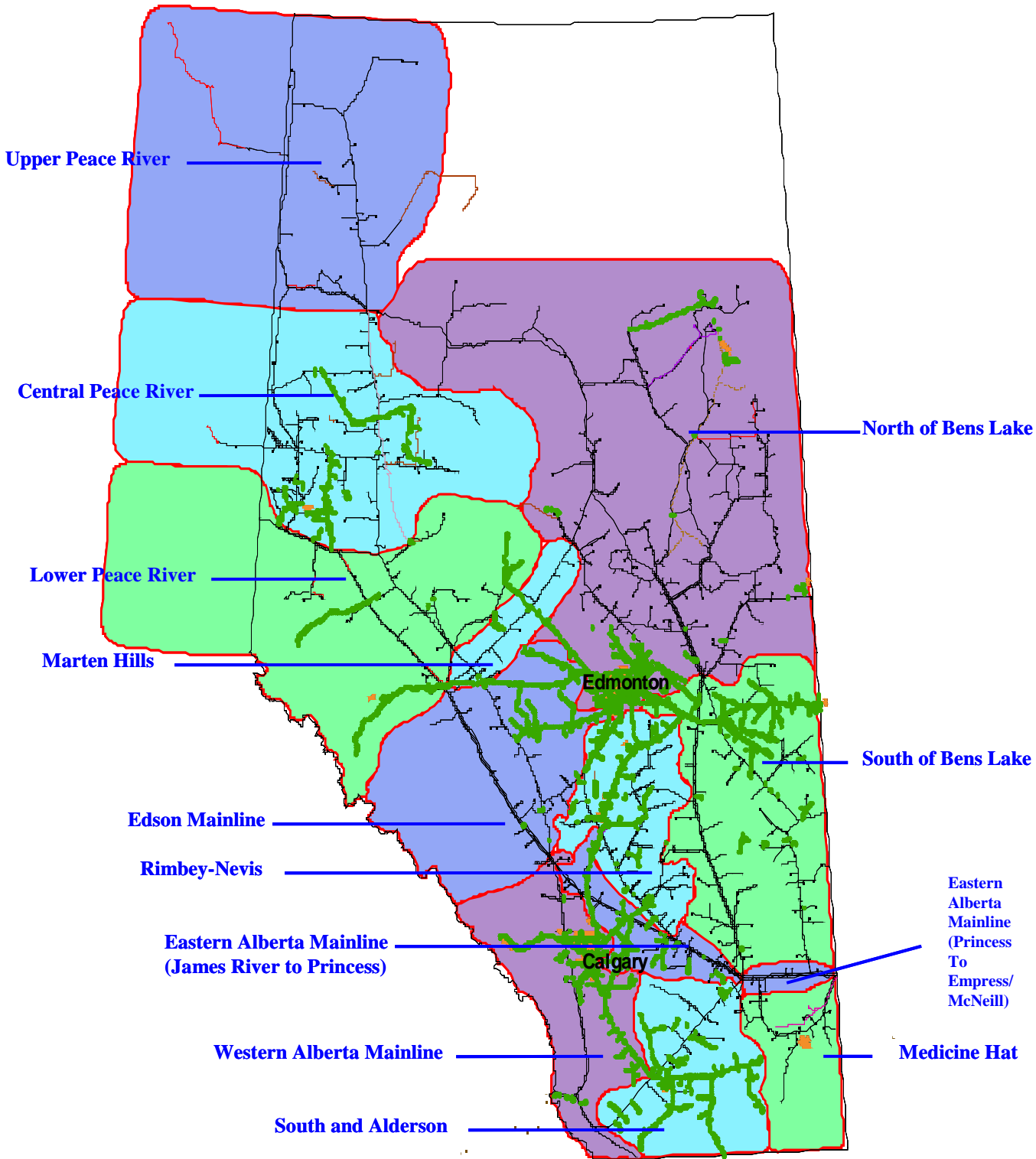
Design Flow Capability utilization is a function of several factors that include:

- 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.

