

May NGTL/FH Customer Operations Meeting

The meeting will begin at 1:00 pm (MST)



NGTL System and Foothills Pipelines Ltd.

CUSTOMER OPERATIONS MEETING

FOR INFORMATIONAL PURPOSES ONLY



5 / 2 / 2024



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 when entering the meeting
- Please submit your questions via using the raise hand function and coming off mute or the chat function and we will answer at the best possible opportunity



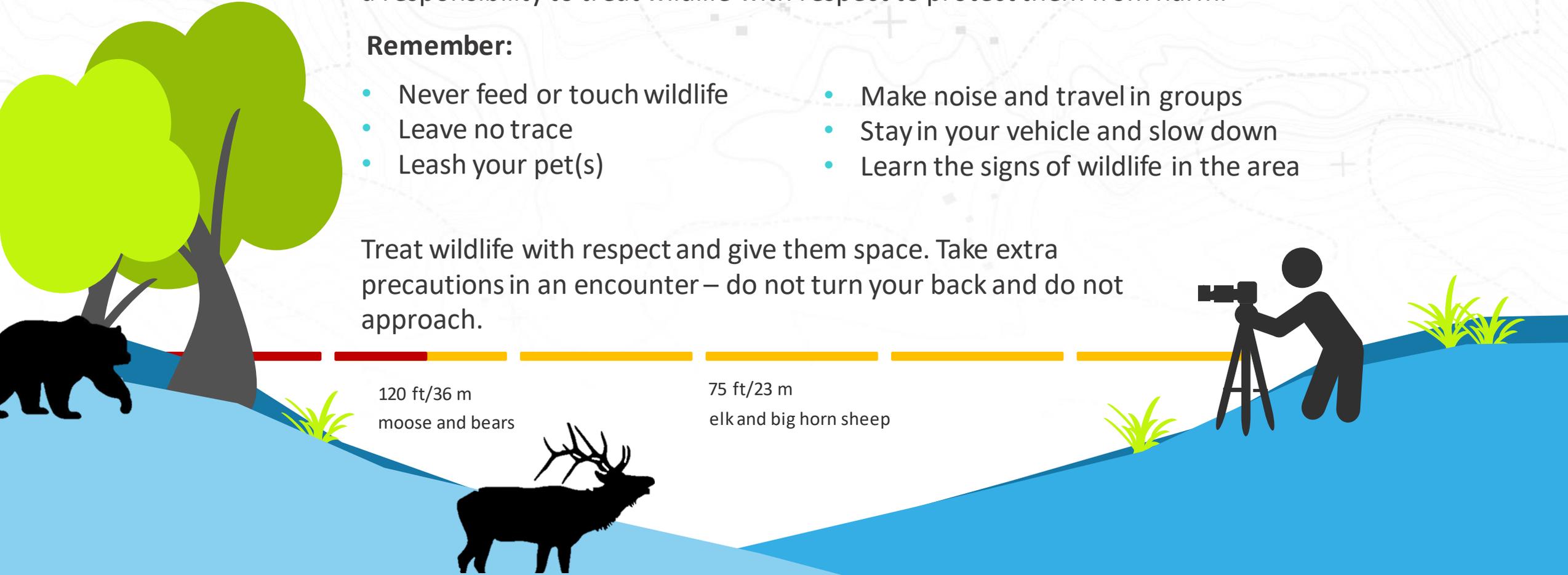
Wildlife Safety

Few things are as exciting as observing wildlife in their natural habitat, but we have a responsibility to treat wildlife with respect to protect them from harm.

Remember:

- Never feed or touch wildlife
- Leave no trace
- Leash your pet(s)
- Make noise and travel in groups
- Stay in your vehicle and slow down
- Learn the signs of wildlife in the area

Treat wildlife with respect and give them space. Take extra precautions in an encounter – do not turn your back and do not approach.



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 may not be accurate beyond the May 2, 2024, NGTL/Foothills Customer Operations (WebEx only) meeting



For current outage and capability information, please refer to the most recent Daily Operating Plan ([DOP](#)), the [Dashboard](#) and [bulletins](#)



This meeting covers broad operational and project-related topics that impact operations on the NGTL and Foothills systems. For information on focused Commercial, Operational and Regulatory topics, please contact your [Marketing Representative](#)

Agenda



1. Project Update
2. Grande Prairie Mainline Incident
3. Review of Upcoming 2024 Outages



5 / 2 / 2024

Projects Update



Project Updates: ISD Summary (since April 4, 2024 update)

NGTL:	
Intra-Basin Expansion	<ul style="list-style-type: none">• Saddle Hills Unit Addition (In-service) <i>*change since last update</i><ul style="list-style-type: none">• 100% construction complete• 100% commissioning complete• Emerson Creek Compressor Station (In Service)



Grande Prairie Mainline Pipeline Incident



2024 Operational Outlook

(From DOP as of Wednesday, May 1)



2024 Outages

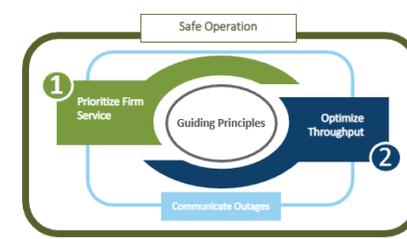
- All known planned outages at this time have been added to the DOP
- We will continue to make best efforts to limit changes of dates to larger impacting outages; however, Start and End Dates, Durations, Capability, Area of impact may be revised as new information becomes available or further optimization opportunities are identified

Outages and/or maintenance work is posted to the DOP if there is reasonable expectation that the event could or will result in a change to service authorization levels.

