Appendix E

Draft groundwater monitoring program

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The groundwater and surface water quality monitoring program would be finalised in consultation with the Department of Industries (Water), and would build upon, where appropriate, the existing groundwater monitoring network as detailed in the Technical Working Paper: Groundwater. The program would monitor groundwater and surface water impacts during tunnel operations on groundwater quality and wetlands. The groundwater and surface water quality monitoring program will developed in consultation with the Environment Protection Authority, DPI (Fisheries), DPI (Water) and relevant councils.

A draft network has been depicted on the map series dated 11 November 2015, and is subject to further review and obtaining any relevant approvals.

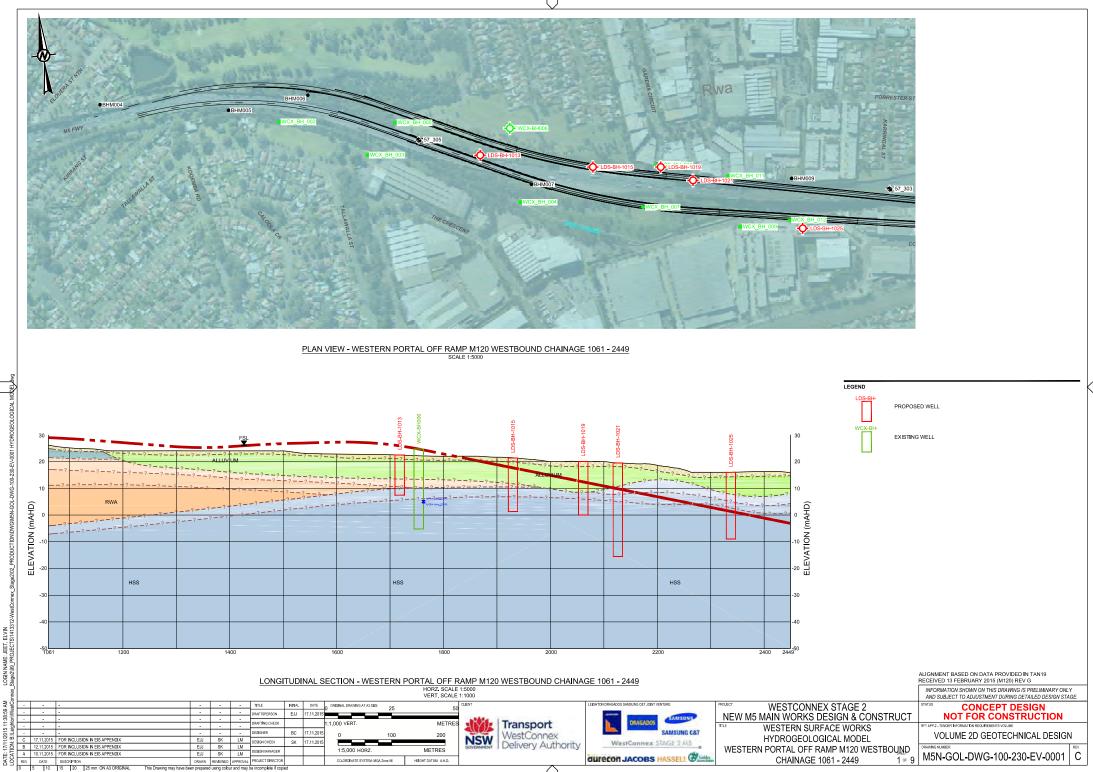
The program would include (but would not be limited to) monitoring of:

- Groundwater levels
- Groundwater analytes: Total Hydrocarbons (TRH(C6-C40)), benzene, toluene, ethylbenzene and xylenes (BTEX), Polycyclic Aromatic Hydrocarbons PAHs), Phenols, Organochlorine Pesticides, Organophosphorus Pesticides, Polychlorinated Biphenyls, heavy metals.
- Water Quality parameters: temperature, dissolved oxygen, conductivity, pH, ORP (Redox) and turbidity.

