



# EPNG / Mojave 2018-19 Winter Preparedness

Kinder Morgan Western Region Pipelines  
October 31, 2018

# Agenda

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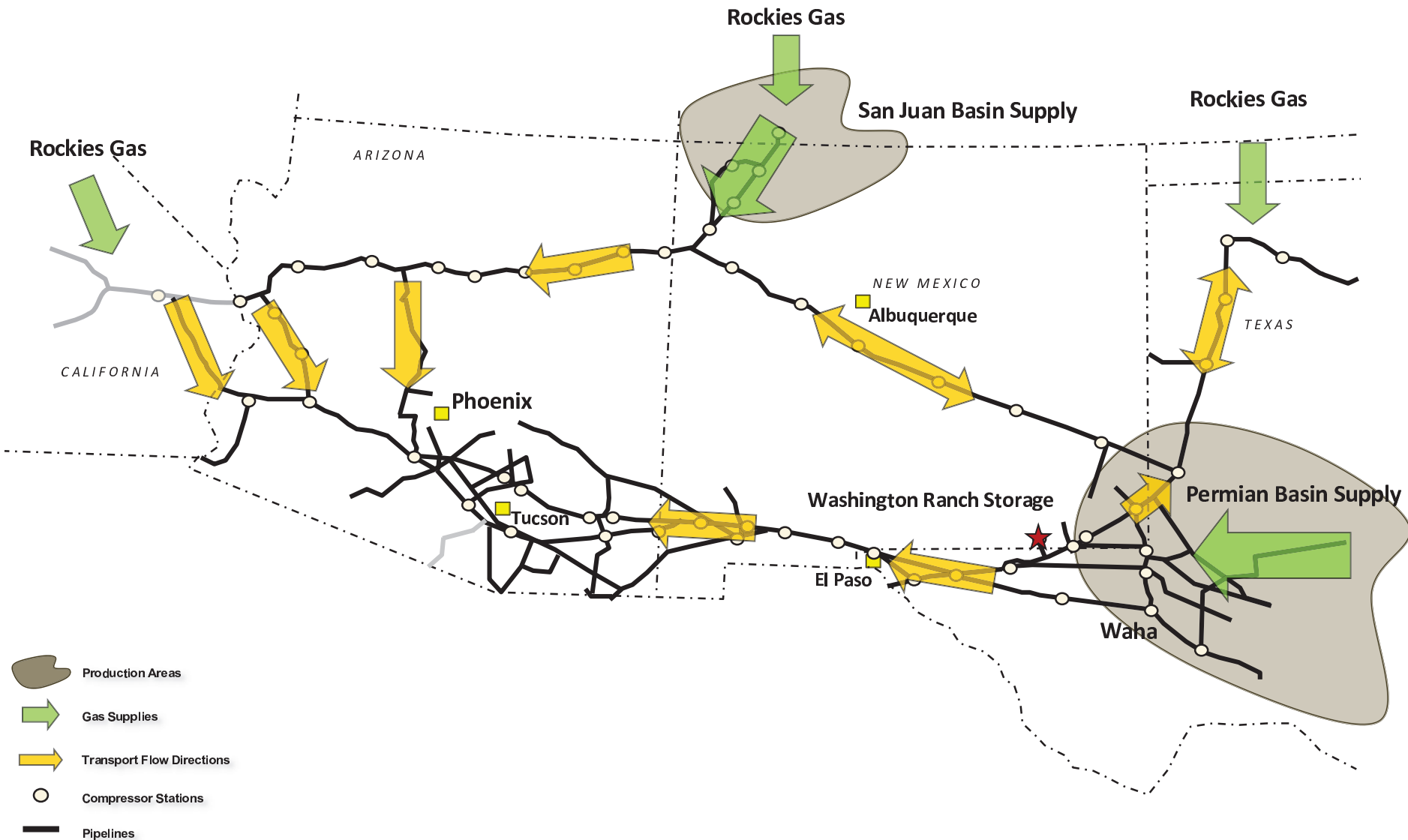
- Operations Overview
- Emergency Communication
- Winter Preparedness Planning
- Maintenance Planning Process
- Remaining 2018 Planning Maintenance
- Gas Control Contacts