Optimization efforts are on-going, and we will continue to focus on safety, optimizing system capacity and minimizing outage impacts.

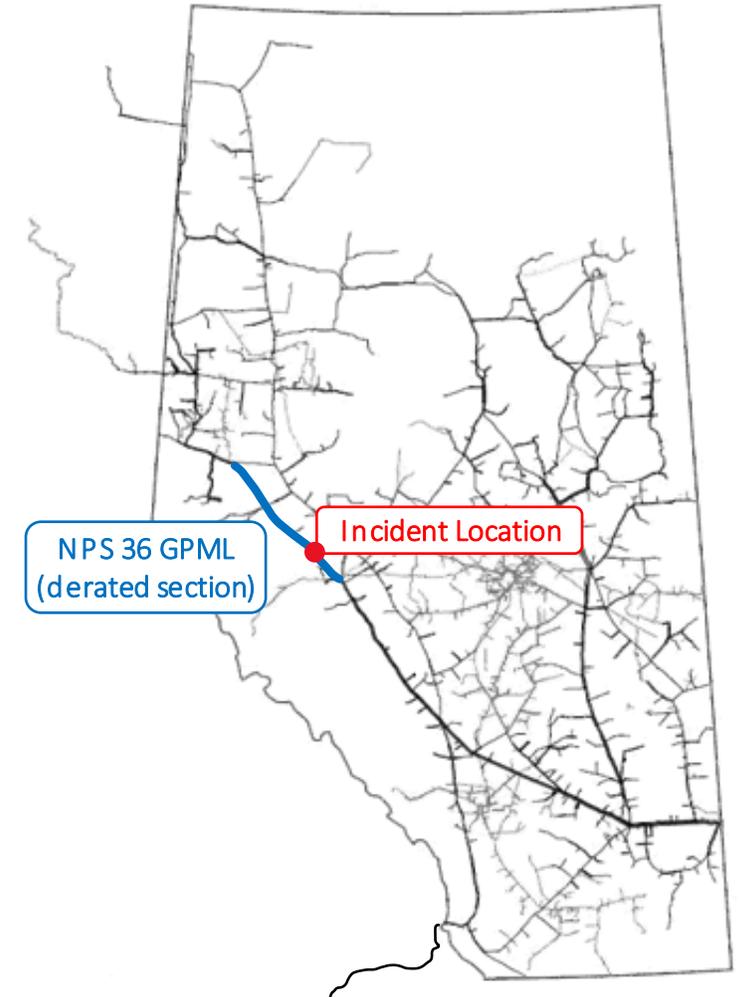


NPS 36 GPML Incident



What is the capacity impact to the system with the NPS 36 GPML pressure derates in place and what does this mean for the remainder of summer maintenance season?

- The USJR base capability and outage capabilities communicated in the DOP for the month of May have been updated to reflect the new NPS 36 GPML pressure derates
- The new NPS 36 GPML pressure derates have resulted in a decrease in USJR capacity and has reduced the margin between USJR actual flows and available capacity
- Evaluation of longer-term system and outage impacts, and associated schedule optimization (beyond May), is ongoing and will continue to be communicated via the DOP as soon as the analysis is complete