The wells for water quality sampling will be selected at targeted locations following future review of environmental sensitivity to potential groundwater impacts. Monitoring of groundwater levels would be undertaken at up to around 31 locations which are to be confirmed upon finalisation of the monitoring program.

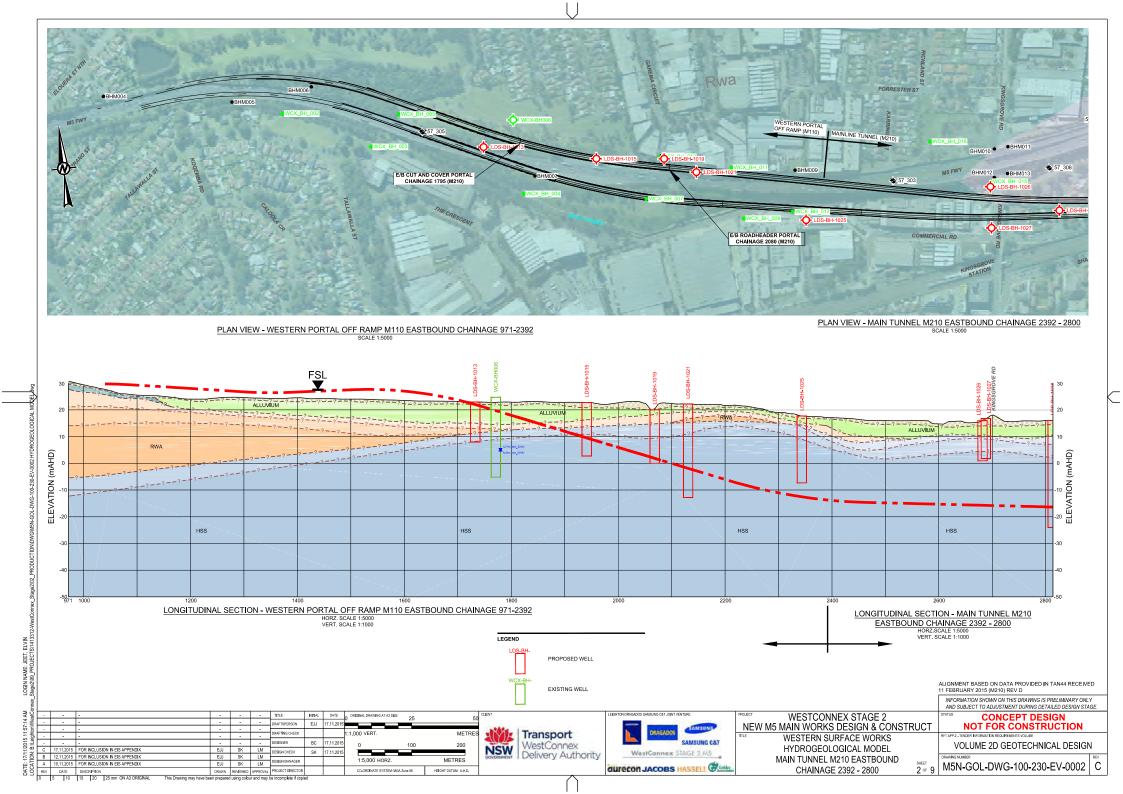
All well installations would consider the requirements of the NSW Aquifer Interference Policy.