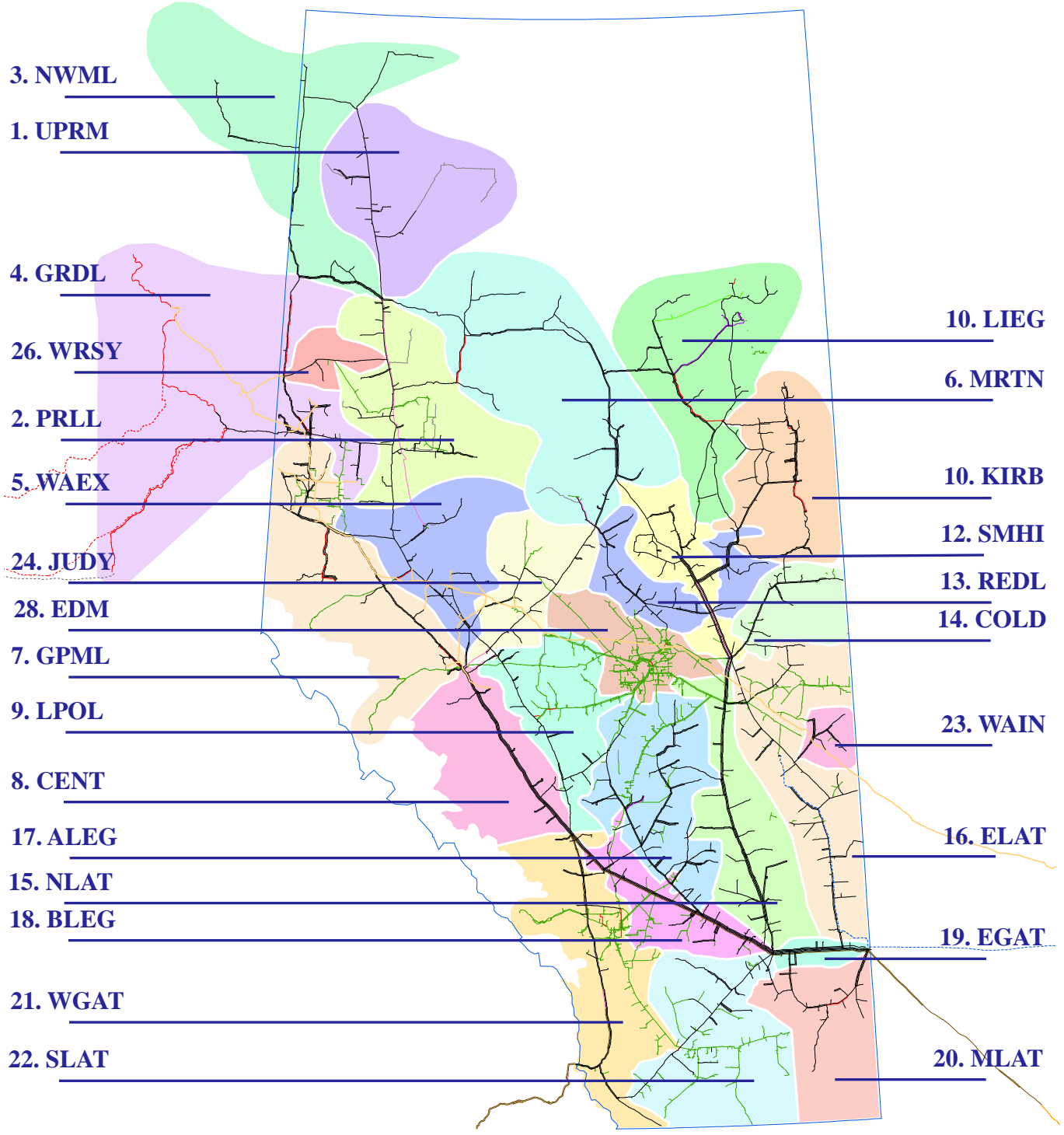
## Future Firm Transportation Service Availability

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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