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# Operations Overview

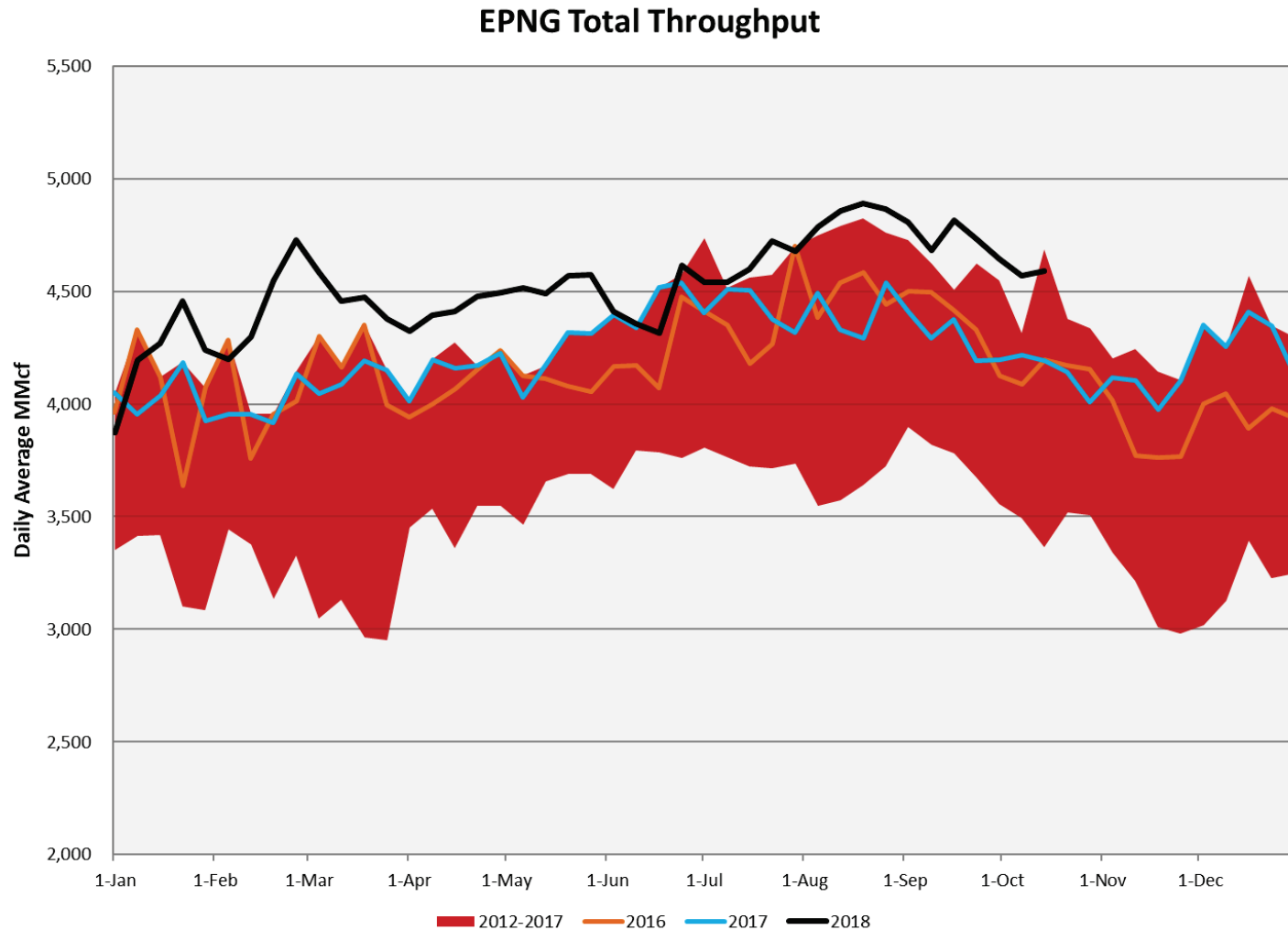