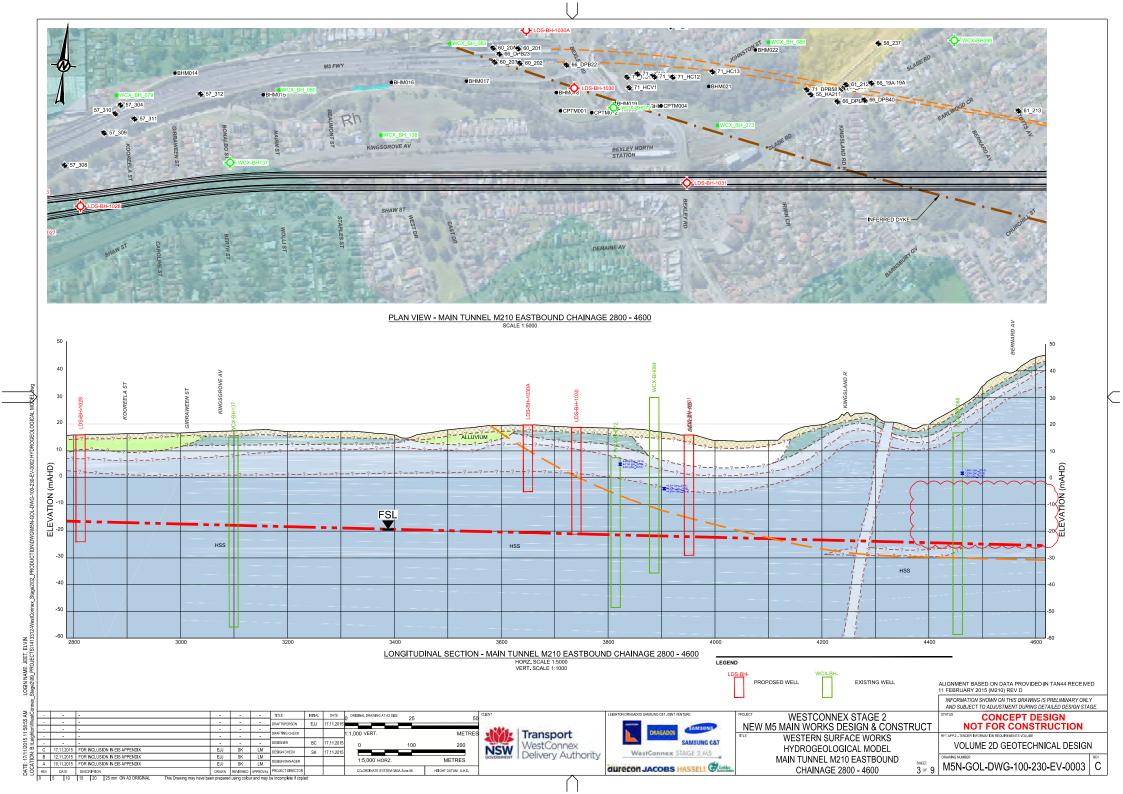
Groundwater monitoring would commence prior to the commencement of construction (baseline monitoring) and would continue during construction. Monitoring would continue post the completion of construction. Six monthly groundwater monitoring should occur for three years after the tunnel becomes operational after which the requirement for on-going monitoring will be assessed.

