



NGTL System and Foothills PipeLines Ltd.

Customer Operations Meeting

June 3, 2021



For information purposes only

Welcome and Thank You for Joining Us

Participating via WebEx:

- Please sign-in through WebEx application including your full name and company
- To reduce background noise and improve audio quality, all WebEx participants will be placed on mute
- Please submit your questions via the chat function and we will answer them at the best possible opportunity

Forward Looking Information

This presentation includes certain forward-looking information. Statements that are forward-looking are based on certain assumptions and on what we know and expect today and generally include words like anticipate, expect, believe, may, will, should, estimate or other similar words.

The information provided is 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. TC Energy shall not be liable for damages sustained as a result of any use or reliance on such information.

The outages listed in this presentation are not an exhaustive list. Outage date, duration, and impact may be subject to change. Refer to the Daily Operating Plan (DOP) for all planned outages with potential service impact.

**No
impact to FT**

Refers to outage periods where FT impact is not expected

**Potential
impact to FT**

Refers to outage periods where there is potential of FT impact

**Partial
impact to FT**

Refers to outage periods where FT impact is expected

Important Notes



Outage information in this presentation is NOT applicable beyond the June 3, NGTL/Foothills Customer Operations (WebEx only) meeting



For current outage information, please refer to the most recent Daily Operating Plan (DOP) on my.TC Customer Express



This meeting will only cover operational topics related to the NGTL and Foothills systems. For information on Commercial and Regulatory topics, please contact your Marketing Representative

Safety Moment: LAWN MOWERS

DID YOU KNOW!

Lawn mower-related injuries were more common among adults than children and youth, and most common among people aged 50 to 64 years