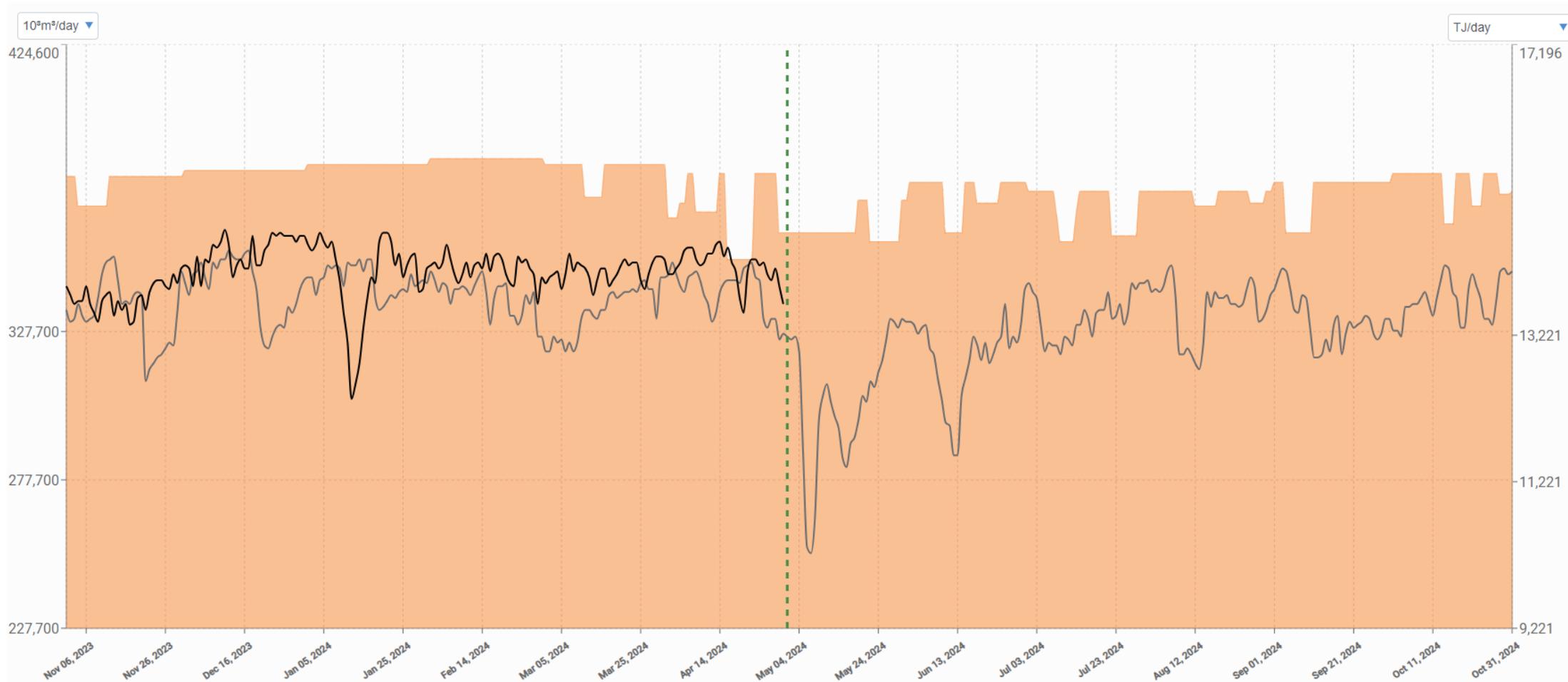


Whether or not the reduced capacity will result in an increase to service impacts will be highly dependent on system and contract utilization over the summer



Upstream James River

Capability - Actual Flow - Historical Flow



May not be accurate beyond the May 2 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
Berland River – Compressor Station Maintenance	29-Apr-24	18-May-24	361	11	N/A	340 - 360	Potential impact to FT-R USJR U/S Berland River
Pipestone Creek – Compressor Station Maintenance	6-May-24	12-May-24	365	7	270	230 - 260	Potential impact to FT-R USJR U/S Berland River
NPS 42 Edson Mainline Loop – Pipeline Maintenance	22-May-24	29-May-24	358	14	263	230 - 260	Potential impact to FT-R USJR U/S Berland River
Meikle River D5 – Compressor Station Maintenance	10-Jun-24	14-Jun-24	361	17	229	195 - 225	Potential impact to FT-R USJR U/S Latornell
NPS 36 Edson Mainline Extension – Pipeline Maintenance	18-Jun-24	23-Jun-24	371	7	276	230 - 260	Potential impact to FT-R USJR U/S Berland
NPS 48 Tanghe Creek Loop 2 – Pipeline Maintenance	9-July-24	12-July-24	358	17	226	195 - 225	Potential impact to FT-R USJR U/S Latornell
Hidden Lake North B2 – Compressor Station Maintenance	8-July-24	13-July-24	368	7	236	195 - 225	Potential impact to FT-R USJR U/S Latornell
Paul Lake – Compressor Station Maintenance	8-July-24	12-July-24	367	8	235	195 - 225	Potential impact to FT-R USJR U/S Latornell
Otter Lake – Compressor Station Maintenance	22-Jul-24	28-Jul-24	360	15	228	195 - 225	Potential impact to FT-R USJR U/S Latornell
NPS 36 WAS Mainline Extension – Pipeline Maintenance	12-Aug-24	17-Aug-24	370	5	238	195 - 225	Potential impact to FT-R USJR U/S Latornell
Latornell A1 – Compressor Station Maintenance	26-Aug-24	29-Aug-24	371	4	276	230 - 260	Potential impact to FT-R USJR U/S Berland