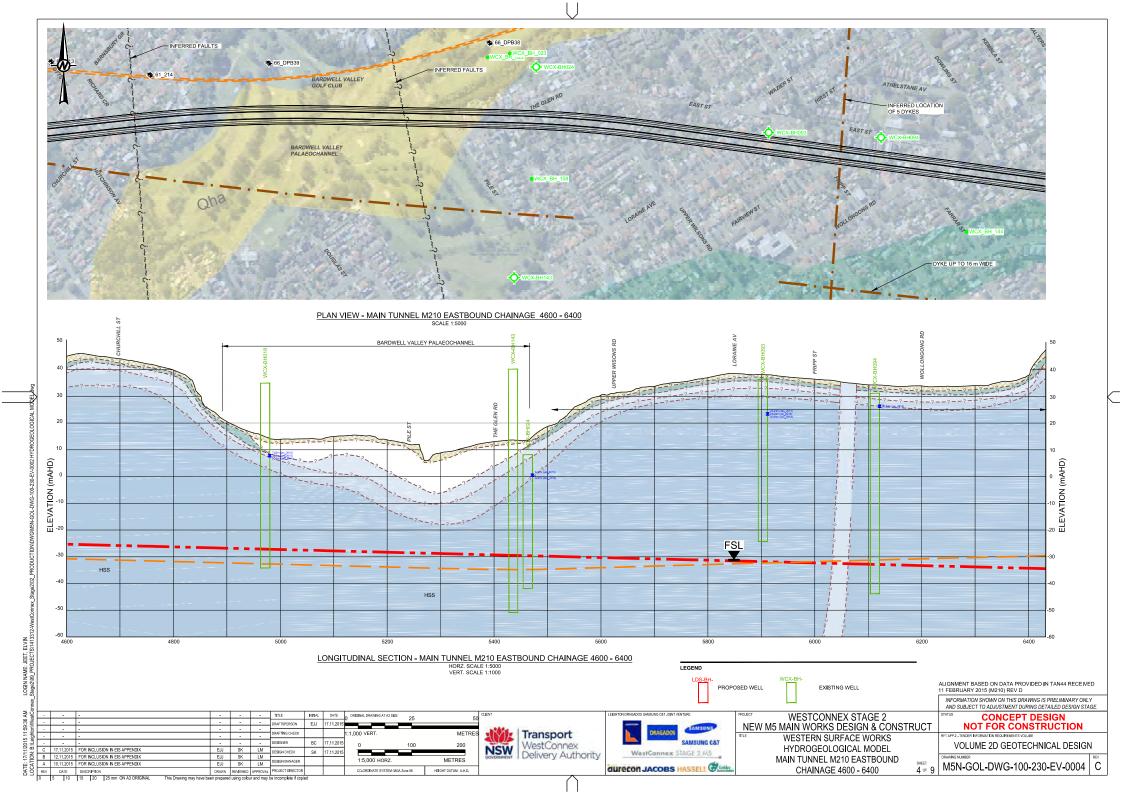


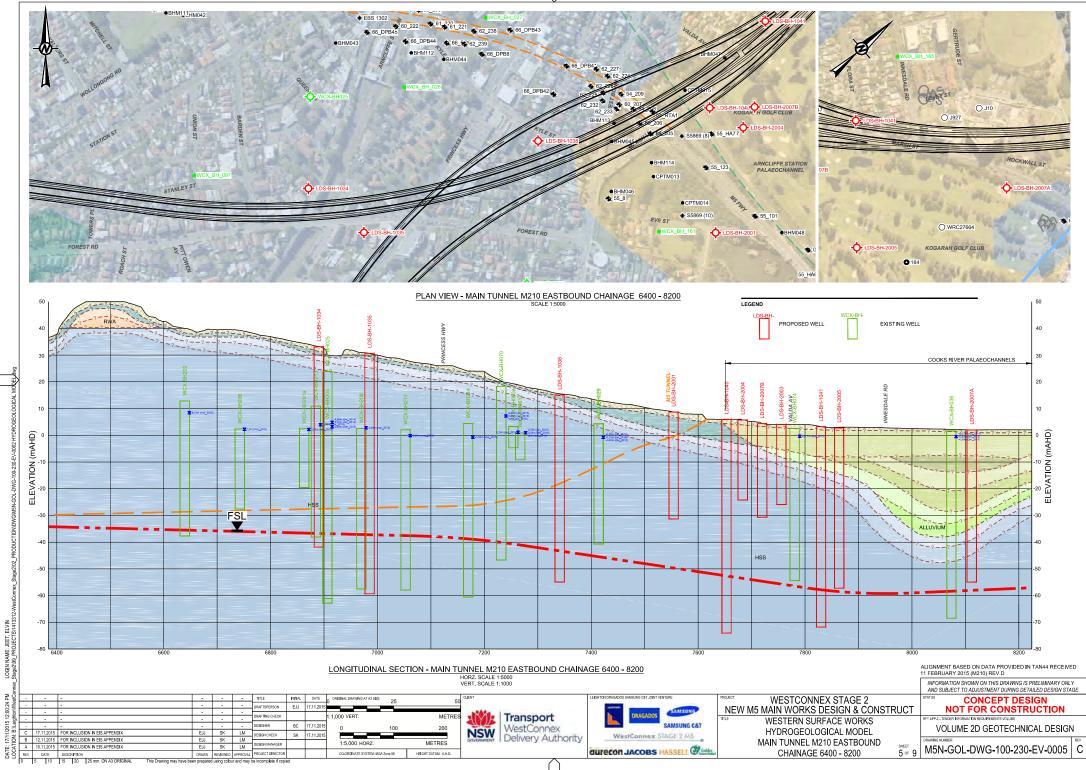