# EPNG System Overview

## Supply Locations and Flow Direction



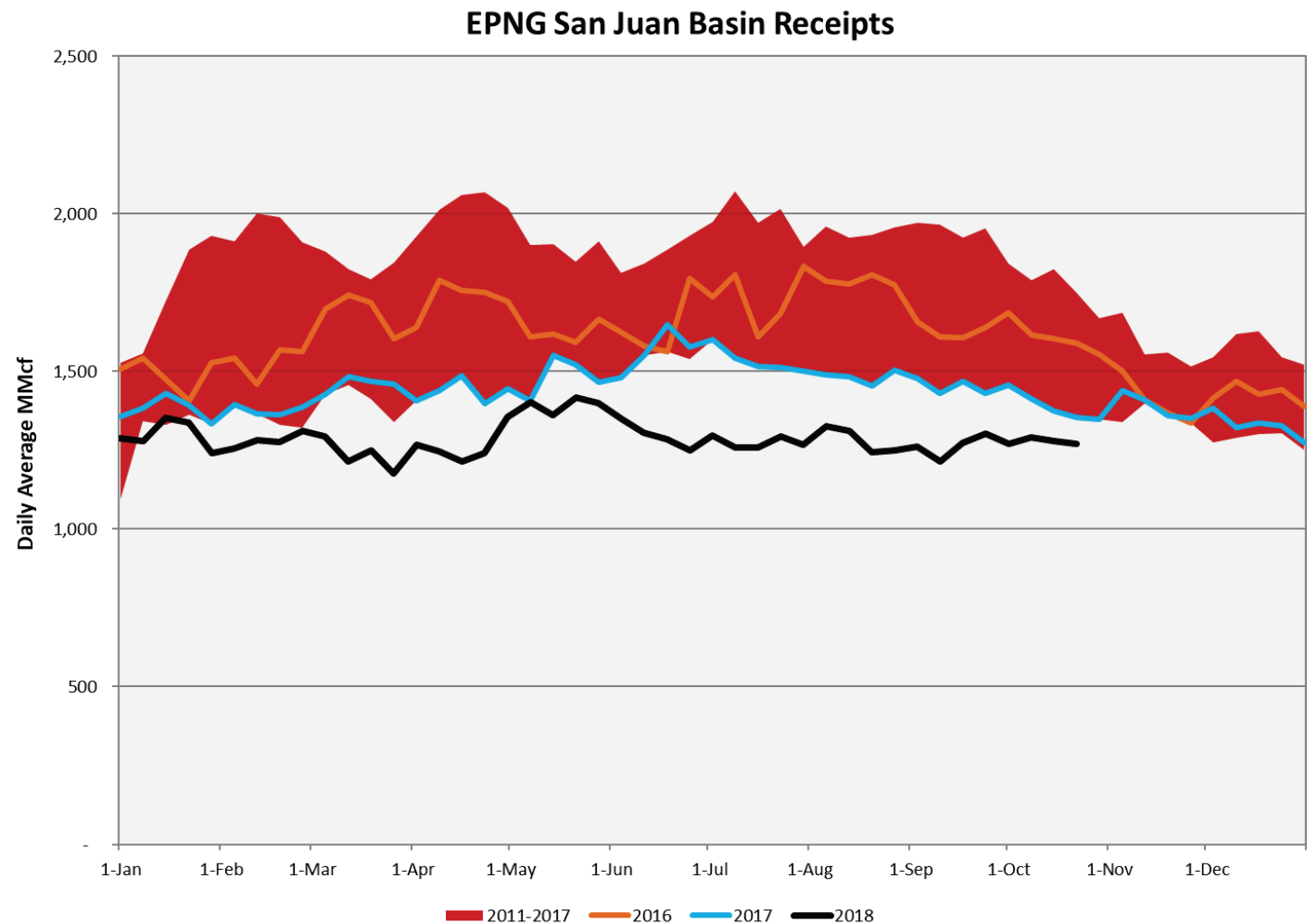
# EPNG Total System