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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
Meikle River C – Compressor Station Maintenance	4-Sep-24	10-Sep-24	361	17	229	195 - 225	Potential impact to FT-R USJR U/S Latornell
Alces River – Compressor Station Maintenance	4-Sep-24	6-Sep-24	368	10	236	195 - 225	Potential impact to FT-R USJR U/S Latornell
Meikle River D5 – Compressor Station Maintenance	14-Oct-24	16-Oct-24	364	17	232	195 - 225	Potential impact to FT-R USJR U/S Latornell
Goodfish – Compressor Station Maintenance	21-Oct-24	23-Oct-24	370	11	238	195 - 225	Potential impact to FT-R USJR U/S Latornell
Latornell – Compressor Station Maintenance	28-Oct-24	30-Oct-24	374	7	279	230 - 260	Potential impact to FT-R USJR U/S Berland River
Latornell A2 – Compressor Station Maintenance	28-Oct-24	31-Oct-24	375	6	280	230 - 260	Potential impact to FT-R USJR U/S Berland River

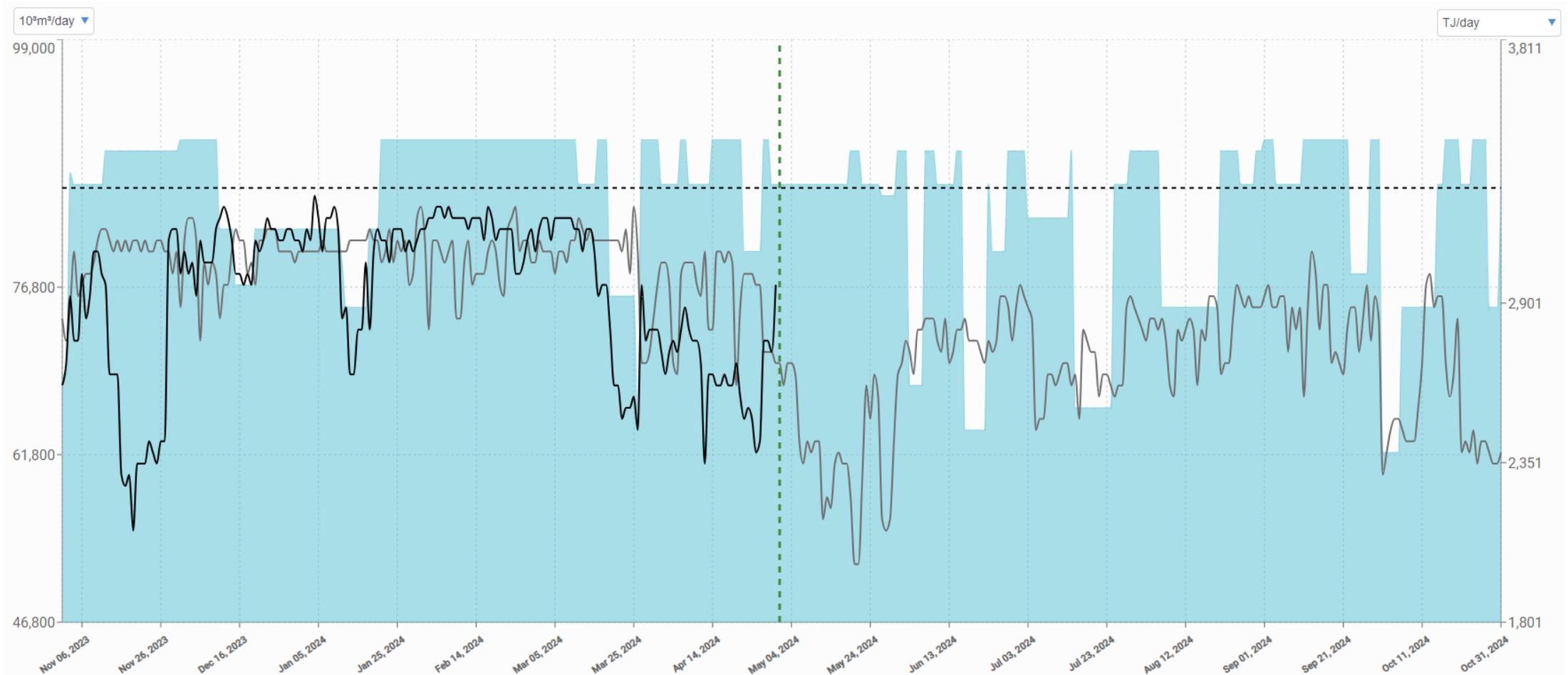
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Alberta-B.C. Border

(includes both NGTL and Foothills BC outages)

■ Capability - Actual Flow - Historical Flow - - Contracts



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West Gate Delivery Area (WGAT)