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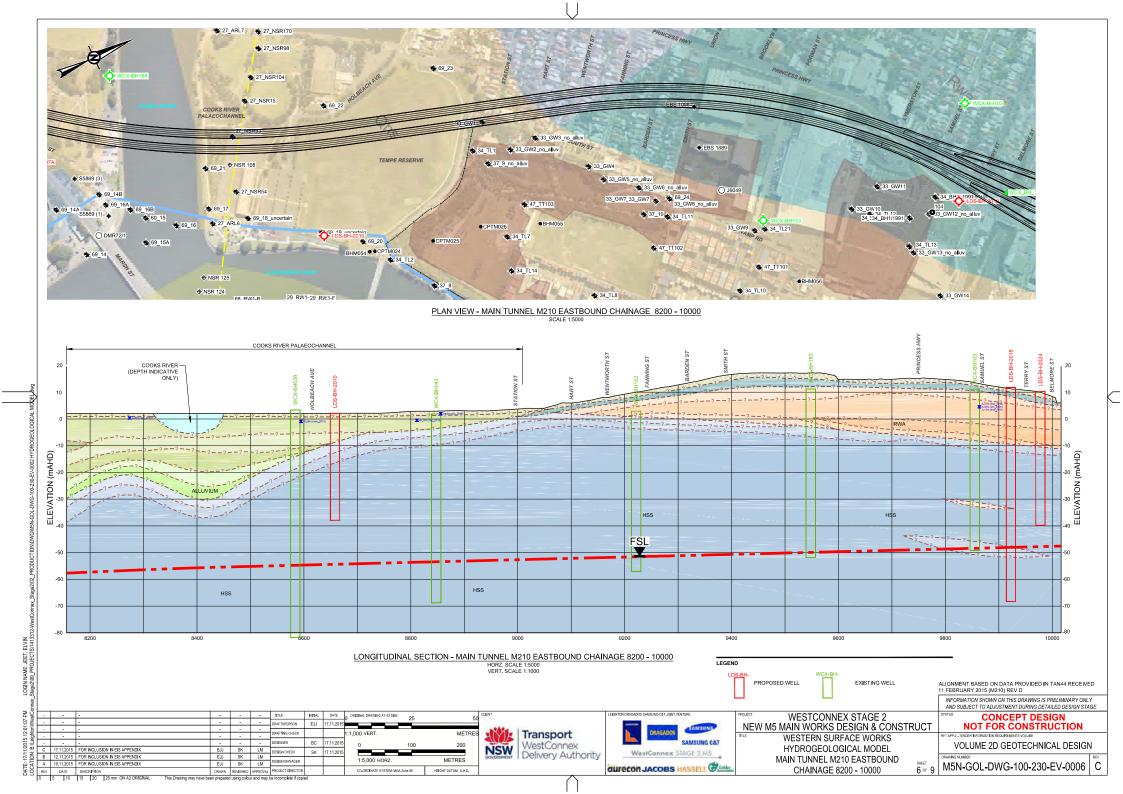