Prepare the space

WALK THE LAWN QUICKLY BEFORE MOWING TO CHECK FOR AND REMOVE ANYTHING THAT COULD BE STRUCK BY THE MACHINE AND THROWN OUT



Handle with care

KEEP HANDS AND FEET AWAY FROM THE SPINNING BLADES



Beware of Burns

THE ENGINE AND EXHAUST CAN BECOME HOT. BURNS ARE POSSIBLE IF UNPROTECTED SKIN COMES INTO CONTACT

Ensure safe operation

CHILDREN YOUNGER THAN 12 SHOULD NOT USE THE LAWN MOWER UNSUPERVISED, AND 16 FOR RIDING A LAWN MOWER



Dress the part

PROPER FOOTWEAR, NOT BAREFEET OR SANDALS, IS THE SAFEST OPTION TO LIMIT INJURY TO YOUR FEET

Agenda

- 1 Review Daily Operating Plan (DOP)
- 2 Gas Day Summary Report (GDSR) 101



2021 Outage Review

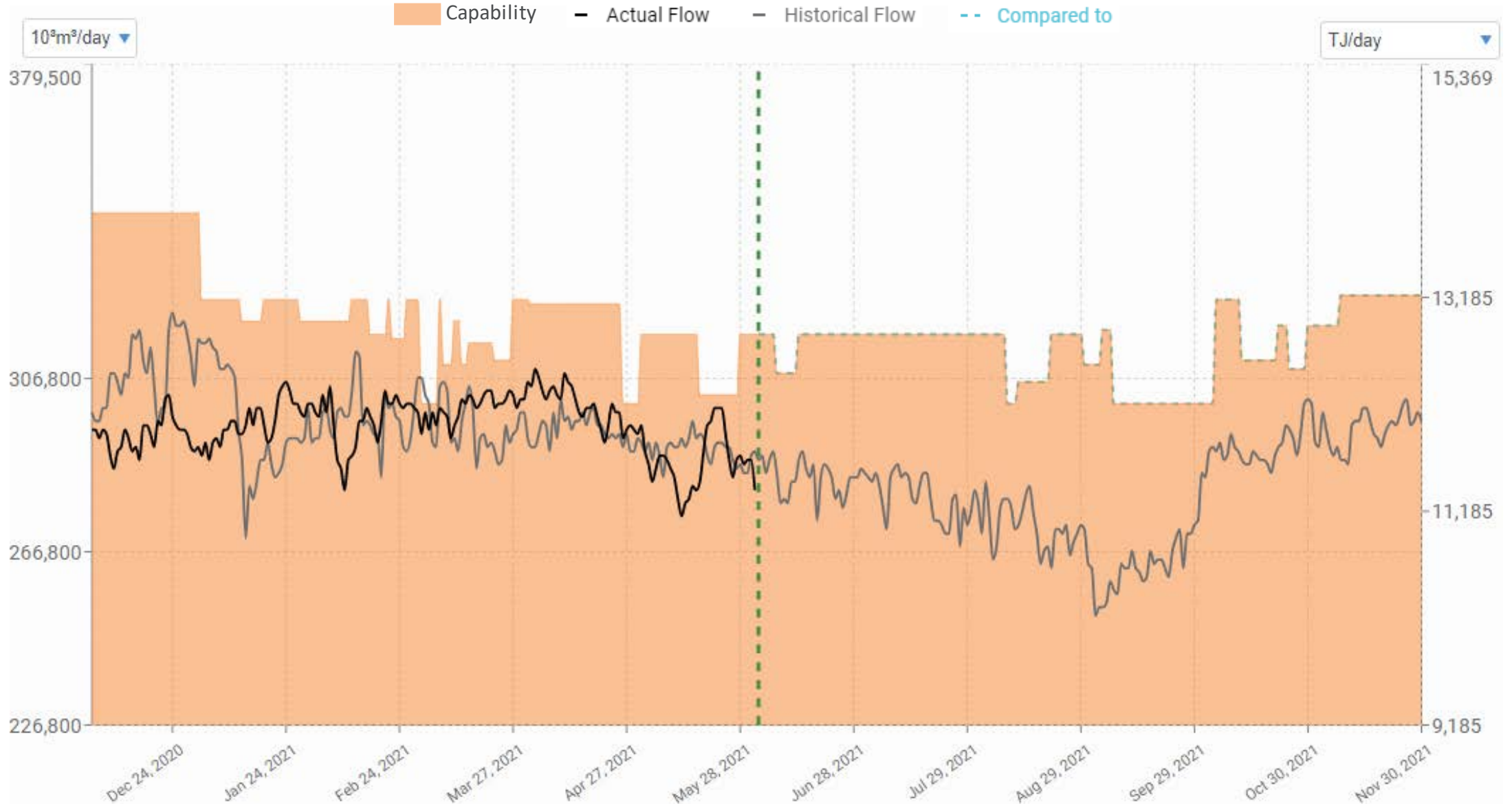
From DOP as of Wednesday, June 2

Publication: Compared to:

Jun 02, 2021

May 05, 2021

Upstream James River



For information purposes only

This slide is **NOT** applicable beyond the June 3, NGTL/Foothills Customer Operations meeting on WebEx. Please refer to the DOP on TC Customer Express for current outage information

Upstream James River Receipt Area (USJR)

No
impact to FT

Potential
impact to FT

Partial
impact to FT

Outage Description	Start	End	USJR Outage Capability (10 ⁶ m ³ /d)	USJR Impact (10 ⁶ m ³ /d)	Area Outage Capability (10 ⁶ m ³ /d)	Outage Area Typical Flows (10 ⁶ m ³ /d)	Service Allowable Location/Area
Wolf Lake A2 - Compressor Station Maintenance	7-Jun-21	12-Jun-21	308	9	N/A	260-310	Potential impact to FT-R USJR
Berland River - Compressor Station Maintenance	9-Aug-21	11-Aug-21	301	16	N/A	260-310	Potential impact to FT-R USJR
Berland River A1 – Compressor Station Maintenance	9-Aug-21	13-Aug-21	306	11	N/A	260-310	Potential impact to FT-R USJR
NPS 36 Edson Mainline Extension - Pipeline Maintenance	14-Aug-21	20-Aug-21	306	11	N/A	260-310	Potential impact to FT-R USJR
Otter Lake - Compressor Station Maintenance	30-Aug-21	3-Sep-21	310	8	191	145-180	Potential impact to FT-R Segments 2, 3, 4, and partial 7
Gold Creek - Compressor Station Modifications	7-Sep-21	4-Oct-21	301	17	175	145-180	Potential impact to FT-R Segments 2, 3, 4, and partial 7
Clearwater - Compressor Station Maintenance	27-Sep-21	1-Oct-21	310	8	N/A	260-310	Potential impact to FT-R USJR
Latornell - Compressor Station Maintenance	12-Oct-21	16-Oct-21	311	14	N/A	260-310	Potential impact to FT-R USJR
Latornell A2 - Compressor Station Maintenance	12-Oct-21	21-Oct-21	311	14	222	170-210	Potential impact to FT-R Segments 2, 3, 4, partial 5, partial 7
Hidden Lake – Compressor Station Maintenance	18-Oct-21	7-Nov-21	319	6	194	145-180	Potential impact to FT-R Segments 2, 3, 4, and partial 7
Alces River - Compressor Station Maintenance	25-Oct-21	29-Oct-21	309	16	N/A	260-310	Potential impact to FT-R USJR

Publication: Compared to:

