

# NGPL Pipeline Operations Review

November 2022

Rob Perkins – Vice President, Gas Control

Brian Merchant – Director, Gas Control

Kenny Robbins – Manager, Gas Control

# Agenda

- Introduction
- NGPL Gas Control Team
- System Overview
- Winter 2021/2022 Lookback
- Summer 2022 review
- Storage Update
- Winter Readiness
- Contact List

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# NGPL Gas Control Team

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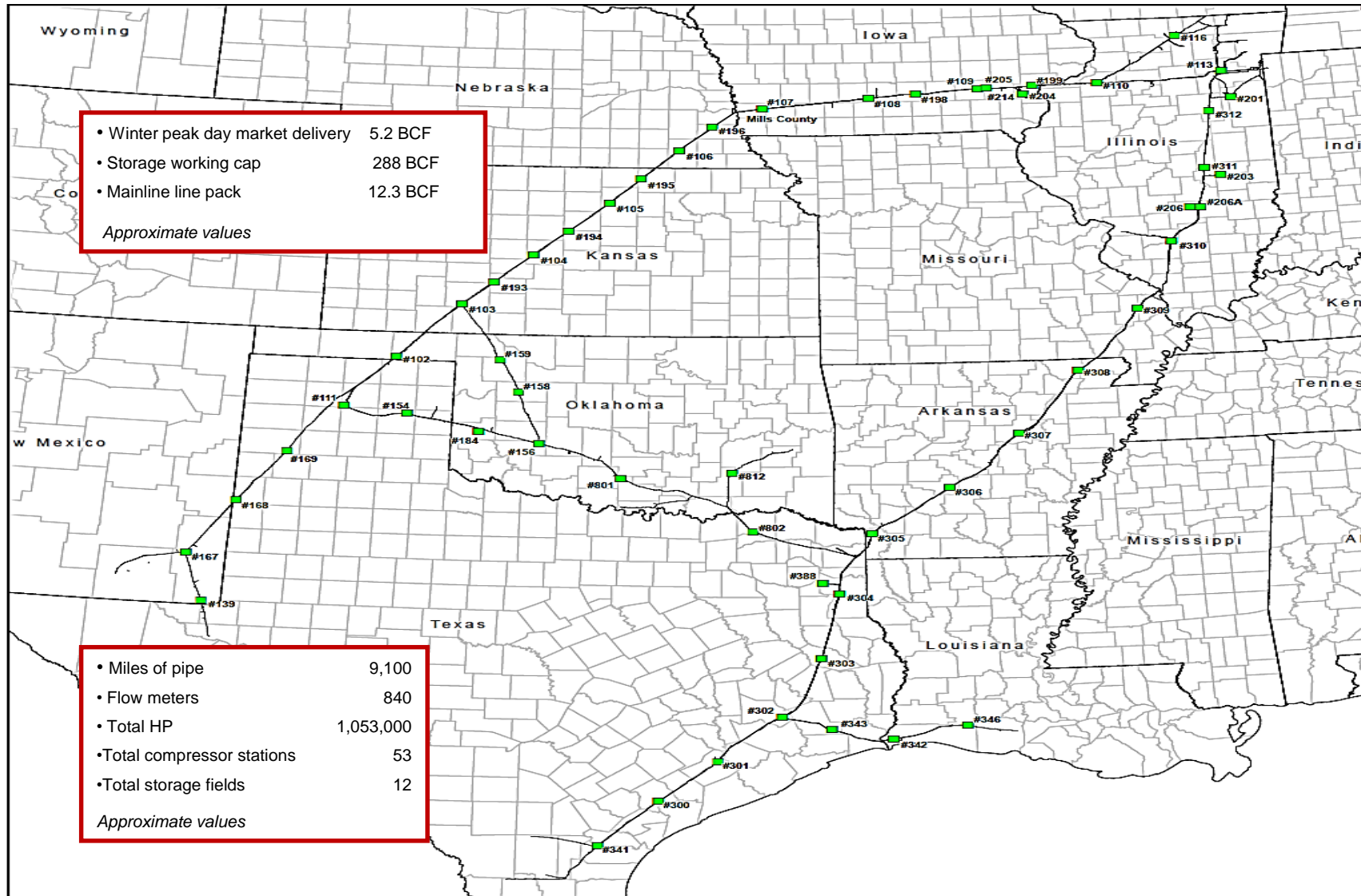
- NGPL Gas Control Director
  - Brian Merchant
  