No
impact to FT

Potential
impact to FT

Partial
impact to FT

Outage Description	Start	End	Capacity (10 ⁶ m ³ /d)	Impact (10 ⁶ m ³ /d)	Service Allowable Location/Area
Crowsnest H – Compressor Station Maintenance	27-May-24	30-May-24	85	4	Potential Impact to FT Foothills BC
Burton Creek – Compressor Station Maintenance	3-Jun-24	6-Jun-24	68	21	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders
Winchell Lake – Compressor Station Maintenance	17-Jun-24	20-Jun-24	84	5	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders Segment 22 and Partial 21
Crowsnest A – Compressor Station Maintenance	17-Jun-24	21-Jun-24	65	24	Potential Impact to FT Foothills BC
NPS 36 BC Mainline – Pipeline Maintenance	17-Jun-24	22-Jun-24	64	25	Potential Impact to FT Foothills BC
Moyie D – Compressor Station Maintenance	24-Jun-24	27-Jun-24	80	9	Potential Impact to FT Foothills BC
NPS 36 Western Alberta System Mainline – Pipeline Maintenance	3-Jul-24	13-Jul-24	83	6	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders

Note: Outages located in the USJR area show up in the WGAT table in DOP to indicate a broad area restriction could be applied to reduce flows through the bottleneck but have been excluded from this slide to avoid duplication

May not be accurate beyond the May 2 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)

No
impact to FT

Potential
impact to FT

Partial
impact to FT

Outage Description	Start	End	Capability (10 ⁶ m ³ /d)	Impact (10 ⁶ m ³ /d)	Service Allowable Location/Area
Turner Valley A3 – Compressor Station Maintenance	15-Jul-24	19-Jul-24	85	4	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders
Crowsnest B – Compressor Station Maintenance	15-Jul-24	19-Jul-24	80	9	Potential Impact to FT Foothills BC
NPS 36 BC Mainline – Pipeline Maintenance	15-Jul-24	24-Jul-24	68	21	Potential Impact to FT Foothills BC
NPS 36 Western Alberta System Mainline – Pipeline Maintenance	15-Jul-24	24-Jul-24	66	23	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders Segment 22 and Partial 21
Elko – Compressor Station Maintenance	6-Aug-24	20-Aug-24	75	14	Potential Impact to FT Foothills BC
Burton Creek A3 – Compressor Station Maintenance	23-Sep-24	27-Sep-24	78	12	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders
Moyie – Compressor Station Maintenance	1-Oct-24	5-Oct-24	62	28	Potential Impact to FT Foothills BC
Turner Valley – Compressor Station Maintenance	1-Oct-24	14-Oct-24	75	15	Potential Impact to FT-D Alberta/BC and Alberta/Montana Borders Segment 22 and Partial 21
Crowsnest K – Compressor Station Maintenance	28-Oct-24	30-Oct-24	75	15	Potential Impact to FT Foothills BC

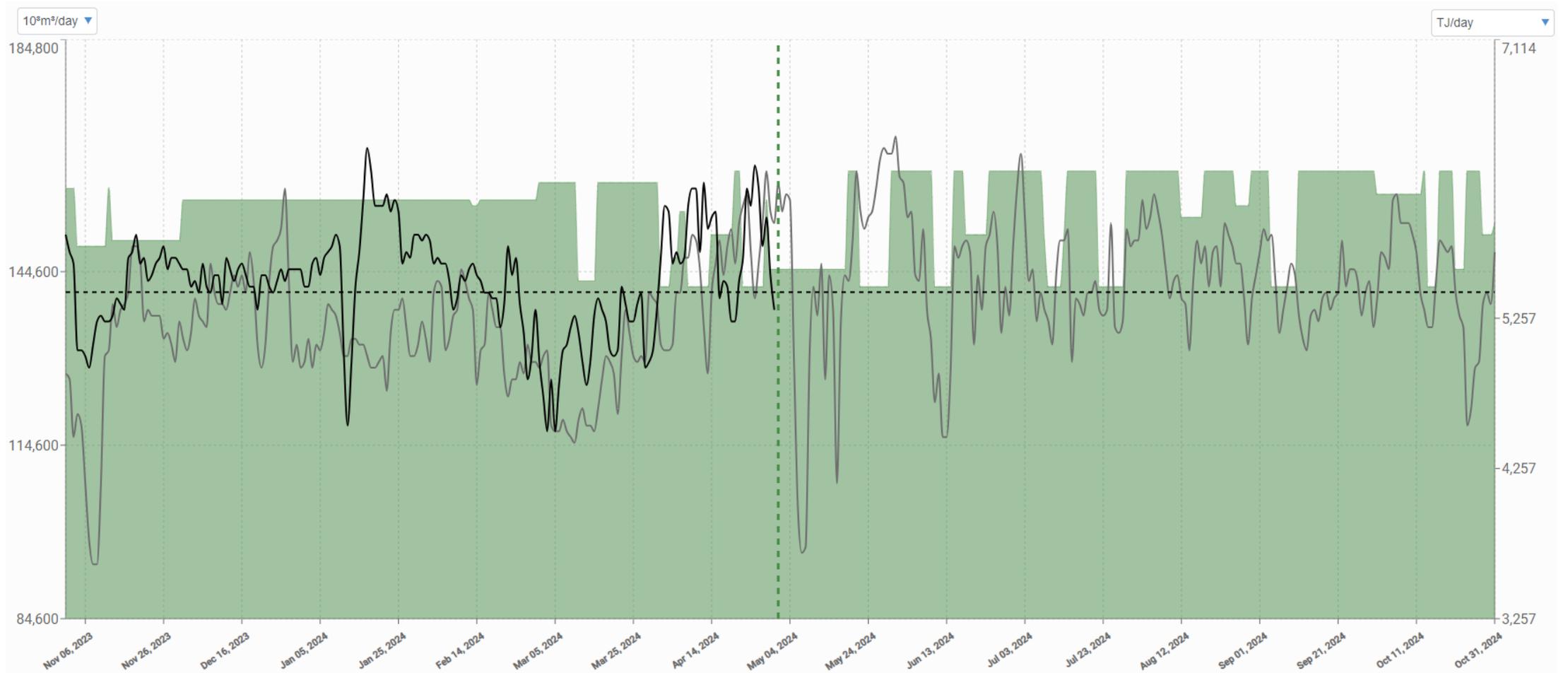
Note: Outages located in the USJR area show up in the WGAT table in DOP to indicate a broad area restriction could be applied to reduce flows through the bottleneck but have been excluded from this slide to avoid duplication