Jun 02, 2021

May 05, 2021

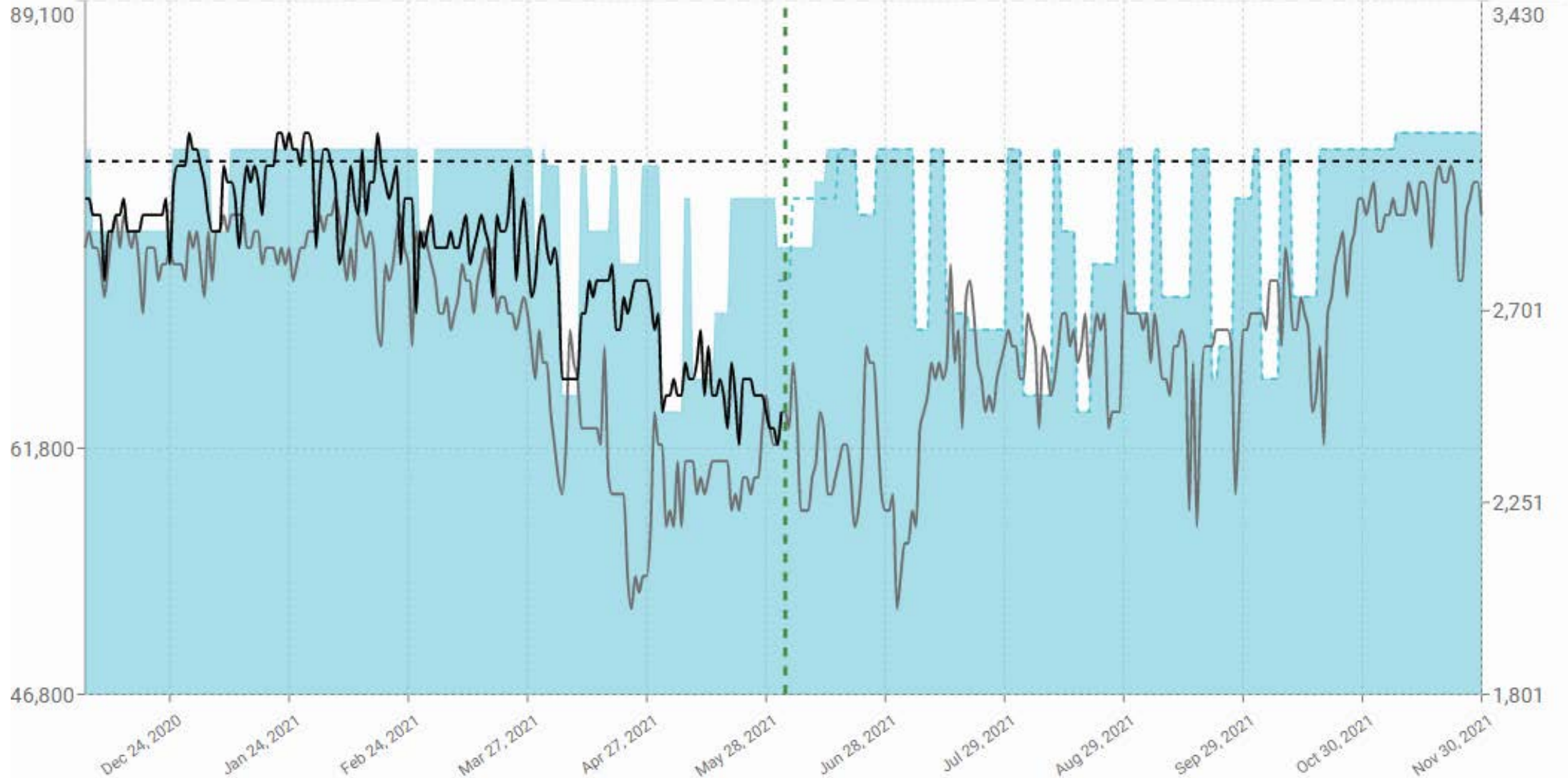
Alberta-B.C. Border

(includes both NGTL and Foothills BC outages)

10⁹m³/day

Capability Actual Flow Historical Flow Contracts Compared to

TJ/day



This slide is **NOT** applicable beyond the June 3, NGTL/Foothills Customer Operations meeting on WebEx. Please refer to the DOP on TC Customer Express for current outage information

West Gate Delivery Area (WGAT)

Foothills Zone 8 (FHBC)