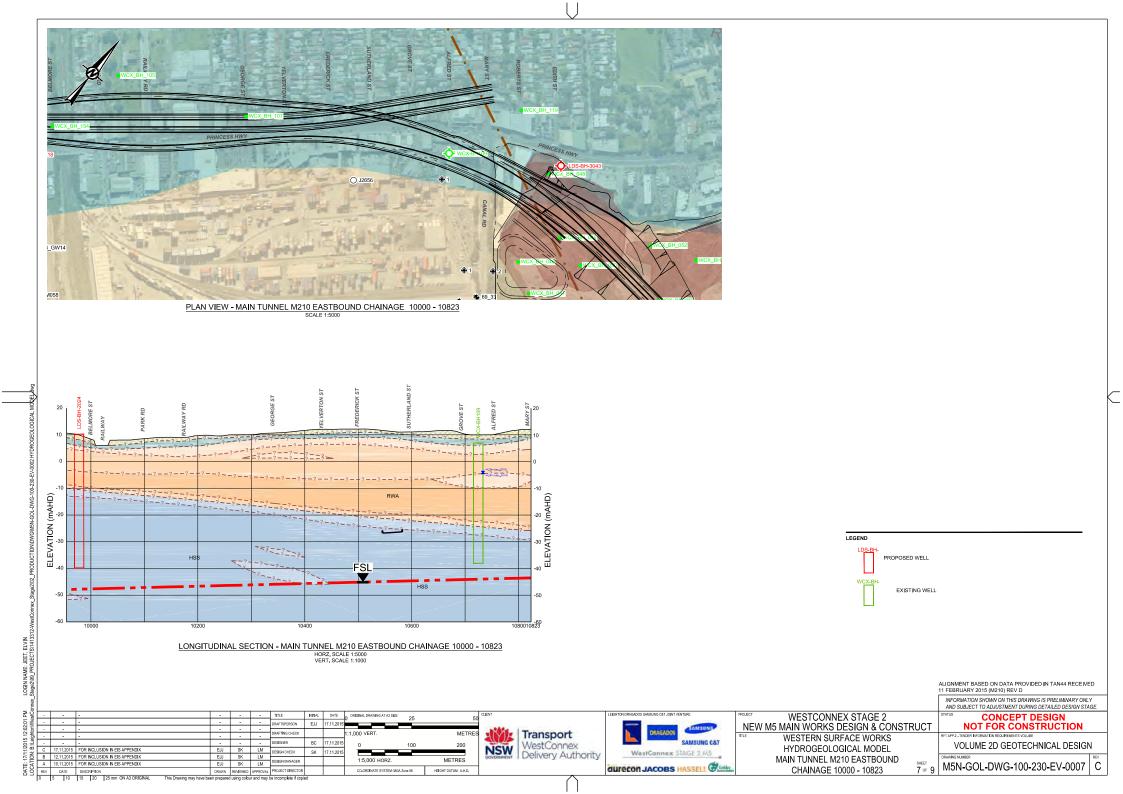


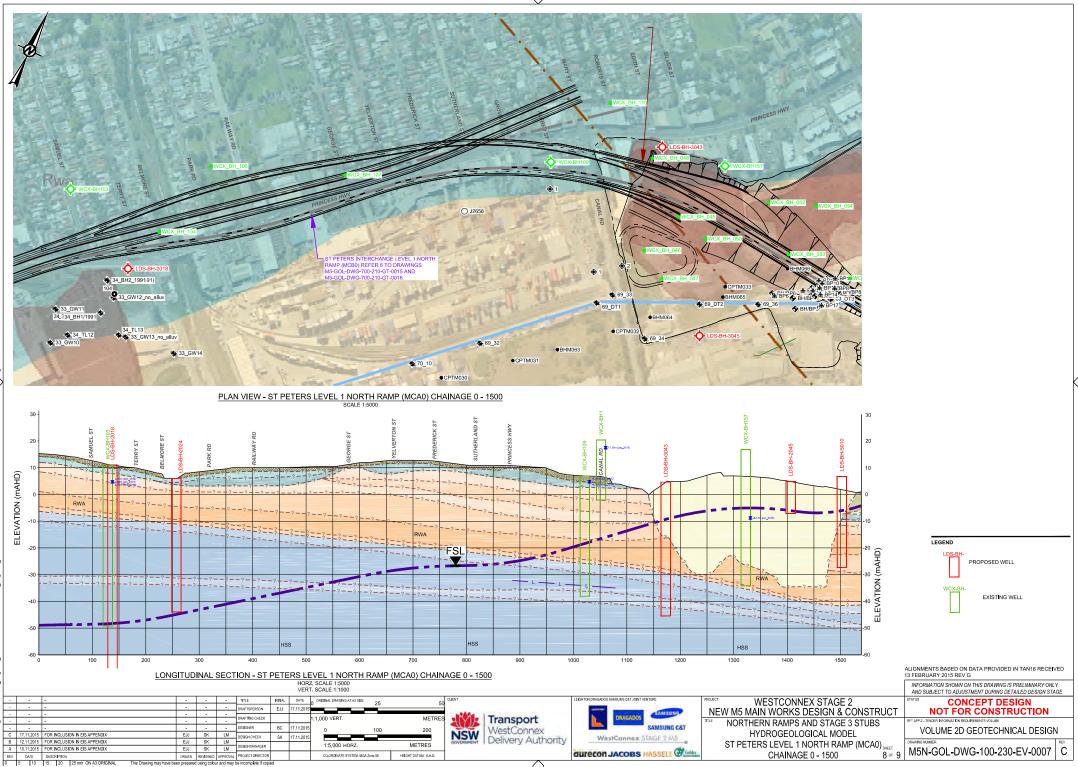


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