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East Gate

■ Capability - Actual Flow - Historical Flow - - Contracts



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East Gate Delivery Area (EGAT)

No
impact to FT

Potential
impact to FT

Partial
impact to FT

Outage Description	Start	End	Capability (10 ⁶ m ³ /d)	Impact (10 ⁶ m ³ /d)	Service Allowable Location/Area
Acme – Compressor Station Maintenance	22-Apr-24	05-May-24	157	5	No impact to FT-D anticipated Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
Didsbury – Compressor Station Maintenance	13-May-24	17-May-24	156	6	No impact to FT-D anticipated Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
Beiseker B3 – Compressor Station Maintenance	10-Jun-24	13-Jun-24	158	4	No impact to FT-D anticipated Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28
Crawling Valley – Compressor Station Maintenance	1-Oct-24	12-Oct-24	158	4	No impact to FT-D anticipated Empress/McNeill Borders Segments 15, 16, 17, 18, 19, 20, 23, partial 21, and partial 28

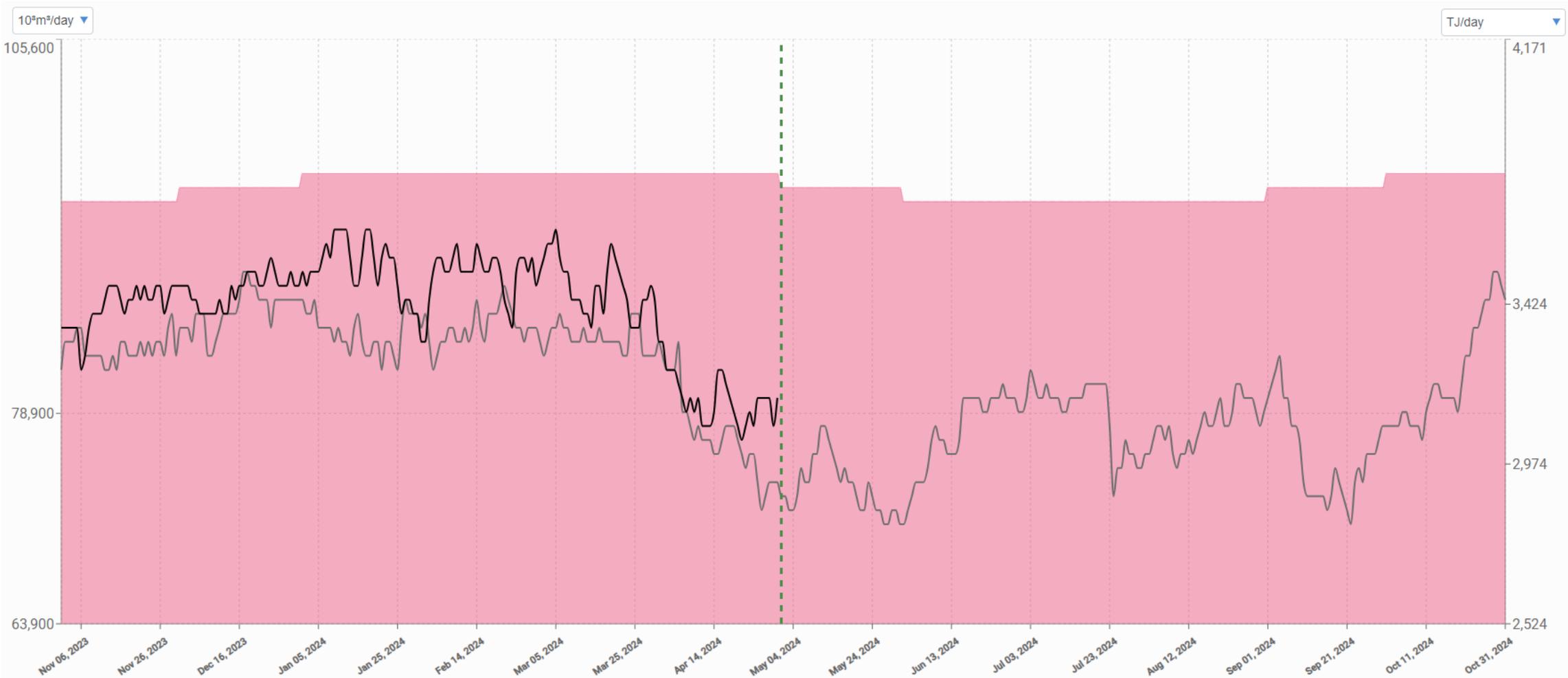
Note: Outages located in the USJR area show up in the EGAT table in DOP to indicate a broad area restriction could be applied to reduce flows through the bottleneck but have been excluded from this slide to avoid duplication

