

Moomba Sydney Pipeline



Legend

- DS** Delivery Stream (APA convention)
- Scheme Pipeline section
- Non-Scheme Pipeline section
- Single direction flow
- Bi-direction flow
- Trade Point

Naming convention:

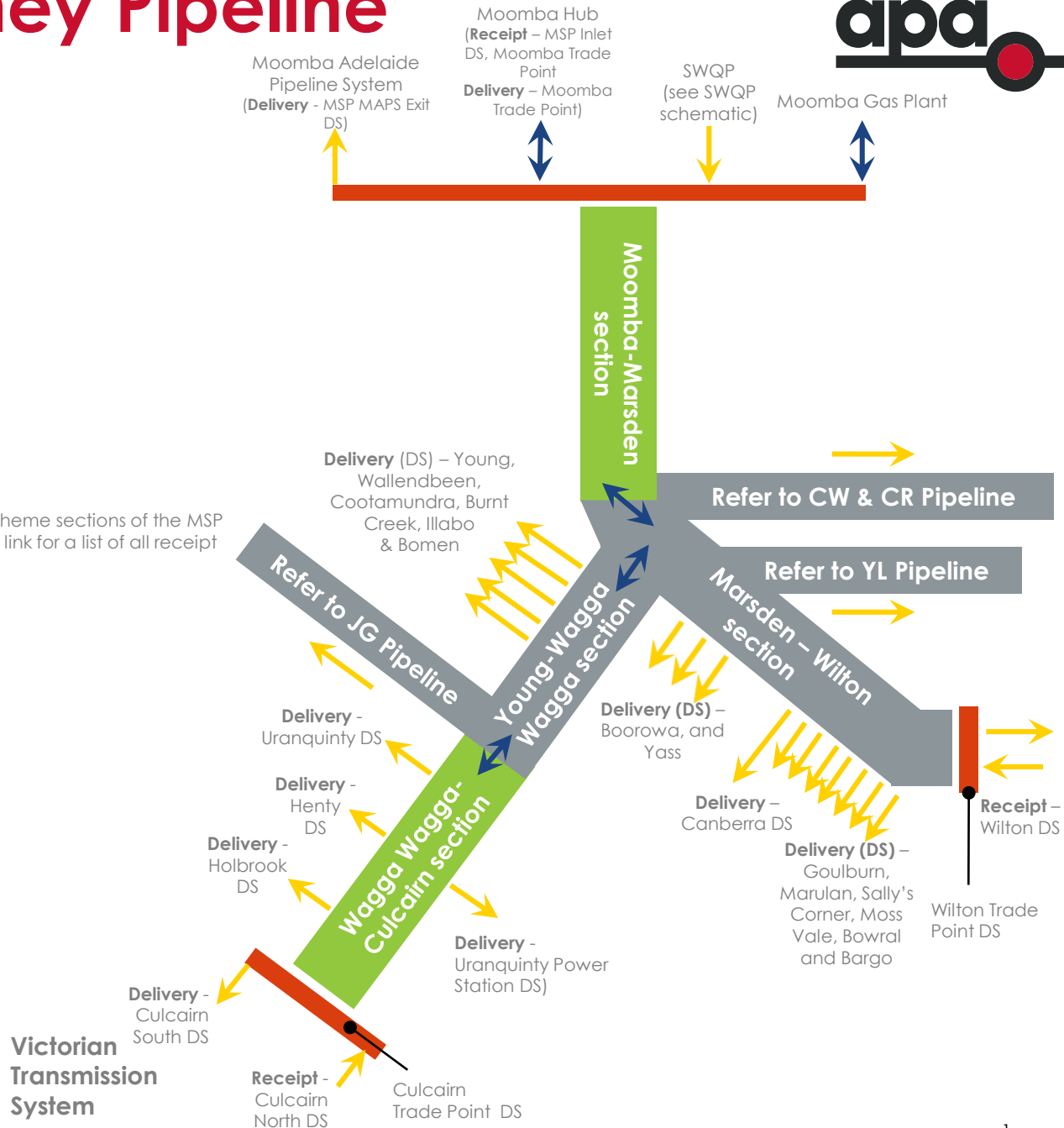
Connecting Facility
(Delivery / Receipt point)

Note: receipt and delivery points on the Non-scheme and scheme sections of the MSP are displayed on this schematic. Please refer to the following link for a list of all receipt and delivery points on the pipeline

http://capacitytrading.apa.com.au/MSP_Schematics.pdf

Nameplate Capacity

Refer to next slide.



