

25th September 2020



Eastern Gas Pipeline Joint Venture

Jemena Eastern Gas Pipeline (1) Pty Ltd
Jemena Eastern Gas Pipeline (2) Pty Ltd

Attn: Sheelagh Laguna
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Dear Sheelagh,

SSD-8184

Property: Corner of Widemere Road and Hassall Street, Wetherill Park (Lot 1 DP 515773, Lot 34 DP 657040, Lots 35 and 37 DP 3082, Lot 100 DP 1220637, Lots 1 and 2 DP 620755, Lot 1 DP 368374)

Proposal: SSD-8184 – Fairfield sustainable resource centre expansion

Jemena Asset Management Pty Ltd on behalf of Jemena Eastern Gas Pipeline (1) Pty Limited and Jemena Eastern Gas Pipeline (2) Pty Limited (collectively Jemena) has reviewed and assessed the SSD-8184 and makes the comments and recommendations with respect to the location, operation and identification potential threats to the high pressure pipeline for the proposed expansion adjacent to high pressure pipeline transporting dangerous goods in NSW as communicated in the ISEPP clause 66C and more recently the Planning Circular PS 18-010.

In assessing the development application, Jemena can confirm that it operates a high pressure transmission lateral pipeline, The Smithfield lateral part of the Eastern Gas Pipeline (EGP) is situated through the proposed development area. Gas pipeline particulars below:

- The Jemena Eastern Gas Pipeline (NSW Pipelines Act 1967 Licence 26) – Blue line (easement in red)



The EGP is a regulated pressure pipeline as defined under the Pipelines Act 1967.

The Smithfield Lateral (EGP) is a transmission gas pipeline, that in part, conveys gas from Horsley Park, to the Smithfield delivery for various industrial customers. The Eastern Gas Pipeline is operated in accordance with Australian Standard AS2885. AS2885 requires a risk review, Safety Management Study (SMS) of the pipeline operation if applicable where the land around a Pipeline and/or Facility has resulted in a change in land use and change in the risk exposure to the pipeline.

As the proposed development falls within the **Measured Length** of the, EGP high pressure pipeline.

*(A Pipeline's **Measurement Length** is defined in AS2885 as a radial distance from the Pipeline, calculated by determining the 4.7kW/m² heat radiation contour in an event of a full bore rupture event. The event causing this type of rupture is typically works related to external parties, unaware and not following Jemena's requirements. During this type of event, an unprotected person exposed to the radiation level for a short period of time is likely to experience severe burns and possible fatality. A Pipeline rupture also has the potential to impact the environment as well as destroy and damage surrounding buildings. Jemena has determined a **Measurement Length** of 766m applies to the EGP Pipeline. The Measurement Length is to be used to determine the appropriate type of land use and development occurring near the Pipelines)*

Jemena engineering assessment under AS2885

Based on AS2885.6 2018 section 2 . the existing land use is deemed T2.
The proposed land use is considered a High Consequence Area (HCA).

Location 1 – Lot 1 DP515773

- The proposed sediment pond #5 will require excavation adjacent to the easement. The threat of
- damage to the pipeline coating and possible pipeline damage by mechanical plant during
- construction must be considered.
- The water diversion bund crossing of the pipeline easement requires Jemena acceptance.
- A construction risk assessment will be required to review method of excavation and impact on the
- pipeline.
- The threat of easement erosion caused by water from the Primary spillway must be mitigated by the
- pond design.
- The threat of easement erosion caused by water from the Emergency spillway must be mitigated by
- the pond design.

Location 2 – Lot 35 DP3082

- The proposed earth works on Canal Road will required excavation adjacent to the easement. The
- threat of damage to the pipeline coating and possible pipeline damage by mechanical plant during
- construction must be considered.
- A construction risk assessment will be required to review method of excavation and impact on the
- pipeline.
- The threat of easement erosion caused by run off from the proposed hardstand on Canal Road
- must be mitigated by the design.

Location 3 – Lot 1 DP368374

- The proposed Flood compensation area will require excavation adjacent to the easement. The
- threat of damage to the pipeline coating and possible pipeline damage by mechanical plant during
- construction must be considered.
- A construction risk assessment will be required to review method of excavation and impact on the
- pipeline.
- The threat of easement erosion caused by water leaking from the Flood compensation area must
- be mitigated by the design.

Recommendations

Jemena recommends that a Safety Management Study (SMS) be conducted into the additional threats the development may infer on the pipelines and main. This study will identify additional physical controls that must be implemented to reduce the risk to the community in the event of a pipeline rupture.

Under AS2885 requirements, Jemena takes its rights and obligations under these instruments seriously as they relate to ensuring the ongoing safety and integrity of its mains/ pipelines and the community at large.

Duty of care exists to ensure there is no compromise to the integrity of the Jemena assets during this procedure due to the existing ground conditions that currently exist.

If you have any questions or queries about the Safety Management Study process, please do not hesitate to contact the undersigned.

Yours sincerely,



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Land Management

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