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Oil Sands Delivery Area

■ Capability - Actual Flow - Historical Flow



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Northeast Delivery Area (NEDA) Oilsands Delivery Area (OSDA)

No
impact to FT

Potential
impact to FT

Partial
impact to FT

There are currently no outages planned that have potential to impact service specific to OSDA or NEDA

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CONTACTS



MARKETING REPS

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NELSON JALOTJOT

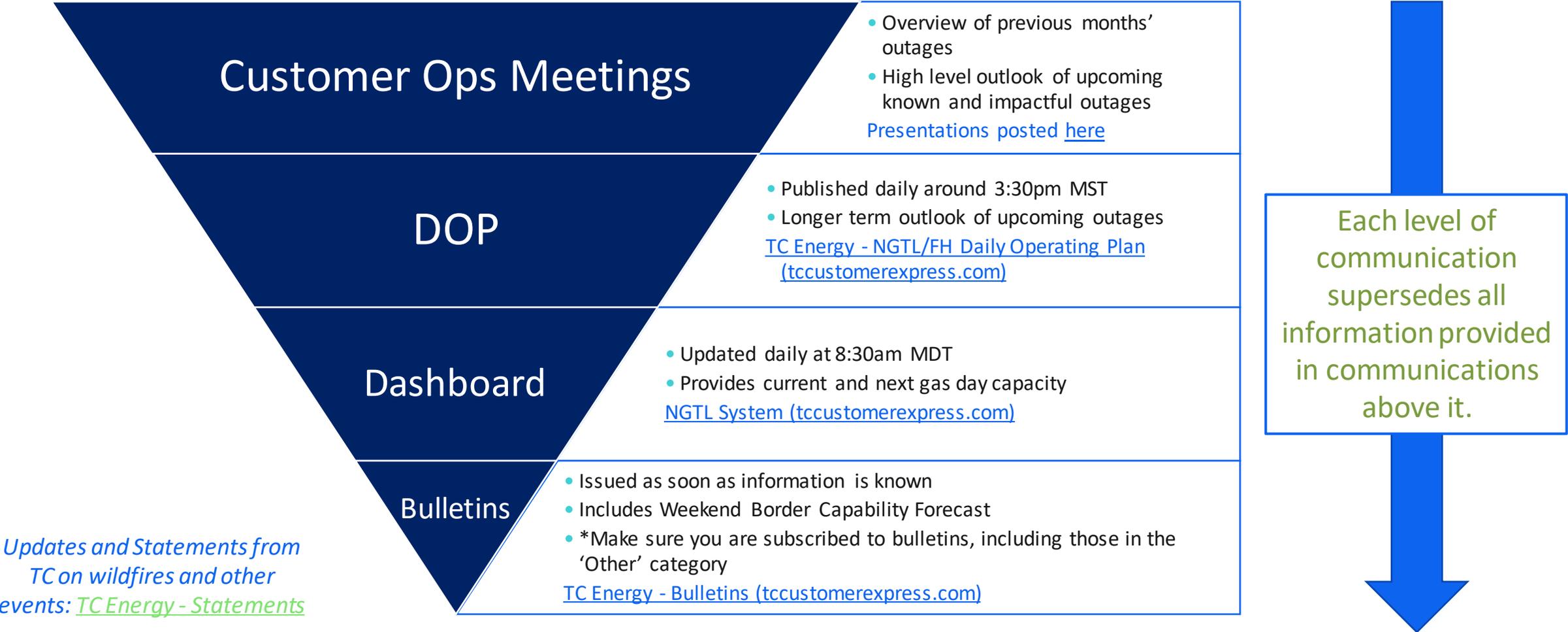
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Outage Communication Tools: Order