Moomba Sydney Pipeline



Note: Green shading represents non-Scheme sections.
Grey shading represents Scheme pipeline sections.

Nameplate Capacity

Moomba-Marsden Section

| | |
|----------------------------------|----------|
| Southernhaul (Moomba to Marsden) | 446 TJ/D |
| Northernhaul (Marsden to Moomba) | 193 TJ/D |

Wagga Wagga-Culcairn Section

| | |
|--|----------|
| Southernhaul (Wagga Wagga to Culcairn) | 170 TJ/D |
| Northernhaul (Culcairn to Wagga Wagga) | 223 TJ/D |

Nameplate Capacity

Marsden - Wilton Section

| | |
|----------------------------------|----------|
| Southernhaul (Marsden to Wilton) | 446 TJ/D |
| Northernhaul (Wilton to Marsden) | 193 TJ/D |

Young – Wagga Section

| | |
|-------------------------------------|----------|
| Southernhaul (Young to Wagga Wagga) | 170 TJ/D |
| Northernhaul (Wagga Wagga to Young) | 223 TJ/D |

| Receipt Point Pressures | | |
|--------------------------|---|---|
| | Point | Value |
| Min Pressures | Moomba Low Pressure Trade Point (MLPTP) | 6,400 kPa |
| | MGP | 6,400 kPa |
| | Marsden | The pressure in the Pipeline has no defined limits. |
| | Culcairn North | 8,600 kPa or as directed by APA/AEMO |
| | Culcairn Trade point | 8,600 kPa or as directed by APA/AEMO |
| | Wagga Wagga | 1,750 kPa |
| | Wilton | 3,800 kPa |
| | Wilton Trade point | 3,800 kPa |
| Max Pressures | Moomba Low Pressure Trade Point (MLPTP) | 7,240 kPa |
| | MGP | 7,240 kPa |
| | Marsden | 9,400 kPa |
| | Culcairn North | 10,200 kPa |
| | Culcairn Trade point | 10,200 kPa |
| | Wagga Wagga | 8,503 kPa |
| | Wilton | 5,700 kPa |
| | Wilton Trade point | 5,700 kPa |
| Delivery Point Pressures | | |
| Min Pressures | Moomba Low Pressure Trade Point (MLPTP) | 6,400 kPa |
| | MAPS | The pressure required to enter the MAPS from time to time |
| | MGP | The pressure required to enter the Moomba Gas Plant |
| | Marsden | 3,600 kPa |
| | Culcairn South | 5,500 kPa or as directed by APA/AEMO (for flows to VTS) |
| | Culcairn Trade point | 5,500 kPa |
| | Wagga Wagga | 1,750 kPa |
| | Henty | 1,750 kPa |
| | Uranquinty | 1,750 kPa |
| | Uranquinty PS | 2,800 kPa |
| | Holbrook | 1,750 kPa |
| | Canberra | 2,400 kPa |
| | Boorowa, | 1,750 kPa |
| | Yass | 1,750 kPa |
| | Goulburn | 1,750 kPa |
| | Marulan | 1,750 kPa |
| | Sally's Corner | 1,750 kPa |
| | Moss Vale | 1,750 kPa |
| | Bowral | 1,750 kPa |
| | Bargo | 1,750 kPa |
| | Wilton | 3,800 kPa |
| | Wilton Trade point | 3,800 kPa |
| | Young | 1,750 kPa |
| | Wallendbeen | 1,750 kPa |
| | Cootmundra | 1,750 kPa |
| | Burnt Creek | 1,750 kPa |
| Illabo | 1,750 kPa | |
| Bomen | 1,750 kPa | |

Note: Grey shading represents Scheme pipeline sections.