## 2012-2018 Throughput Trends (MMcf/d)



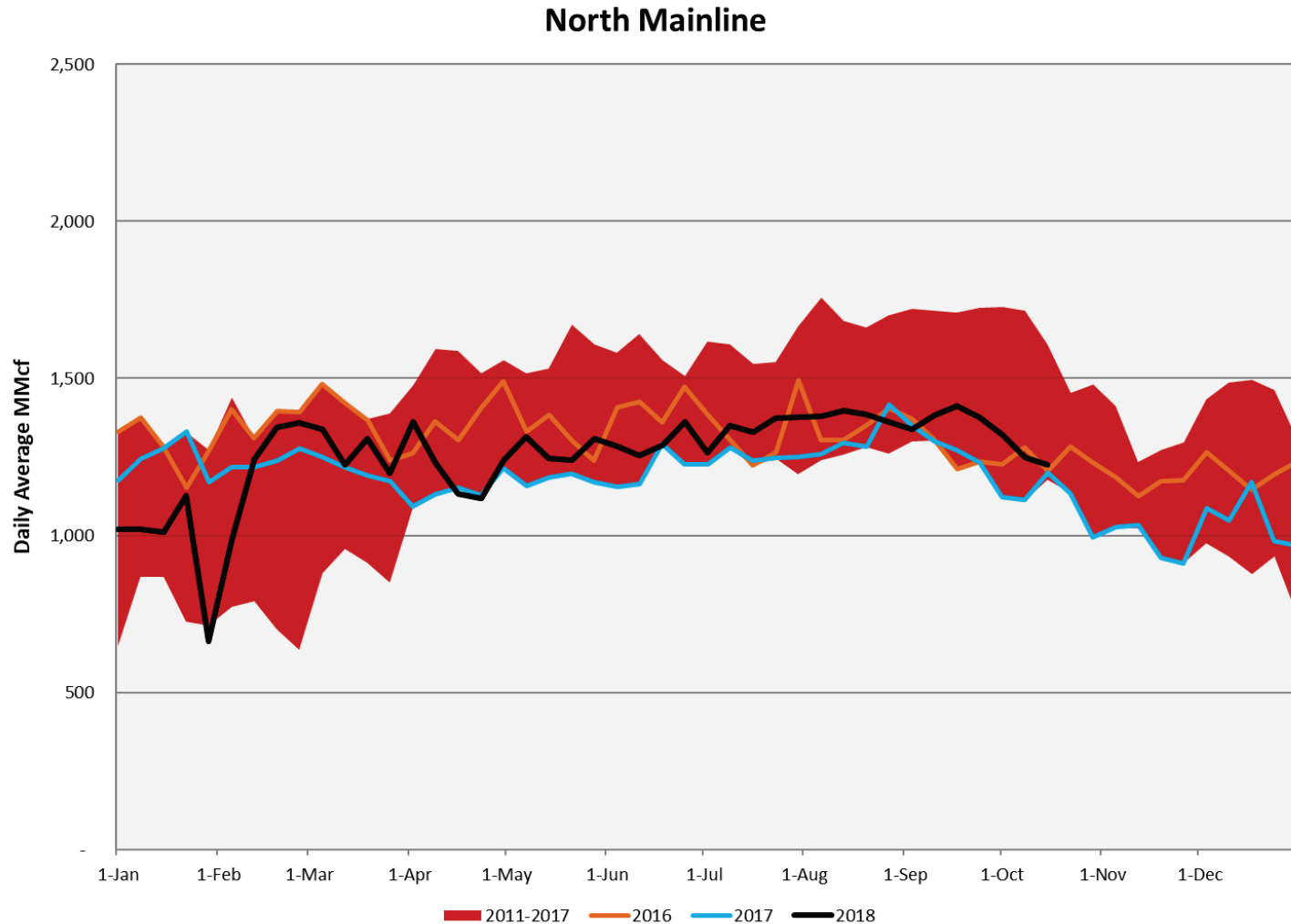
# San Juan Basin

## 2011-2018 Throughput