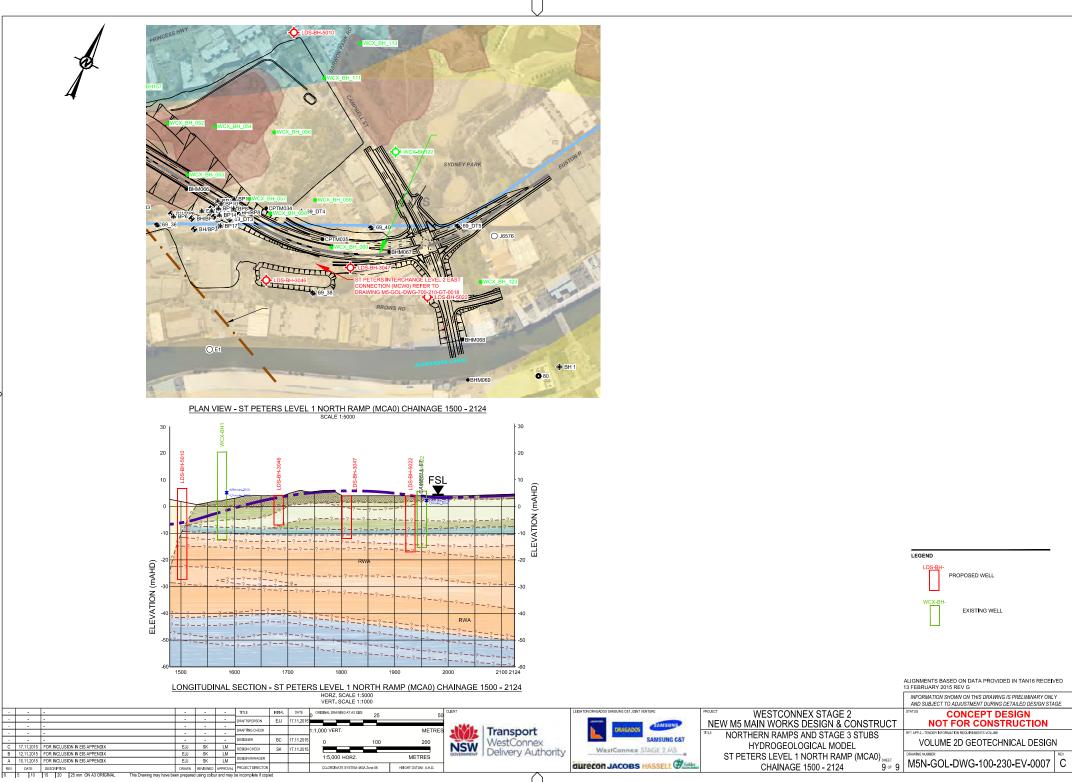




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