| Delivery Point Pressures | Point | Value |
|--------------------------|---|------------|
| Max Pressures | Moomba Low Pressure Trade Point (MLPTP) | 7,240 kPa |
| | MAPS | 6,200 kPa |
| | MGP | 7,240 kPa |
| | Marsden | 5,500 kPa |
| | Culcairn South | 10,200 kPa |
| | Culcairn Trade point | 10,200 kPa |
| | Wagga Wagga | 10,200 kPa |
| | Henty | 10,200 kPa |
| | Uranquinty | 10,200 kPa |
| | Uranquinty PS | 10,200 kPa |
| | Holbrook | 10,200 kPa |
| | Canberra | 5,700 kPa |
| | Boorowa, | 5,700 kPa |
| | Yass | 5,700 kPa |
| | Goulburn | 5,700 kPa |
| | Marulan | 5,700 kPa |
| | Sally's Corner | 5,700 kPa |
| | Moss Vale | 5,700 kPa |
| | Bowral | 5,700 kPa |
| | Bargo | 5,700 kPa |
| | Wilton | 5,700 kPa |
| | Wilton Trade point | 5,700 kPa |
| | Young | 8,503 kPa |
| | Wallendbeen | 8,503 kPa |
| | Cootmundra | 8,503 kPa |
| | Burnt Creek | 8,503 kPa |
| | Illabo | 8,503 kPa |
| | Bomen | 8,503 kPa |

| Locational MDQs | | |
|----------------------------|--------------------------------|--|
| Receipt Point MDQs | Moomba Hub | refer to MSP Nameplate capacity Southernhaul |
| | MGP | refer to MGP Nameplate capacity |
| | Marsden | refer to MSP Nameplate capacity Northernhaul |
| | Culcairn North | 223 TJ/d |
| | Culcairn Trade point | refer to Culcairn North capacity |
| | Wagga Wagga | 170 TJ/d |
| | Wilton | 360 TJ/d |
| Wilton Trade point | 360 TJ/d | |
| Delivery Point MDQs | Moomba Hub | refer to MSP Nameplate capacity Northernhaul |
| | MAPS | refer to MSP Nameplate capacity Northernhaul |
| | MGP | refer to MSP Nameplate capacity Northernhaul |
| | Marsden | refer to MSP Nameplate capacity Southernhaul |
| | Culcairn South | 170 TJ/d |
| | Culcairn Trade Point | refer to Culcairn South capacity |
| | Wagga Wagga | 223 TJ/d |
| | Henty | Refer to Gate Station Capacity |
| | Uranquinty | Refer to Gate Station Capacity |
| | Uranquinty PS | 200 TJ/d |
| | Holbrook | Refer to Gate Station Capacity |
| | Canberra | 52 TJ/d |
| | Boorowa | Refer to Gate Station Capacity |
| | Yass | Refer to Gate Station Capacity |
| | Goulburn | Refer to Gate Station Capacity |
| | Marulan | Refer to Gate Station Capacity |
| | Sally's Corner | Refer to Gate Station Capacity |
| | Moss Vale | Refer to Gate Station Capacity |
| | Bowral | Refer to Gate Station Capacity |
| | Bargo | Refer to Gate Station Capacity |
| | Wilton | 300 TJ/d |
| | Wilton Trade point | 300 TJ/d |
| Young | Refer to Gate Station Capacity | |
| Wallendbeen | Refer to Gate Station Capacity | |
| Cootmundra | Refer to Gate Station Capacity | |
| Burnt Creek | 9 TJ/d | |
| Illabo | 10 TJ/d | |
| Bomen | Refer to Gate Station Capacity | |