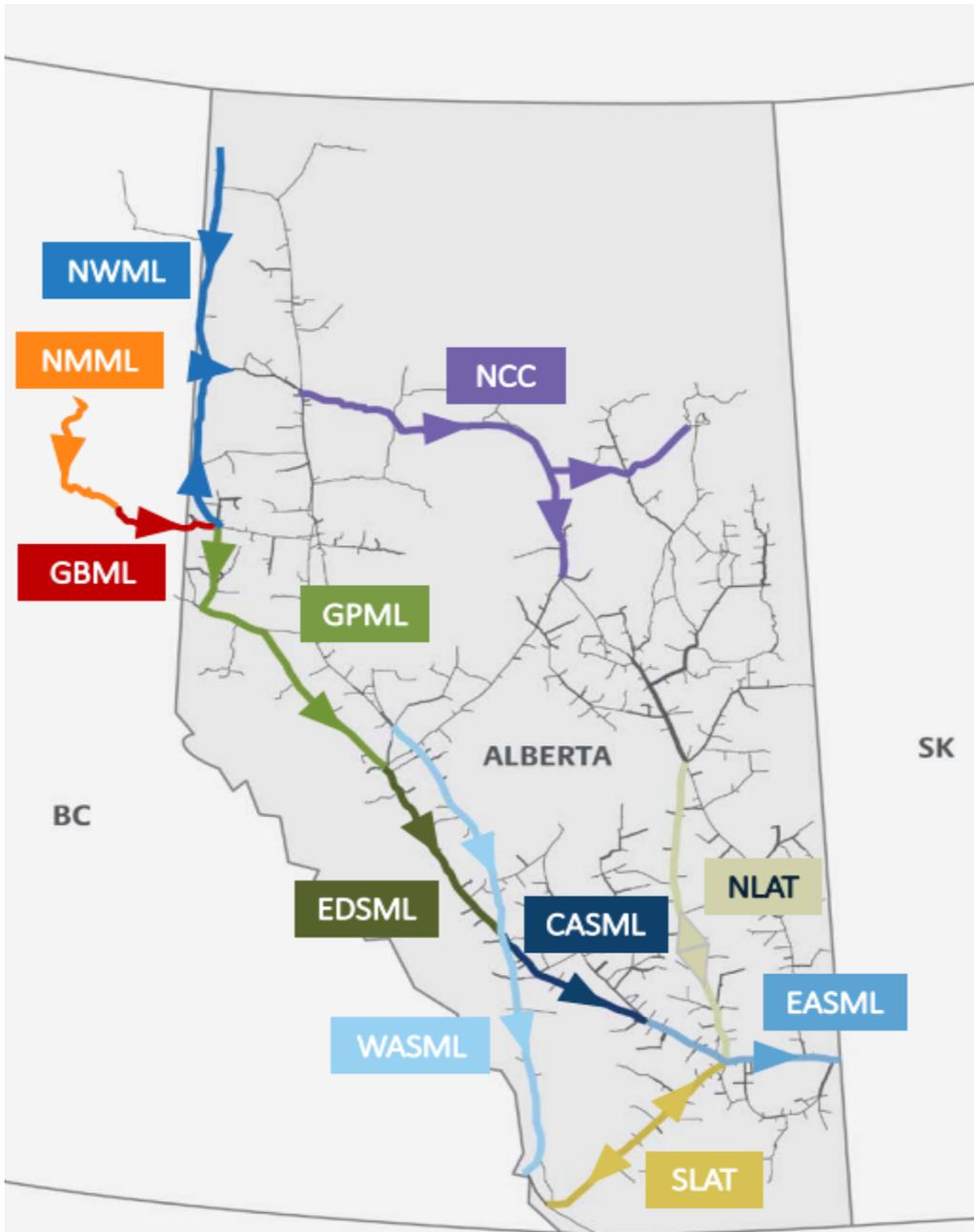


Glossary of Terms

- ❖ **DOP:** Daily Operating Plan [DOP](#)
- ❖ **NGTL:** Nova Gas Transmission Ltd.
- ❖ **FH:** Foothills Pipeline System (BC or SK)
- ❖ **ISD:** In-Service Date
- ❖ **ILI:** Inline Inspection
- ❖ **Transportation Services**
 - ❖ **IT-R:** Interruptible Transportation - Receipt
 - ❖ **IT-D:** Interruptible Transportation - Delivery
 - ❖ **FT-R:** Firm Transportation - Receipt
 - ❖ **FT-D:** Firm Transportation - Delivery
- ❖ **Operational Areas**
 - ❖ **USJR:** Upstream James River
 - ❖ **WGAT:** West Gate
 - ❖ **EGAT:** East Gate
 - ❖ **OSDA:** Oilsands Delivery Area
 - ❖ **NEDA:** North-East Delivery Area



Commonly Referenced Flow Paths



- North Montney Mainline (NMML)
- Groundbirch Mainline (GBML)
- Northwest Mainline (NWML)
- North Central Corridor (NCC)
- Grande Prairie Mainline (GPML)
- Edson Mainline (EDSML)
- Western Alberta System Mainline (WASML)
- Central Alberta System Mainline (CASML)
- Eastern Alberta System Mainline (EASML)
- South Lateral (SLAT)
- North Lateral (NLAT)