No
impact to FT

Potential
impact to FT

Partial
impact to FT

Outage Description	Start	End	Capability/ Allowable (10 ⁶ m ³ /day)	Impact (10 ⁶ m ³ /d)	System	Service Allowable Location/Area
Burton Creek A3 - Compressor Station Maintenance	31-May-21	9-Jun-21	74	6	NGTL	Potential impact to FT-D: Alberta/BC and Alberta/Montana Borders
Turner Valley A3 - Compressor Station Maintenance	21-Jun-21	25-Jun-21	76	4	NGTL	Potential impact to FT-D: Segment 22 and partial 21
NPS 36 Western Alberta System Mainline Loop - Pipeline Maintenance	6-Jul-21	9-Jul-21	69	11	NGTL	Potential impact to FT-D: Alberta/BC Border
NPS 36 Foothills Pipeline Zone 8 Seg 2 - Pipeline Maintenance	14-Jul-21	19-Jul-21	70	10	FH BC	Potential impact to FT: Alberta/BC Border
NPS 42 Western Alberta System Mainline Loop - Pipeline Modification	20-Jul-21	29-Jul-21	69	11	NGTL	Potential Impact to FT-D: Alberta/BC Border
Winchell Lake - Compressor Station Maintenance	3-Aug-21	7-Aug-21	65	15	NGTL	Potential Impact to FT-D: Segment 22 and partial 21
NPS 36 BC Mainline - Pipeline Maintenance	4-Aug-21	10-Aug-21	65	15	FH BC	Potential impact to FT: Alberta/BC Border
NPS 36 Foothills Zone 8 Seg 3 - Pipeline Maintenance	13-Aug-21	17-Aug-21	75	5	FH BC	Potential impact to FT: Alberta/BC Border
Crowsnest A – Compressor Station Maintenance	17-Aug-21	20-Aug-21	64	16	FH BC	Potential Impact to FT: Alberta/BC Border

West Gate Delivery Area (WGAT)

Foothills Zone 8 (FHBC)