Young-Lithgow Pipeline

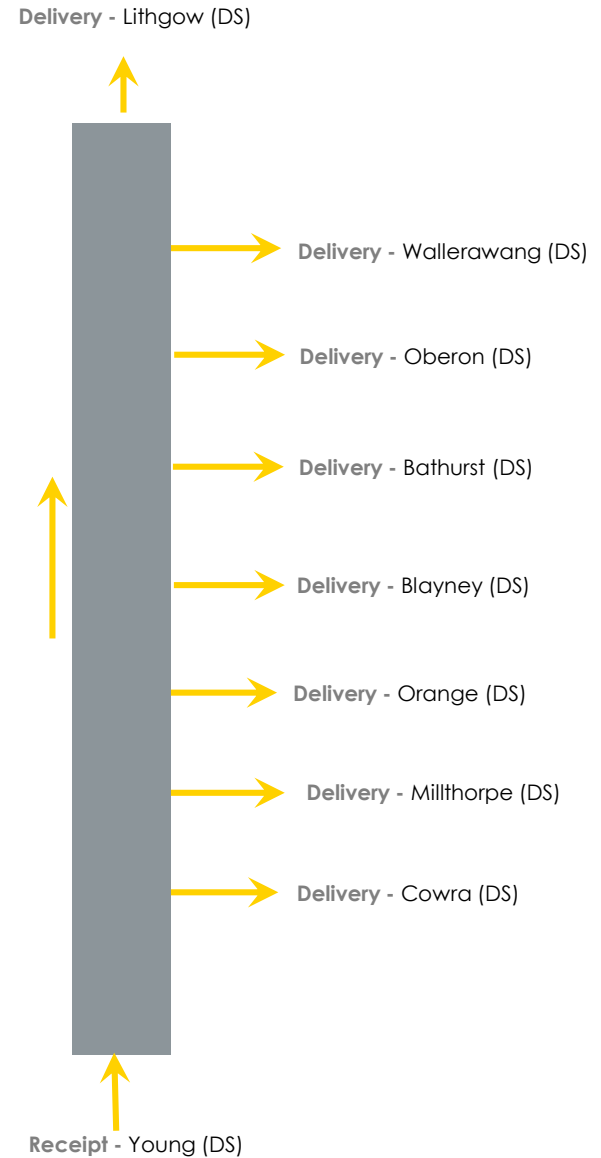


Legend

- DS** Delivery Stream (APA convention)
- Scheme Pipeline section
- Non-Scheme Pipeline section
- Single direction flow
- Bi-direction flow
- Trade Point

Naming convention:
 Connecting Facility
 (Delivery / Receipt point)

| Nameplate Capacity | |
|--------------------|---------|
| Young to Lithgow | 25 TJ/d |








| | Point | Value |
|---------------------------------|-------------|-------------------------------------|
| Receipt Point Pressures | | |
| Min Pressures | Young | 3,500 kPa |
| Max Pressures | Young | 9,930 kPa |
| Delivery Point Pressures | | |
| Min Pressures | Cowra | 1,750 kPa |
| | Millthorpe | 1,750 kPa |
| | Orange | 1,750 kPa |
| | Blayney | 1,750 kPa |
| | Bathurst | 1,750 kPa |
| | Oberon | 1,750 kPa |
| | Wallerawang | 1,750 kPa |
| | Lithgow | 1,750 kPa |
| Max Pressures | Cowra | 9,930 kPa |
| | Millthorpe | 9,930 kPa |
| | Orange | 9,930 kPa |
| | Blayney | 9,930 kPa |
| | Bathurst | 9,930 kPa |
| | Oberon | 9,930 kPa |
| | Wallerawang | 9,930 kPa |
| | Lithgow | 9,930 kPa |
| Locational MDQs | | |
| Receipt Point MDQs | Young | Refer to Young Name plate capacity. |
| Delivery Point MDQs | Cowra | Refer to Gate Station Capacity |
| | Millthorpe | Refer to Gate Station Capacity |
| | Orange | Refer to Gate Station Capacity |
| | Blayney | Refer to Gate Station Capacity |
| | Bathurst | Refer to Gate Station Capacity |
| | Oberon | Refer to Gate Station Capacity |
| | Wallerawang | Refer to Gate Station Capacity |
| | Lithgow | Refer to Gate Station Capacity |

Note: Grey shading represents Scheme pipeline sections.