- NGPL Gas Control Manager
  - Kenny Robbins
  
- Lead Controllers
  - Mark Krowski
  - Kyle Lumpkin
  
- Controllers
  - Chris Brisco
  - Juan Flores
  - Chuck Ifezue
  - Kyle McDonald
  - Sean Pendleton
  - Colton Rustin
  - Paul Schroeder
  
- Outage Coordinator
  - Brandon Fitch

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# System Overview

# NGPL System Map



# Annual Average Daily Deliveries – System

	<u>*2020</u>	<u>*2021</u>	<u>*2022</u>	<u>Change</u>
LDC	1,964	1,946	1,967	1%
LNG	676	1,260	1,485	18%
Interconnects	1,111	1,030	822	-20%
Power	362	289	304	5%
Industrial	54	55	58	5%
Mexico	142	90	17	-81%
<b>TOTAL</b>	<b>4,309</b>	<b>4,670</b>	<b>4,653</b>	<b>0%</b>

Volumes are MDth/d

\*Through September

# Annual Average Daily Deliveries – Market Area

	<u>*2020</u>	<u>*2021</u>	<u>*2022</u>	<u>Change</u>
LDC	1,960	1,941	1,962	1%
Power	294	194	191	-2%
Interconnects	87	62	72	16%
Industrial	43	44	43	-2%
<b>TOTAL</b>	<b>2,384</b>	<b>2,241</b>	<b>2,268</b>	<b>1%</b>

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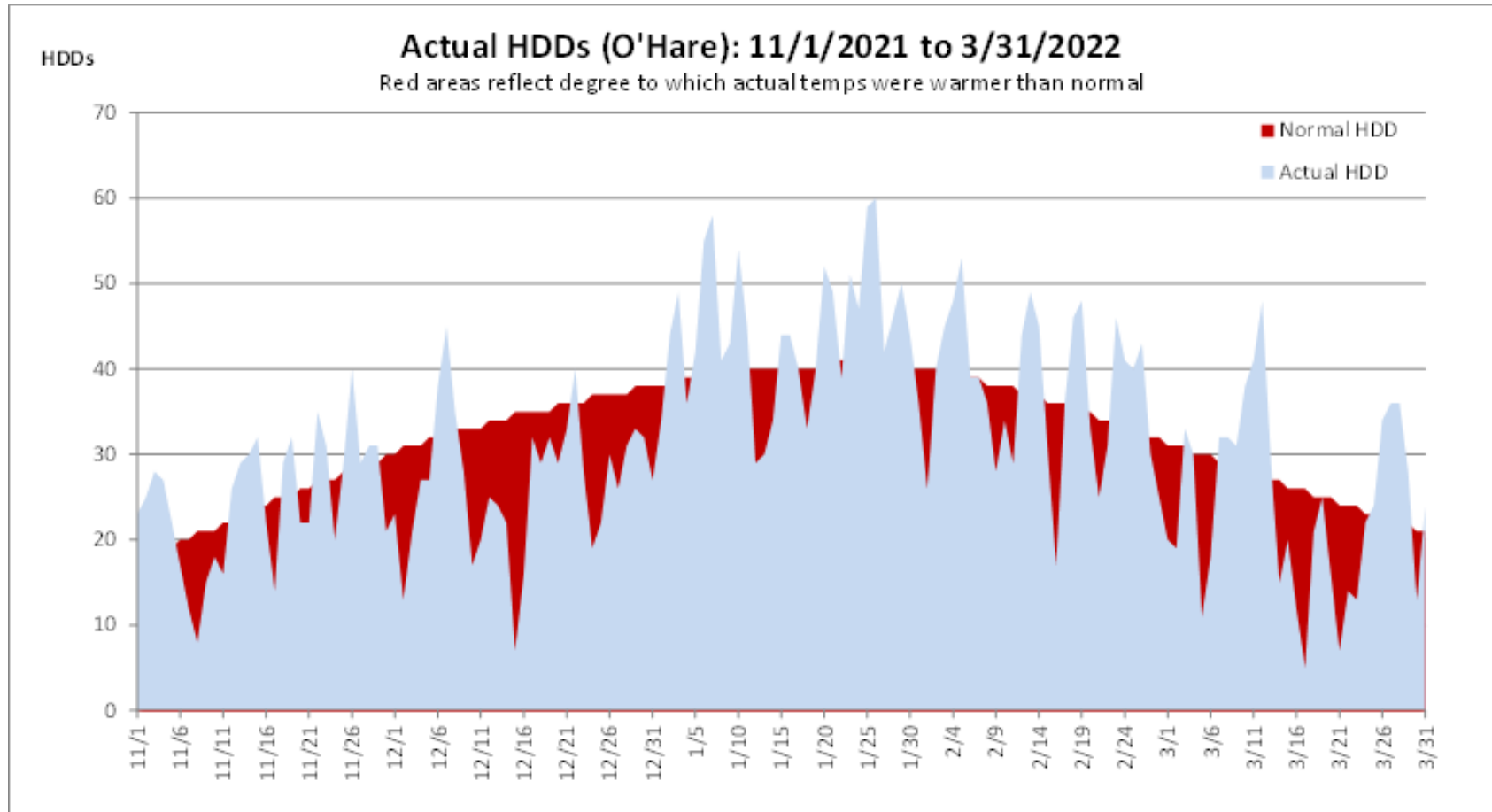
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# Winter 2021/2022 Lookback