No
impact to FT

Potential
impact to FT

Partial
impact to FT

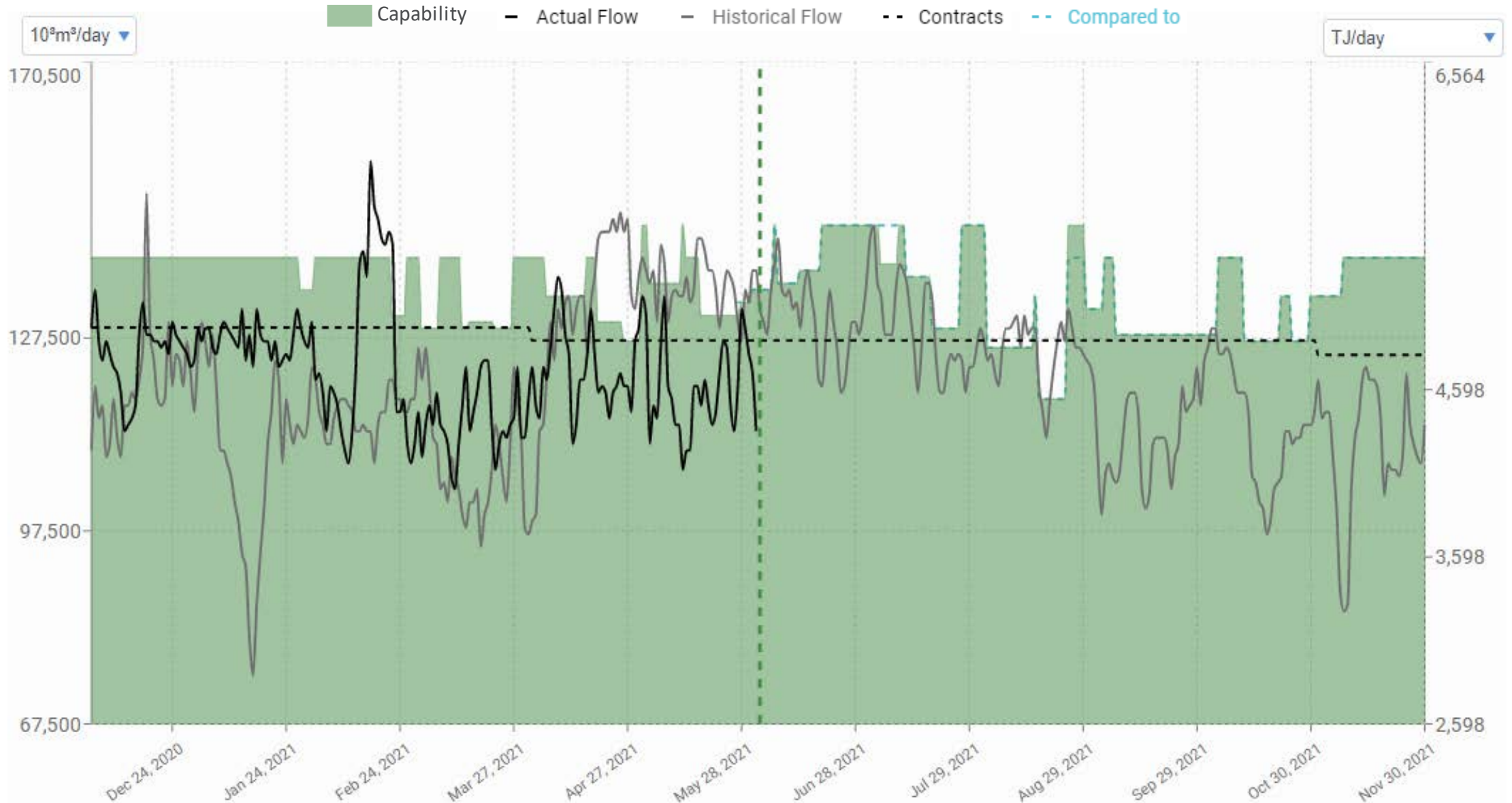
Outage Description	Start	End	Capability/ Allowable (10 ⁶ m ³ /day)	Impact (10 ⁶ m ³ /d)	System	Service Allowable Location/Area
NPS 36 Foothills Zone 8 Seg 4 - Pipeline Maintenance	19-Aug-21	23-Aug-21	73	7	FH BC	Potential impact to FT: Alberta/BC Border
Turner Valley A1 and A2 - Compressor Station Maintenance	23-Aug-21	27-Aug-21	73	7	NGTL	Potential impact to FT-D: Alberta/BC and Alberta/Montana Borders
NPS 36 Foothills Zone 7 Leg 1A – Pipeline Maintenance	1-Sep-21	5-Sep-21	70	10	NGTL	Potential Impact to FT-D: Segment 22 and partial 21
NPS 42 Western Alberta System Mainline Loop - Pipeline Maintenance	8-Sep-21	15-Sep-21	71	9	NGTL	Potential impact to FT-D: Alberta/BC and Alberta/Montana Borders
NPS 36 Western Alberta System Mainline - Pipeline Modification	21-Sep-21	26-Sep-21	68	12	NGTL	Potential Impact to FT-D: Alberta/BC and Alberta/Montana Borders
Clearwater – Compressor Station Maintenance	27-Sep-21	1-Oct-21	77	3	NGTL	Potential impact to FT: Segment 22 and partial 21
Elko - Compressor Station Maintenance	21-Sep-21	22-Sep-21	66	14	FH BC	Potential Impact to FT: Alberta/BC Border
Moyie – Compressor Station Maintenance	4-Oct-21	8-Oct-21	66	14	FH BC	Potential impact to FT: Alberta/BC Border
NPS 36 BC Mainline – Pipeline Maintenance	12-Oct-21	18-Oct-21	71	9	FH BC	Potential impact to FT: Alberta/BC Border

Publication: Compared to:

Jun 02, 2021

May 05, 2021

East Gate



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East Gate Delivery Area (EGAT)

Foothills Zone 9 (FHSK)

No
impact to FT

Potential
impact to FT

Partial
impact to FT

Outage Description	Start	End	Capability (10 ⁶ m ³ /day)	Impact (10 ⁶ m ³ /d)	System	Service Allowable Location/Area
NPS 42 Central Alberta System M/L Lp – Pipeline Modification	26-May-21	5-Jun-21	135	10	NGTL	No impact to FT-D anticipated: Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
Hussar B8 – Compressor Station Maintenance	7-Jun-21	8-Jun-21	140	5	NGTL	No impact to FT-D anticipated: Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
NPS 30 Central Alberta System M/L – Pipeline Modification	8-Jun-21	18-Jun-21	138	7	NGTL	No impact to FT-D anticipated: Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
Hussar A & B – Compressor Station Maintenance	5-Jul-21	9-Jul-21	139	6	NGTL	No impact to FT-D anticipated: Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
Acme – Compressor Station Maintenance	12-Jul-21	25-Jul-21	137	8	NGTL	No impact to FT-D anticipated: Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
NPS 42 Foothills Pipeline Zone 6 – Pipeline Maintenance	19-Jul-21	26-Jul-21	129	16	NGTL	No impact to FT-D anticipated: Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
NPS 42 Edson and Central Alberta System Mainline Loop* Pipeline Maintenance	3-Aug-21	15-Aug-21	126	19	NGTL	No impact to FT-D anticipated: Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
NPS 42 Foothills Pipeline Zone 6 – Pipeline Maintenance*	17-Aug-21	24-Aug-21	118	27	NGTL	No impact to FT-D anticipated: Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
Monchy 1 – Compressor Station Maintenance	7-Sep-21	29-Oct-21	69	-	FH SK	Potential impact to FT: McNeill Border
NPS 42 Foothills Zone 9 – Pipeline Maintenance	16-Sep-21	22-Sep-21	130	10	NGTL	No impact to FT-D anticipated: Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28