Trends (MMcf/d)



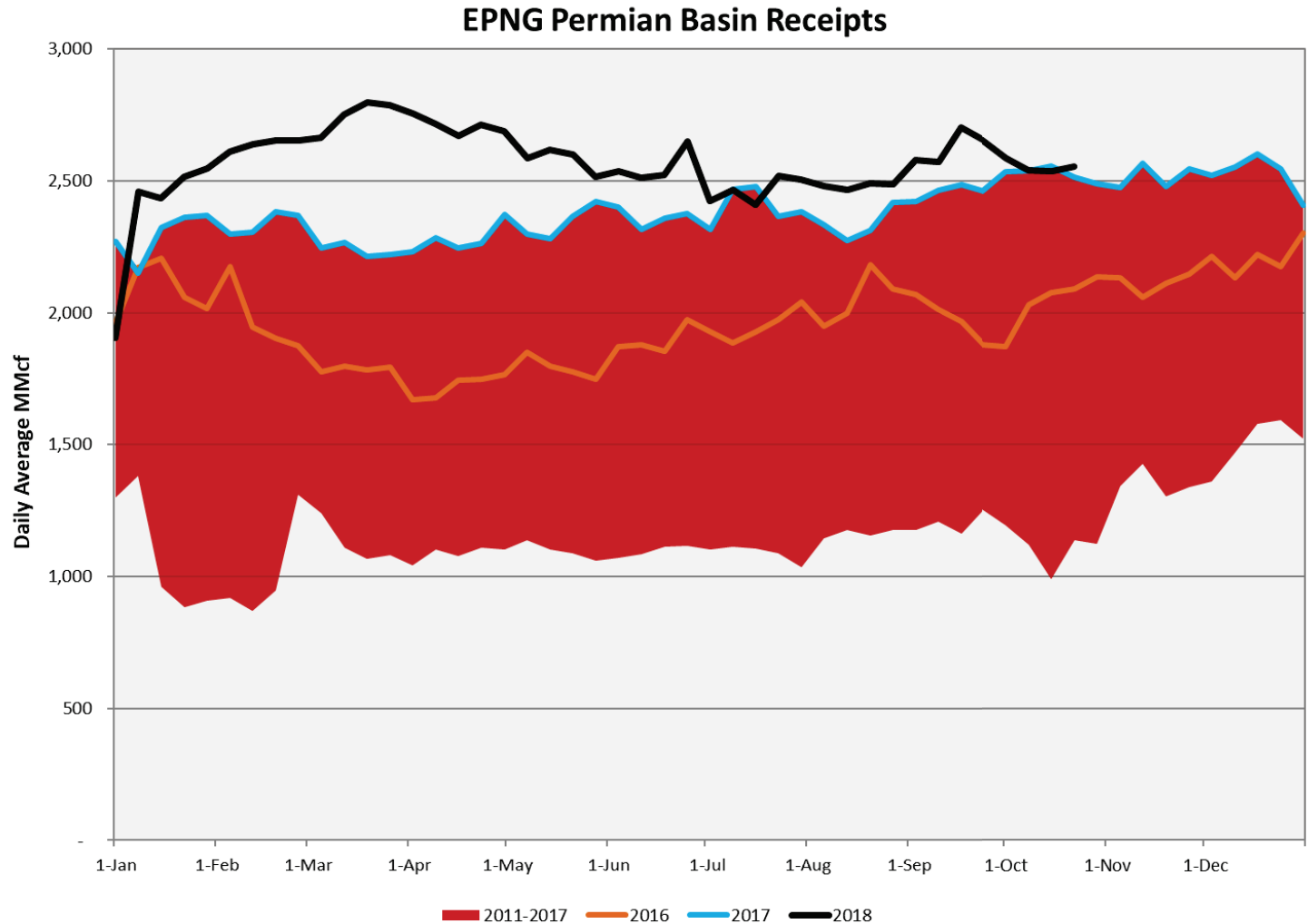
# North Mainline

2011-2018 Throughput Trends (MMcf/d)