## Winter 2021-22 Recap

- Winter season slightly warmer than normal in the Midwest Market Area
- During periods of extended colder than normal weather, the system functioned as designed
  - No pressure issues in the Market Delivery Zone
  - Compressor stations staffed 24x7, as needed
- Winter season demand picked up substantially in January after relatively mild end to 2021
  - Winter 21/22 total throughput up 6% compared to Winter 20/21 driven by strong LNG deliveries
    - Winter 21/22 LNG deliveries were up 37% compared to previous winter
    - New LNG daily delivery record – 1.8 MMDth/d (11/27/2021)
- Storage assets were heavily utilized
  - New daily storage withdrawal record
  - New monthly storage withdrawal record
- OFOs were issued in accordance with Natural's Tariff to protect system integrity and primary firm services, including firm no-notice services

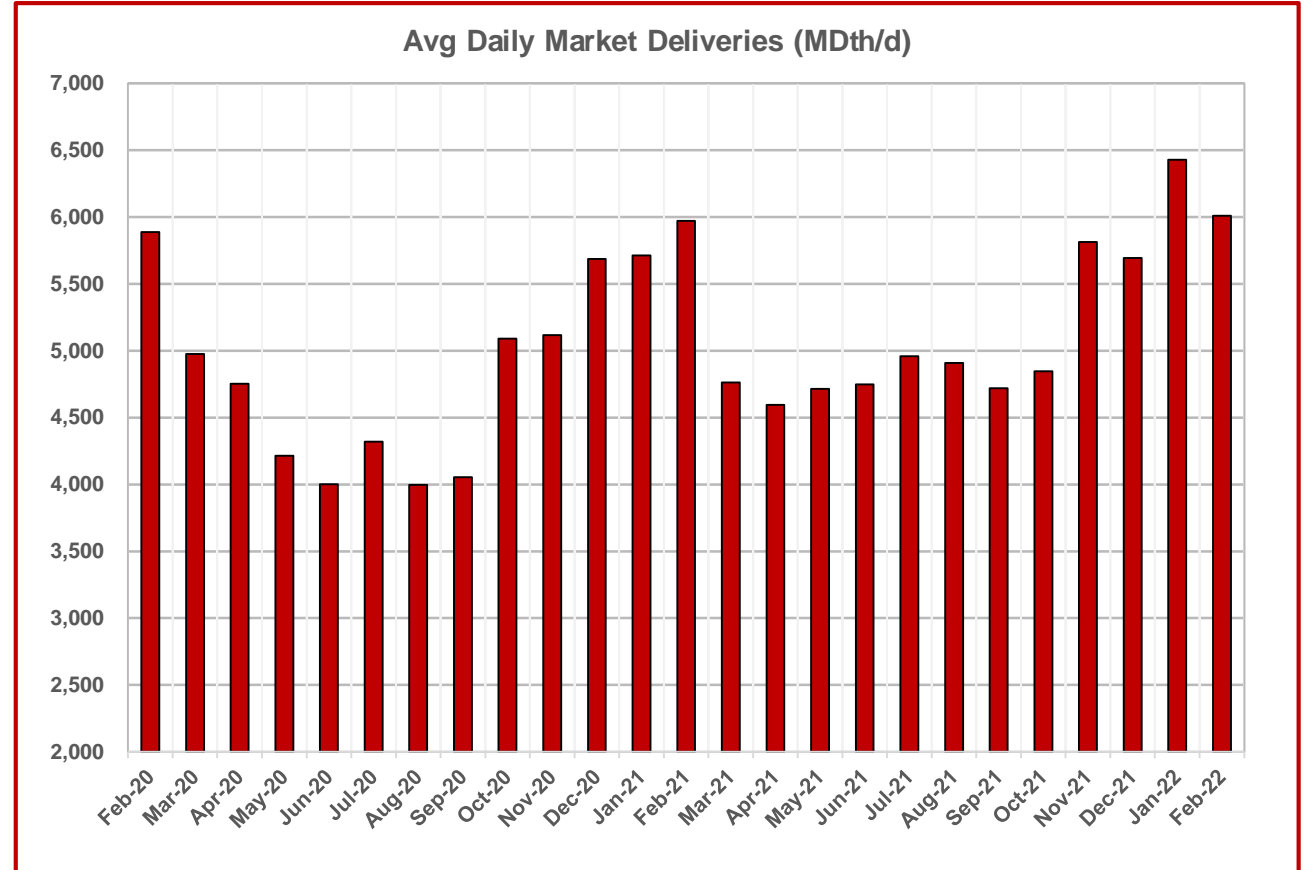
# Winter Weather 2021-22



<b>HDDs - 2021/2022</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Total</b>
Actual	736	831	1370	1047	747	4731
<b>New Normal (1991-2020)</b>	713	1071	1234	1016	808	4842
(warmer)/colder	23	(240)	136	31	(61)	(111)
% of normal	103%	78%	111%	103%	92%	97.7%

# Winter System Deliveries

	2022 Nov - Mar	2021 Nov - Mar	% Change