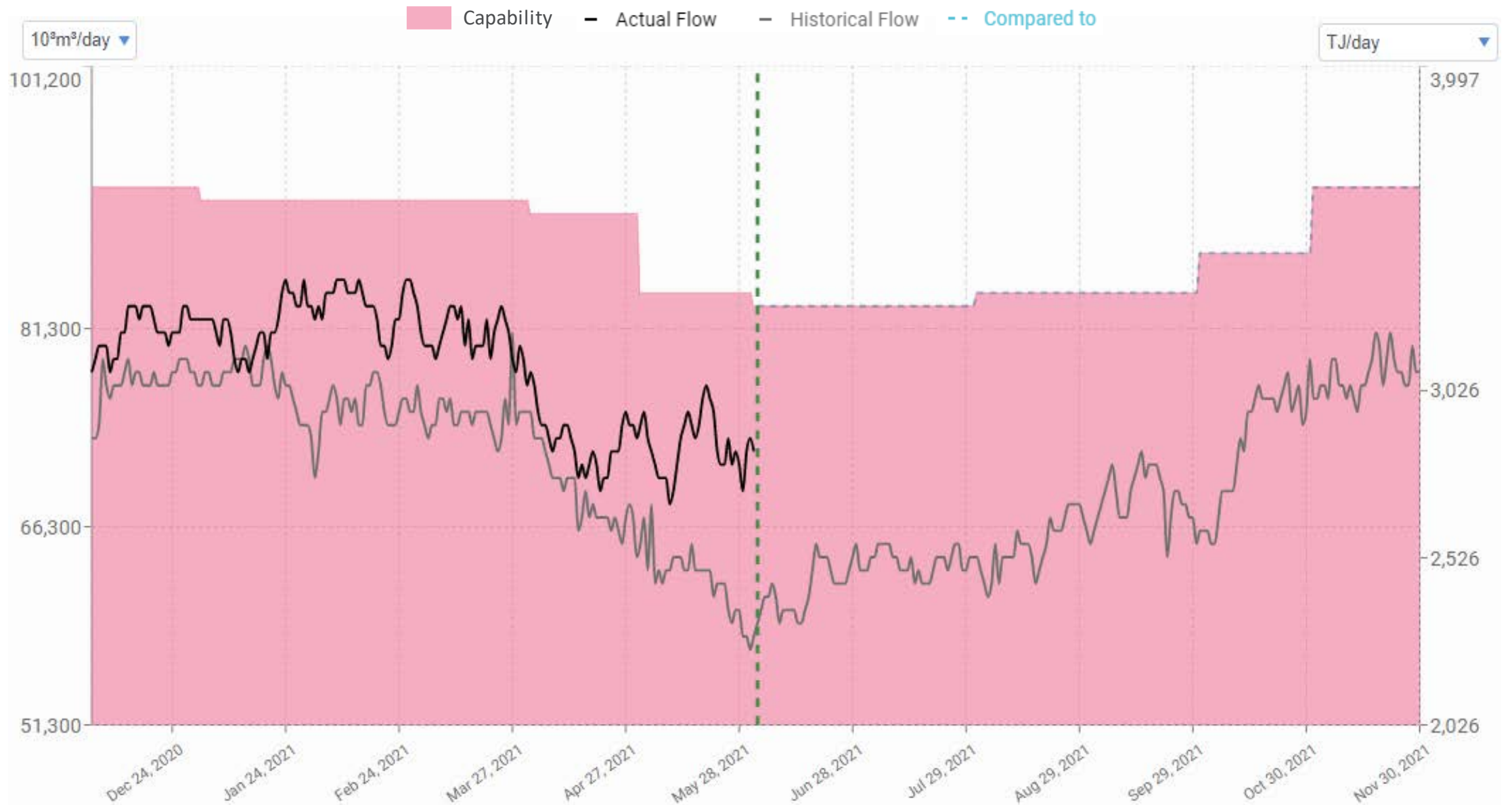
*Potential to impact Tranche 3 EGAT Firm contracts

Publication: Compared to:

Jun 02, 2021

May 05, 2021

Oil Sands Delivery Area



For information purposes only

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Northeast Delivery Area (NEDA) Oil Sands Delivery Area (OSDA)

No
impact to FT

Potential
impact to FT

Partial
impact to FT

There are currently no outages planned that are specific to OSDA or NEDA

The background is a dark blue gradient. In the upper left and center, there is a faint, stylized illustration of a mechanical gear with three bolts. The bolts are arranged in a vertical line on the left side of the gear, and the gear itself is partially visible in the center and right. The overall aesthetic is industrial and technical.