# Permian Basin

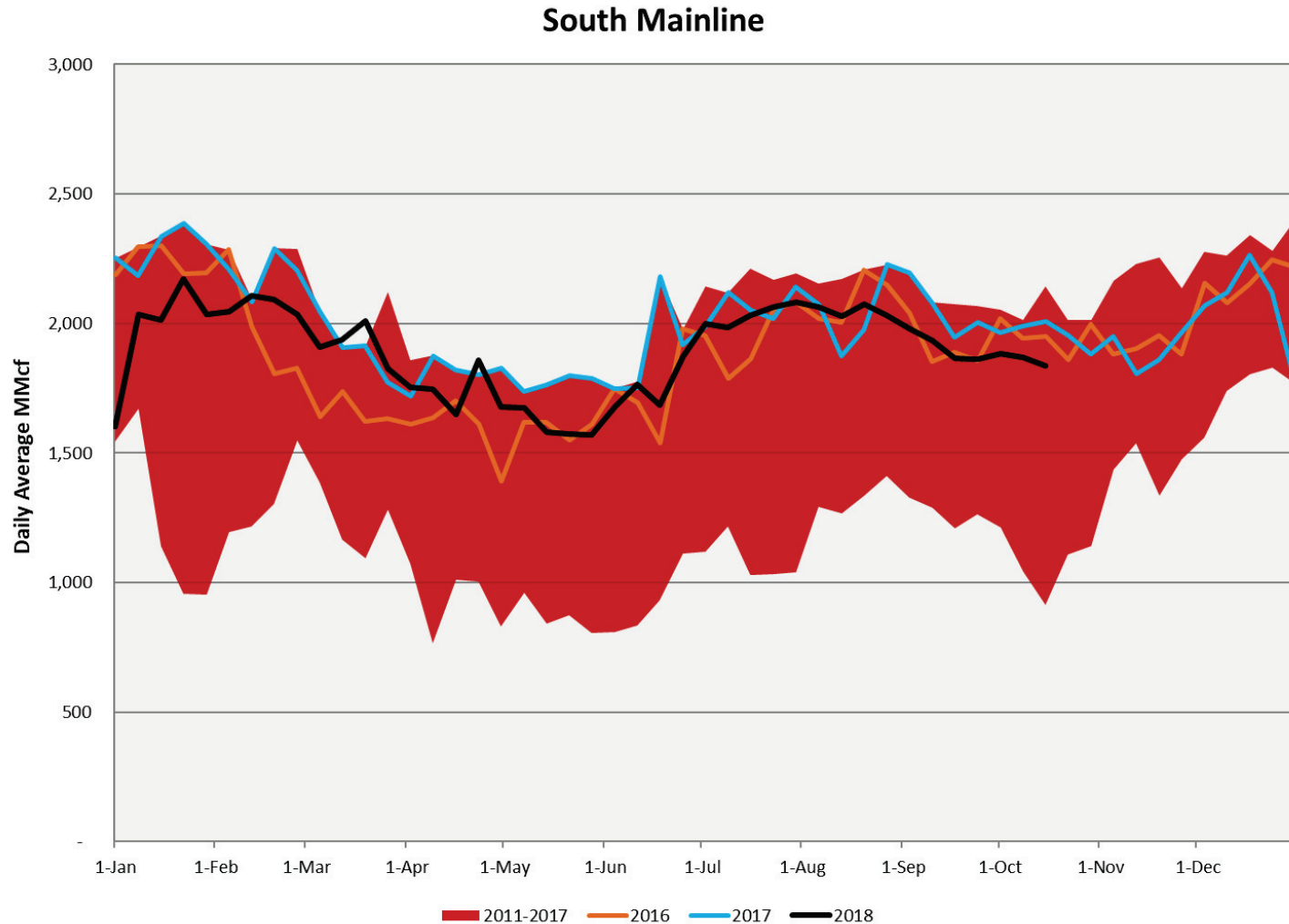
2011-2018 Throughput Trends (MMcf/d)





# South Mainline

2011-2018 Throughput Trends (MMcf/d)



# Emergency Communications

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- Shipper and Stakeholder Mass Communication
  - EBB Notices
  - Emails to shipper-maintained group email addresses
  - Telephone message sent by EPNG to emergency contacts
  - System Status Hotline (1-855-762-0100) parties can call for a recorded status of the system (updated as needed throughout an event)
- Standard critical notice to promote quicker action
- Banner on internet homepage to alert users to an emergency

# Winter Preparedness Plans

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## ● Staffing

- Gas Control is 24 x 7 x 365.
- Field technicians are on-site or on-call.

## ● Local Facility preparation (Begin about November 1<sup>st</sup>)

- Vehicle inspections – prepare vehicles for cold weather.
- Two-Way Radio functional tests
- Facility inspections with focus on weatherproofing.
  - Heat tracing, heat lamps, thermal blankets, etc.
- Snow Removal Equipment Inspection (Where applicable)
- Assessment of back-up power needs (existing stand-by generation and rental generators as deemed necessary).

