

Pipeline construction overview

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The pipeline would be installed using two main construction techniques, depending on the ground and surface conditions at certain points along the sewer corridor. The two main construction techniques are:

- open cut trenching: this method would be used for most of the project alignment where the works would occur in open space
- trenchless/micro tunnelling: this method would be used where the alignment passes under existing roads (such Companion Crescent, Kingsford Smith Drive and

Ginninderra Drive), major services or significant vegetation.

Open cut trenching

The photographs below show the process of open cut trenching. We will be progressively installing the pipeline in sections and all open trenches will be appropriately fenced off.

Trenchless/micro tunnelling

Trenchless technology such as “pipe jacking” involves the use of tunnelling equipment to excavate beneath the

ground and install the pipe. The advantage of this construction technique is that limited disturbance is made to the existing surface with the establishment of launch and receive pits. The launch pit allows the cutting head a place to commence drilling with the permanent sewer pipe segments also able to be fed and pulled. The receive pit allows the cutting head to be retrieved. Upon completion, manholes are constructed at both of the pit locations with backfilling of the remaining excavation area made.



Estimated construction timeline

CONSTRUCTION STAGE	INDICATIVE ESTIMATED TIMING
Site establishment and mobilisation Import materials to site laydown areas	January to February 2021 (5 weeks)
Earthworks and construction works for sewer line (open-cut trenching)	January to October 2021 (35 weeks)
Trenchless construction works for sewer line	February to June 2021 (14 weeks)
Earthworks and structural works for pipe bridge	February to June 2021 (18 weeks)
Construction of North Latham OCU	June to October 2021 (20 weeks)
Pre-commissioning	October to November 2021 (6 weeks)
Commissioning	November to December 2021 (6 weeks)
Site restoration	October to December 2021 (12 weeks)