Gas Day Summary Report (GDSR) 101

**NOVA Gas Transmission Ltd.
Gas Day Summary Report (MMCF)**

For: 2021-Jun-01 as of 2021-Jun-02 10:01

Pipeline System: NGTL
Gas Day: 2021-Jun-01

VOLUME SUMMARY	Prorated NOM	Extrapolated VOL	08:00 NOM
EMPRESS BORDER	3,031	2,984	2,948
MCNEILL BORDER	772	796	850
ALBERTA-B.C. BDR	2,211	2,247	2,238
GORDONDALE BORDER	-63	-61	-63
GROUND BIRCH EAST	-225	-226	-221
*OTHER BORDERS	281	255	281
Total Export Deliveries (Gross)	6,295	6,282	6,317
Intraprovincial	9,825	5,168	9,449
Total Storage + Intraprovincial	10,937	5,503	10,571
**Total Net Storage	405	333	427
Total Storage Deliveries	1,112	335	1,122
Total Storage Receipts	-707	-2	-695
Total NGTL Deliveries	17,232	11,785	16,889
Total NGTL Receipts	21,579	11,862	21,570
***NGTL Field Receipts		11,574	
End of Day Linepack		18,373	
Linepack Rate of Change		-430	
Linepack Change (Last 24 hours)		1	
Linepack Target		18,356	
Tolerance		-1/1 (%)	
Tolerance Last Changed		2021-May-30 at 08:00	
Total SD Account (TJ)		-234.9	
Total OBA Account (TJ)		150.3	

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purposes only

NOVA Gas Transmission Ltd.
Gas Day Summary Report (MMCE)
 For: 2021-Jun-01 as of 2021-Jun-02 10:01 1

Pipeline System: NGTL
 Gas Day: 2021-Jun-01 2

VOLUME SUMMARY	Prorated NOM 3	Extrapolated VOL 4	5 08:00 NOM
EMPRESS BORDER	3,031	2,984	2,948
MCNEILL BORDER	772	796	850
ALBERTA-B.C. BDR	2,211	2,247	2,238
GORDONDALE BORDER	-63	-61	-63
GROUND BIRCH EAST	-225	-226	-221
*OTHER BORDERS	281	255	281
Total Export Deliveries (Gross)	6,295	6,282	6,317
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End of Day Linepack		18,373	
Linepack Rate of Change		-430	
Linepack Change (Last 24 hours)		1	
Linepack Target		18,356	
Tolerance		-1/1 (%)	
Tolerance Last Changed		2021-May-30 at 08:00	
Total SD Account (TJ)		-234.9	
Total OBA Account (TJ)		150.3	

GDSR Heading & Columns

1. Refreshes around 6am, 8am, and 10am Mountain Daylight Time (MDT)
2. **Gas Day** is 8am to 8am MDT
3. **Prorated NOM** = Total Nominations calculated by combining the Nomination Cycles
4. **Extrapolated VOL** = Total physical flow for the Gas Day. If Gas Day has not ended, then flows are extended to end of day)
5. **08:00 NOM** = Scheduled 08:00 Nomination for next Gas Day. In this example, it's for Gas Day June 2, 2021

NOVA Gas Transmission Ltd.
Gas Day Summary Report (MMCF)
 For: 2021-Jun-01 as of 2021-Jun-02 10:01

Pipeline System: NGTL
 Gas Day: 2021-Jun-01

VOLUME SUMMARY	Prorated NOM	Extrapolated VOL	08:00 NOM
EMPRESS BORDER	3,031	2,984	2,948
MCNEILL BORDER	772	796	850
ALBERTA-B.C. BDR	2,211	2,247	2,238
GORDONDALE BORDER	-63	-61	-63
GROUND BIRCH EAST	-225	-226	-221
*OTHER BORDERS 1	281	255	281
Total Export Deliveries (Gross)	6,295	6,282	6,317
Intraprovincial 2	9,825	5,168	9,449
Total Storage + Intraprovincial	10,937	5,503	10,571
**Total Net Storage	405	333	427
Total Storage Deliveries	1,112	335	1,122
Total Storage Receipts	-707	-2	-695
Total NGTL Deliveries	17,232	11,785	16,889
Total NGTL Receipts	21,579	11,862	21,570
***NGTL Field Receipts 3		11,574	
End of Day Linepack		18,373	
Linepack Rate of Change 4		-430	
Linepack Change (Last 24 hours)		1	
Linepack Target		18,356	
Tolerance		-1/1 (%)	
Tolerance Last Changed		2021-May-30 at 08:00	
Total SD Account (TJ) 5		-234.9	
Total OBA Account (TJ) 6		150.3	