# Winter Preparedness Plans (Cont)

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## ● Communication and Coordination

- Customer-specific winter preparedness meetings or communications.
- Monitor Weather Forecast.
- Conference Calls between Gas Control and Operations to discuss preparations.
- Shipper and Stakeholder Mass Communication via EBB notices and text messages.
- Shipper-Specific Communications.

## ● Operational Response

- Multiple flow paths for supply to reach the market.
- Access to supply area storage: Washington Ranch, Keystone Gas Storage and Merchant Ranch Storage.
- EPNG has developed excellent working relationships with both affiliated and non-affiliated interconnecting pipelines which provide additional layers of contingency management in responding to emergency situations.

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# Maintenance Planning Process and Communication

# Maintenance Planning Process

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## Annual Maintenance Planning Process

- July/August – Process Begins
  - Review of annually recurring maintenance
  - Development of Pipeline Integrity project list for the next year.
  - Development of additional O&M and project related maintenance outages for the next year.
- October
  - Gas Control preliminary review.
  - Project Planning Meeting with Project Engineering , Pipeline Engineering and Operations to review global schedule.
- November
  - Gas Control Review of Global Schedule .
  - Operations meetings/concalls to resolve scheduling conflicts.
  - Preliminary capacity impact analysis by System Design for larger outages.
  - Approval of Annual Plan.
- Communication to Customers
  - December 15 - Annual Plan for 1<sup>st</sup> Quarter posted to EBB.
  - Mid-March - Annual Plan updated for the remainder of the year posted to the EBB.

# Maintenance Planning Process

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## Communication to Customers

### ● Annual Maintenance Plan

- December 15 - Annual Plan for 1<sup>st</sup> Quarter posted to EBB.
- Mid-March - Annual Plan updated for the remainder of the year posted to the EBB.
- Updated as required throughout the year.

### ● Monthly Maintenance

- Monthly schedule posted 9 business days before the following month.
- Updated as required prior to and during the month.

### ● EBB

- EPNG - <http://pipeportal.kindermorgan.com/PortalUI/DefaultB.aspx?TSP=EPNG>
- Mojave - <http://pipeportal.kindermorgan.com/PortalUI/DefaultB.aspx?TSP=MOPC>
- Sierrita - <http://pipeportal.kindermorgan.com/PortalUI/DefaultKM.aspx?TSP=SGP>