LDC	2,732	2,582	6%
LNG	1,553	1,133	37%
Interconnects	928	1,091	-15%
Power	493	453	9%
Industrial	58	54	7%
Mexico	17	128	-86%
<b>Total Market</b>	<b>5,782</b>	<b>5,442</b>	<b>6%</b>
Storage Injections	219	223	-1%



# Winter Market Area Deliveries

	<u>2020/21</u>	<u>2021/22</u>	<u>Change</u>
LDC	2,545	2,705	6%
Power	103	161	56%
Interconnects	129	140	9%
Industrial	45	44	-2%
<b>TOTAL</b>	<b>2,822</b>	<b>3,050</b>	<b>8%</b>

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# Summer 2022 Review

- Summer System Wide and Market Area Deliveries down slightly from previous summer
  - Declines in LDC and Pipeline Interconnect Deliveries were offset somewhat by the increase in LNG Demand
  - Power demand was flat compared to 2021
- Total Storage inventory slightly higher than last year
  - Slower start to 2022 Injection Season
  - Injections started increasing in August and peaked in September
  - Market injections are on schedule
- 2022 Maintenance projects should be completed early November

# Summer System Wide Deliveries

	<u>*2021</u>	<u>*2022</u>	<u>Change</u>
LDC	1,638	1,556	-5%
LNG	1,319	1,460	11%
Interconnects	1,001	777	-22%
Power	349	360	3%
Industrial	56	57	2%
Mexico	67	16	-76%
<b>TOTAL</b>	<b>4,430</b>	<b>4,226</b>	<b>-5%</b>