GDSR Rows

- Other Borders** = Alberta Montana, Alliance Edson, Alliance Shell, Cold Lake, and Unity
- Intraprovincial** = Total Deliveries – Border Deliveries – Storage Deliveries
- NGTL Field Receipts** = Total Receipts - Storage Receipts - Border Receipts
- Linepack Rate of Change** = 4-hour rate of linepack change
- Total SD Account** = Total Customer Inventory
- Total OBA Account** = Total Operator Balancing Inventory

Locating the GDSR

www.tccustomerexpress.com 1

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Customer Express - Your one stop source for commercial information on our Canadian pipelines

Click Before You Dig

WHAT'S NEW

- Canadian Mainline GCTS Nominations Training Now Available
- Introducing TC Energy
- North Bay Junction Long Term Fixed Price
- Approved Mainline 2020 Abandonment Surcharges
- NGTL System 2019 Annual Plan

TOOLS

- Conversion Tool
- CO2 Service Charge Calculator
- Customer Witness Inspection
- Mainline Diversion Calculator
- Toll Calculator

NGTL System 2

- Canadian Mainline
- Foothills System
- Great Lakes Pipeline Canada
- Canadian Gas Pipelines Code of Conduct
- Other Assets



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Customer Express Home Pipelines NGTL System Printer-Friendly Page

Pipelines

Canada

NGTL System

- Customer Activities
- Informational Postings
- Service Offerings
- Regulatory Information
- Industry Committee
- Contacts
- Site Map

Canadian Mainline

Foothills System

Great Lakes Pipeline Canada

Canadian Gas Pipelines Code of Conduct

Other Assets

NGTL System

Dashboard

SHOW: E6M3

Area	CAPABILITY AUTHORIZED *			CAPABILITY FORECAST *
	Current Gas Day (E6M3/day)	Current Gas Day FT **	Current Gas Day IT **	Next Gas Day (E6M3/day)
EGAT		100%	100%	
WGAT		100%	100%	
Foothills SK		100%	100%	
Foothills BC		100%	100%	
OSDA		100%	100%	
Greater USJR		100%	100%	

* Bulletins supercede any of this information
 ** Authorized allowable percentage based on Evening Cycle Authorizations
 NOTE: - Heating value assumed is 38.5, TC's default average

Capability data updated daily at 8:30am MDT. Last Updated: 2021-05-19
 download historical CSV file (E6M3)

LINEPACK	E3M3/DAY	E6M3/DAY	MMCF	MAY 12, 2021 - MAY 18, 2021	
Current Linepack	534,300	534.3	18,861	550	540
Linepack Target	525,000	525.0	18,533	530	520
4 Hour ROC	-15,656	-15.7	-553		

Linepack data updated every 30 minutes
 Last Updated: May 19, 2021 3:00:46 PM MDT

Chart data shows end-of-gas day value per GDSR

SD AND OBA		Tolerance -2/0 (%)
SD -174.3 TJ	OBA 639.1 TJ	

SD and OBA data updated twice per day
 Last Updated: May 19, 2021 03:00:51 PM MDT

Daily Operations

- Capacity Bulletin Board
- Customer Activities
- Flowing Gas - Month End
- Gas Day Summary Report 3

Monthly Reporting

- Border Heat Values, Empress, McNeill & A/BC
 UPDATED: May 7, 2021
- CO2 Management Service
 UPDATED: Feb 17, 2021
- Facilities
 UPDATED: May 7, 2021

TC Customer Express Home

For information purposes only

Running the GDSR

Gas Day Summary Report

Please enter the parameters below and click 'Run Report'

NGTL Metric
 Mainline (VALID TO JULY 31, 2019) Imperial

Gas Day (yyyymmdd):

HTML = View

View the report in your browser

<http://www.tccustomerexpress.com/gdsr/GdsrNGTLImperial20210602.htm>

PDF = Print

Print or save report as a pdf

<http://www.tccustomerexpress.com/gdsr/GdsrNGTLImperial20210602.pdf>

CSV = Download

Download data as CSV

<http://www.tccustomerexpress.com/gdsr/GdsrNGTLImperial20210602.csv>

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