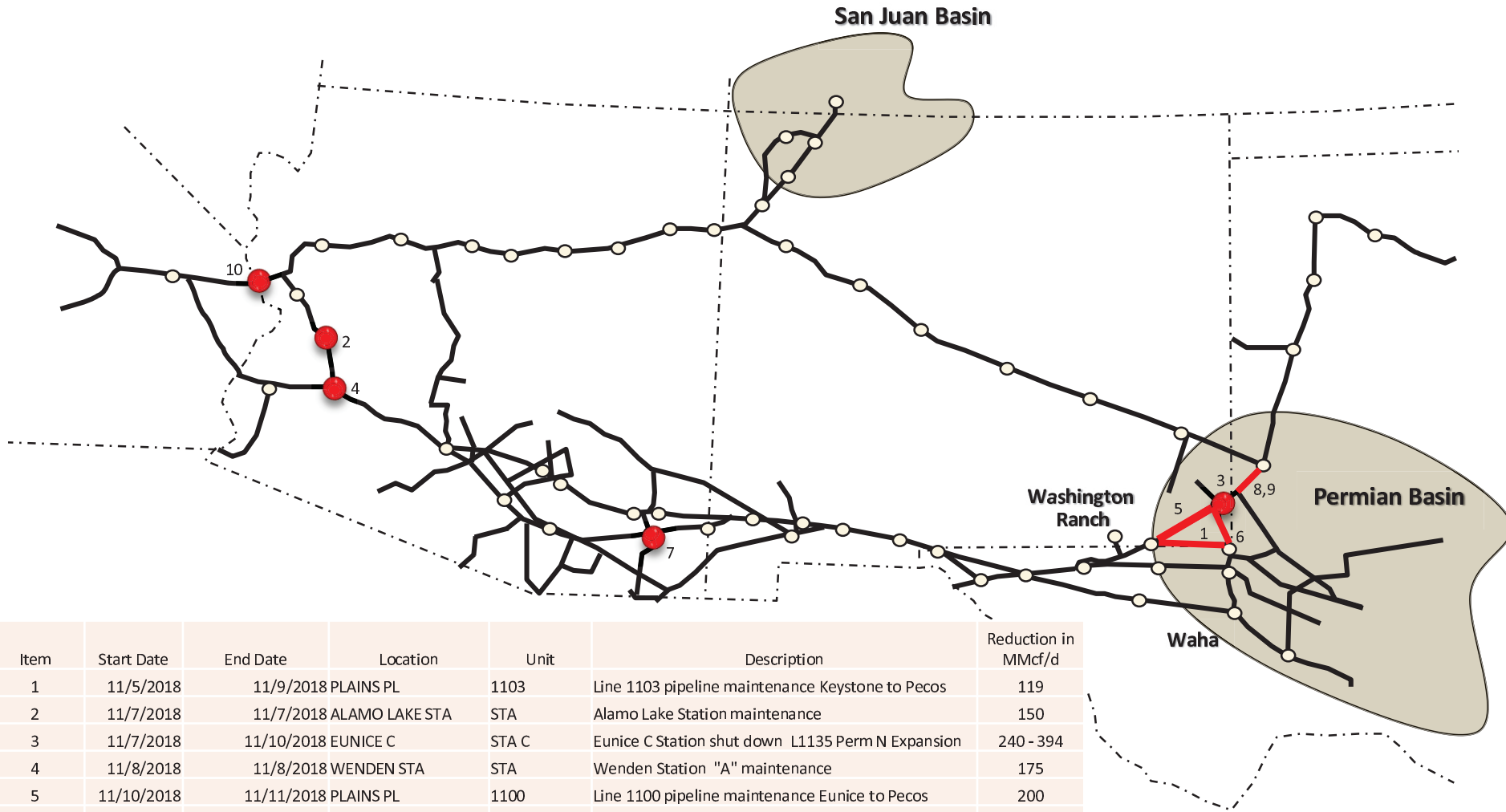
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# Planned Maintenance

## Nov 2018 – Dec 2018



# November - December Maintenance Highlights



Item	Start Date	End Date	Location	Unit	Description	Reduction in MMcf/d
1	11/5/2018	11/9/2018	PLAINS PL	1103	Line 1103 pipeline maintenance Keystone to Pecos	119
2	11/7/2018	11/7/2018	ALAMO LAKE STA	STA	Alamo Lake Station maintenance	150
3	11/7/2018	11/10/2018	EUNICE C	STA C	Eunice C Station shut down L1135 Perm N Expansion	240 - 394
4	11/8/2018	11/8/2018	WENDEN STA	STA	Wenden Station "A" maintenance	175
5	11/10/2018	11/11/2018	PLAINS PL	1100	Line 1100 pipeline maintenance Eunice to Pecos	200
6	11/10/2018	11/13/2018	PLAINS PL	30125/1119	L30125 pipeline install OPP Perm N expansion	285
7	11/13/2018	11/15/2018	WILLCOX STA	1A	Willcox 1A inspection	125
8	11/16/2018	11/16/2018	MONUMENT STA	STA	Permian North Expansion - Monument Area Outages	121
9	11/16/2018	11/16/2018	PLAINS PL	3070	Permian North Expansion - L3070 Outages	121
10	11/27/2018	11/29/2018	MOJAVE STA	1A	Mojave Unit #1 Maintenance	117

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# Gas Control Contacts

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- **Russ Pyeatt - Manager**
  - (719) 520-3729 (office)
  - (505) 320-4556 (cell)
  - russ\_pyeatt@kindermorgan.com
- **Dan English - Lead Controller**
  - (719) 520-4722 (office)
  - (719) 659-3210 (cell)
  - dan\_english@kindermorgan.com
- **Vic Villalva - Maintenance Planner**
  - (719) 520-4251 (office)
  - (719) 482-6914 (cell)
  - vic\_villalva@kindermorgan.com