Volumes are MDth/d

\*Through September



# Summer Market Area Deliveries

	<u>*2021</u>	<u>*2022</u>	<u>Change</u>
LDC	1,635	1,552	-5%
Power	242	220	-9%
Industrial	44	43	-2%
Interconnects	24	25	4%
<b>TOTAL</b>	<b>1,945</b>	<b>1,840</b>	<b>-5%</b>

Volumes are MDth/d

\*Through September

# 2022 Outage Summary

<u>Type</u>	<u>2022</u>	<u>2021</u>	<u>2020</u>
Integrity	177	143	220
O&M	<u>195</u>	<u>224</u>	<u>252</u>
System Total	372	367	472
Market Area and Storage	126	99	71
Amarillo projects	136	156	201
GC projects	110	117	200
Posted	119	80	182
Posted with Impact	50	33	41

- While some outages are immediate and/or unavoidable, where possible NGPL makes every attempt to minimize the duration of outages and consolidate work to limit the number of outages and minimize the impact to shippers.
- Kinder Morgan has dedicated mechanical and project teams available, in addition to outside contract support.

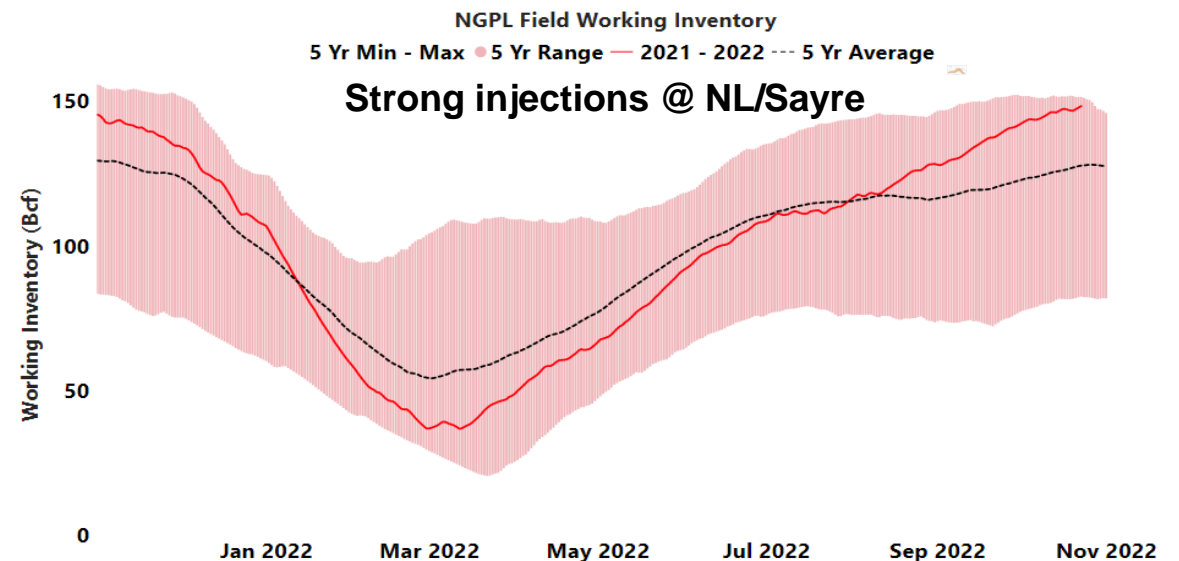
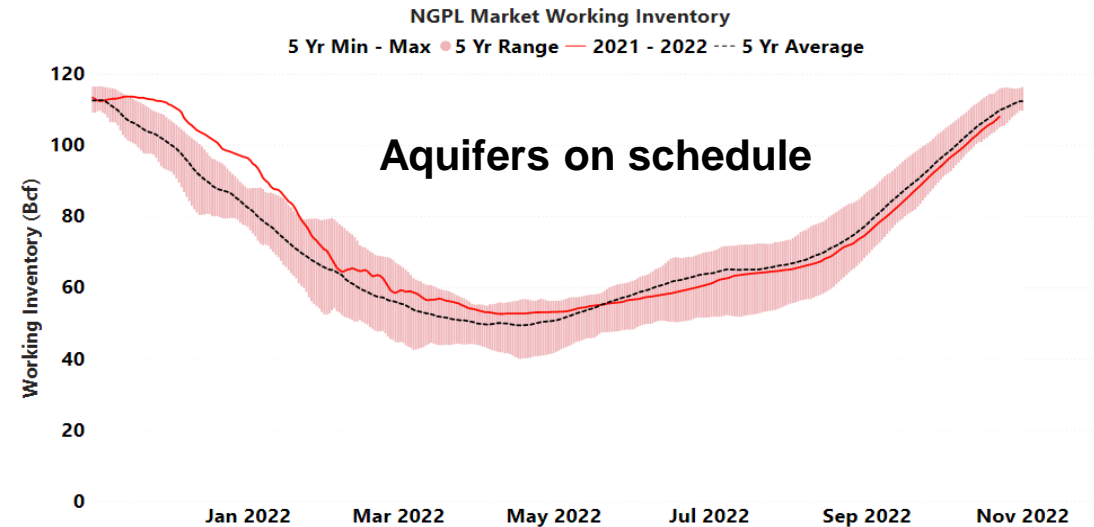
- The following table shows the typical timeline to receive results after a pig run is completed:

Type of In-Line Inspection Tool	# of weeks to determine a successful run	# of weeks to Preliminary Report	# of weeks to Final Aligned Report
MFL	1 - 2	3 - 4	8 - 13
AFD	2 - 3	3 - 4	12 - 16
EMAT	2 - 3	N/A	17 - 30

# Storage Update

# NGPL Gas Storage Inventory Update

- **2022 Update**
  - Slower start to injection season
  - Strong Injections in September/October
  - All storage field maintenance projects on target to be completed prior to withdrawal season
- **2022 Winter Outlook**
  - Market fields on pace to achieve target inventory levels
  - Market Injections expected to continue in November
  - Field Inventory on pace to be near full on October 31<sup>st</sup>



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# Winter Readiness

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- Market Area storage inventory projected at target inventory level
- Market Area maintenance projects to be completed by early November
  - No expected impact
- Expected pipeline operations:
  - Market Area receipts remain consistent
  - Traditional supply basins:
    - Texok to Market capacity is sold out, but operational capacity may be available
    - Midcontinent to Market capacity is fully-subscribed
- Expect scheduling restrictions to be implemented to protect storage fields, delivery pressures and line pack, as necessary
  - Possible limitations may include, but are not limited to:
    - Scheduling for unexpected outages
    - Hourly Rights restrictions
    - Point level or area OFOs
    - Withdrawals limited to WQ rights



# Winter Checklist

- Compression
  - Test run all compressor units prior to increased demand due to colder weather
- Storage
  - All storage fields are ready for winter
    - Field Storage expected to be approximately 90% full
- Pipeline
  - Maintain line pack targets by area
  - Maintain throughput targets
  - Maintain pressures for key areas
  - Field Ops to man key sites
- Scheduled Maintenance
  - Limit planned maintenance activities to those required by regulation or policy
- Customer Communication
  - NGPL posts system capacity and outage information
  - NGPL Scheduling Representatives and Account Directors are available for questions

# Contact List

# Contact List

## Gas Control

Emer 800-733-2490

24 hr.. 713-369-9400

[#GC-NGPL@kindermorgan.com](mailto:#GC-NGPL@kindermorgan.com)

Kenny Robbins

713-369-9432

Cell 832-588-3901

Mark Krowski

713-369-9131

Cell 832-414-1493

Brian Merchant

713-420-5867

Cell 713-206-0590

Rob Perkins

713-420-5675

Cell 205-527-0650

## Transport and Stor Services

TSS Hotline

24 hr. 713-369-9683

Renee Lewis

713-369-9317

Cell 713-294-7523

Richard Williams

713-369-9283

Cell 713-819-1748

Gina Mabry

713-420-3685

Cell 281-744-8666

## Account Services

Dave Weeks

630-725-3030

Cell 630-399-1193

Lakann James

713-420-4882

Cell 405-613-8281

Mary Limbaugh(NGPL Mgmt. Team)

713-420-4576

Cell 972-672-4809

## Field Operations

Dean Eaton

815-272-9104

Cell 937-733-3143

Ron Bessette

713-420-6012

Cell 413-313-4380

Ken Grubb

713-369-8763

Cell 281-702-1210

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