Junee – Griffith Pipeline



legend

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-  Scheme Pipeline section
-  Non-Scheme Pipeline section
-  Single direction flow
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-  Trade Point

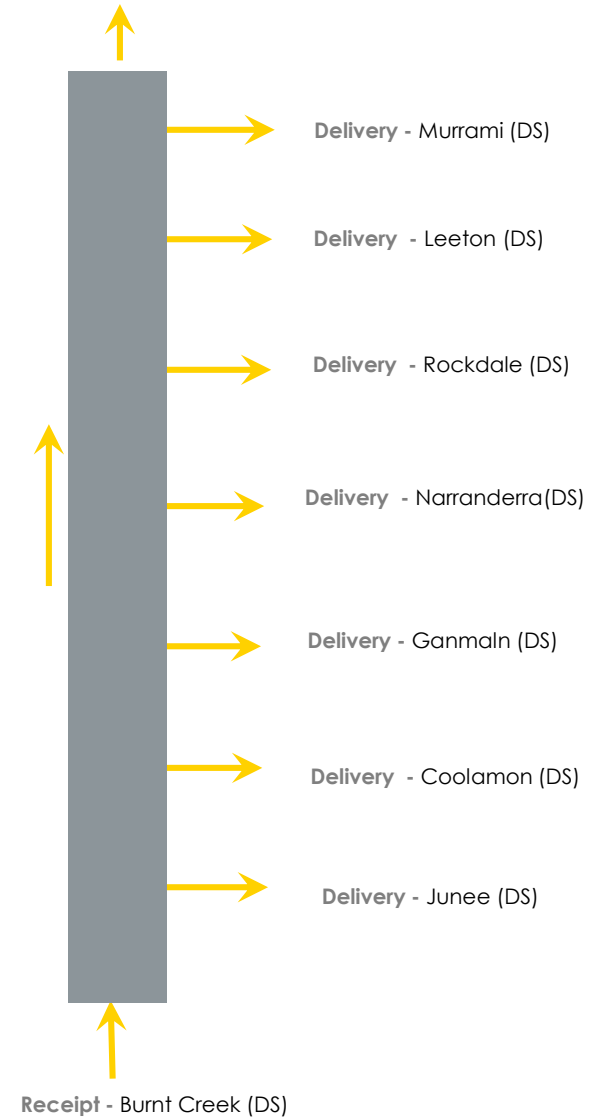
Naming convention:

Connecting Facility
(Delivery / Receipt point)

Nameplate Capacity

| | |
|-------------------|---------|
| Junee to Griffith | 13 TJ/d |
|-------------------|---------|

Delivery - Griffith (DS)



| | Point | Value |
|---------------------------------|-------------|--|
| Receipt Point Pressures | | |
| Min Pressures | Burnt Creek | 3,500 kPa |
| Max Pressures | Burnt Creek | 8,500 kPa |
| Delivery Point Pressures | | |
| Min Pressures | Junee | 1,750 kPa |
| | Coolamon | 1,750 kPa |
| | Ganmaln | 1,750 kPa |
| | Narranderra | 1,750 kPa |
| | Rockdale | 1,750 kPa |
| | Leeton | 1,750 kPa |
| | Murrami | 1,750 kPa |
| | Griffith | 1,750 kPa |
| Max Pressures | Junee | 5,800 kPa (MOP 10,200 kPa) |
| | Coolamon | 5,800 kPa (MOP 10,200 kPa) |
| | Ganmaln | 5,800 kPa (MOP 10,200 kPa) |
| | Narranderra | 5,800 kPa (MOP 10,200 kPa) |
| | Rockdale | 5,800 kPa (MOP 10,200 kPa) |
| | Leeton | 5,800 kPa (MOP 10,200 kPa) |
| | Murrami | 5,800 kPa (MOP 10,200 kPa) |
| | Griffith | 5,800 kPa (MOP 10,200 kPa) |
| Locational MDQs | | |
| Receipt Point MDQs | Burnt Creek | Refer to Junee – Griffith Name plate capacity. |
| Delivery Point MDQs | Junee | Refer to Gate Station Capacity (Jemena) |
| | Coolamon | Refer to Gate Station Capacity (Jemena) |
| | Ganmaln | Refer to Gate Station Capacity (Jemena) |
| | Narranderra | Refer to Gate Station Capacity (Jemena) |
| | Rockdale | Refer to Gate Station Capacity (Jemena) |
| | Leeton | Refer to Gate Station Capacity (Jemena) |
| | Murrami | Refer to Gate Station Capacity (Jemena) |
| | Griffith | Refer to Gate Station Capacity (Jemena) |

Note: Grey shading represents Scheme pipeline sections.