

3. Site inspection

A site inspection was conducted on 19 November 2015 by a Jacobs environmental scientist. The site inspection focussed on the project area, as well as adjacent land uses and potential AEIs. The site inspection was only undertaken from areas which were accessible to the public.

At the time of the site inspection the project area consisted mostly of agricultural and rural residential land use, with low density residential land use in the suburbs of Glenmore Park and Mulgoa. The remaining areas generally comprised rural residential land use with more intensive agricultural land use within the southern portion of the project area (Greendale) and the Defence Establishment Orchard Hills. Roads were generally sealed.

Another site inspection was conducted on 20 September 2016 by Jacobs personnel of the proposed construction footprint within the Warragamba Pipelines corridor.

A number of AEI were identified during the site inspection as detailed in **Table 3-1** and presented as **Figure 2**.

Table 3-1: Site Inspection AEI

| No. | AEI | Location | Description |
|-----|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Stockpiles | <ul style="list-style-type: none"> Private Property, western side of The Northern Road between Glenmore Parkway and Bradley Street, Glenmore Park 100m north of project area | Fill of unknown quality within close proximity to The Northern Road |
| 2 | Defence Establishment Orchard Hills | <ul style="list-style-type: none"> Eastern side of The Northern Road, Orchard Hills Within project area | General military use, possible UXO. |
| 3 | Stockpiles | <ul style="list-style-type: none"> Eastern side of The Northern Road between Kingshill and Longview Roads, Orchard Hills Within project area | Fill of unknown quality. Close proximity to The Northern Road |
| 4 | Sub-station | <ul style="list-style-type: none"> Western side of The Northern Road, Orchard Hills Within project area | Transformers, possible storage of transformer oils and degradation of building materials |
| 5 | Warragamba Pipelines | <ul style="list-style-type: none"> Eastern and western sides of The Northern Road, Orchard Hills Within project area | <p>Possible degradation of painted surface and jointing materials on pipeline.</p> <p>Fill containing metal and pipe observed to south of the construction footprint</p> |
| 6 | Filling | <ul style="list-style-type: none"> Private property, eastern side of Galaxy Road, Luddenham Outside of project area (> 500m) | Fill of unknown quality |
| 7 | Stockpiles | <ul style="list-style-type: none"> Private property, eastern side of Galaxy Road, Luddenham Outside project area (> 500m) | Fill of unknown quality |
| 8 | Market Gardens | <ul style="list-style-type: none"> Private property, north and north east of the intersection of The Northern Road and Elizabeth Drive. Within project area. | General agricultural activities, possible chemical storage and pesticide use |
| 9 | Stockpiles | <ul style="list-style-type: none"> Western side of The Northern Road, north of Park Road, Luddenham Within project area | Fill of unknown quality within close proximity to The Northern Road |
| 10 | Roads and Maritime Stockpile | <ul style="list-style-type: none"> North of the intersection of The Northern Road and Park Road, Luddenham. Outside project area (> 250m) | Fill of unknown quality within close proximity to The Northern Road |
| 11 | Service Station | <ul style="list-style-type: none"> South of the intersection of The Northern Road and Park Road, Luddenham. Outside project area (> 250m) | Operational service station site, storage of dangerous goods (petroleum) in underground systems |
| 12 | Cemetery | <ul style="list-style-type: none"> South of the intersection of The Northern Road and Roots Avenue, Luddenham. Outside of project area (> 250m) | Degradation and breakdown of organic carbon |
| 13 | Non-operational service station | <ul style="list-style-type: none"> Shops – The Northern Road, Luddenham. Adjacent to project area | Indications of former service station site (fill points, bowser islands, vent pipes) within carpark of shopping centre. |
| 14 | Service Station | <ul style="list-style-type: none"> Shops – The Northern Road, Luddenham. Adjacent to project area | Operational service station site, storage of dangerous goods (petroleum) in |

| No. | AEI | Location | Description |
|-----|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | | underground systems |
| 15 | Dumped tyres | <ul style="list-style-type: none"> Southern side of Adams Road, Luddenham Within project area | Possible fire hazard |
| 16 | Filling | <ul style="list-style-type: none"> Private property, western side of Willowdene Road, Luddenham Outside of project area (250m) | Fill of unknown quality around drainage line |
| 17 | Stockpile | <ul style="list-style-type: none"> Western side of Willowdene Road, Luddenham Outside of project area (250m) | General waste materials |
| 18 | Septic Systems | <ul style="list-style-type: none"> Numerous tanks and pump out points observed within the project area | Human wastes |
| 19 | Agricultural land use (incl. Luddenham Pastoral Company) | <ul style="list-style-type: none"> Numerous locations Within and adjacent to the project area | <p>Potential point and diffuse contamination sources associated with agricultural activities (where undertaken) including:</p> <ul style="list-style-type: none"> Pesticide and herbicide use Storage and use of chemicals (including fuels and oils) Livestock dips General waste disposal Degradation of building materials Fertiliser use. |



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- The Northern Road upgrade - Mersey Road to Glenmore Parkway
- The Northern Road (Existing)
- Operational footprint

- Compound sites
- AEI contamination sites
- Western Sydney Airport site (Commonwealth Land)
- Defence Establishment Orchard Hills (Commonwealth Land)
- Commonwealth Lands

0 0.5 1 km

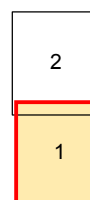


Figure 2 | AEI contamination sites