



**CALTEX**

Caltex Australia Petroleum Pty Ltd ACN 000 032 128

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**To: Planning & Environment**

**Att: Sarah Waterworth**

cc: John Frankland

Dear Sarah,

**Re: West Schofields Precinct Plan**

**IMPORTANT NOTE – This document sets out the minimum requirements related to protecting the pipeline from physical damage only. Any and all other requirements, including but not limited to local community and development standards and safety requirements in or around the pipeline, will require the developer to undertake its own enquiries and risk assessment(s).**

Thank you for your enquiry about the Newcastle Pipeline easement at West Schofields

The material set out below provides you with some information on our pipeline and lists our standard requirements for any development in the vicinity of the pipeline easement.

#### **A. Background**

Caltex Australia Petroleum Pty Ltd ('Caltex') is the owner and operator of the Newcastle Pipeline Company's (NPC) high pressure liquid petroleum products pipeline which carries refined petroleum products from the Caltex Refinery at Kurnell (Sydney) to Silverwater Terminal, and on to various terminals in Newcastle. This pipeline transfers approximately 4,000,000,000 litres of fuel each year, negating the need for about 45,000 road tankers per year between Sydney and Newcastle. The pipeline is a 300mm nominal diameter buried high tensile steel line that is fully wrapped in polyethylene coating, and protected from corrosion by a cathodic protection system. Gasoline and Diesel products that are transported by the pipeline are also dosed with a corrosion inhibitor for further protection. The maximum allowable operating pressure (MAOP) of the pipeline is 10,000 kPa. The pipeline is licensed under the Pipeline Act 1967; the Pipelines Regulation 2005 by NSW Resources and Energy and complies with the Gas & Liquid Petroleum Pipelines Code, AS 2885 - 2012.

Being underground, the pipeline is not apparent from the surface, except for the necessary warning signs that are placed at intervals along the route to inform any other parties (such as persons excavating in the vicinity) of its presence. As part of the licence requirements, a weekly ground patrol is conducted to ensure that no activities (e.g. excavation, building, etc.) are being carried out over the pipeline that may hinder its operation or maintenance.

## B. Minimum Civil Works Requirements

Please note the following standard requirements of the Newcastle Pipeline Company when carrying out any civil work in the vicinity of the Newcastle Pipeline "Licensed Easement". Whilst these requirements are extensive, you may be required to comply with other specific requirements of the Newcastle Pipeline Company as work progresses.

1. Final design of all activities must be approved by Caltex prior to any work over the pipeline easement commencing.
2. Detailed drawings of project design and its exact location to be supplied to Caltex.
3. Minimum finished depth of cover to the pipeline to be not less than 1000mm
4. The developer may be required to fully expose the pipeline for Caltex to inspect its coating and carry out any repairs to same in the area of the project. A clearance of approximately 500mm is required around the pipeline to enable inspection and any repairs.
5. The pipeline must be accurately located using a water or air lance (pot holing) to ensure all proposed activity, crossings and structures remain clear as per noted elsewhere in this document. Dry Vacuum machine are NOT to be used.
6. The developer is to reconsolidate the ground after excavation; using fresh Sydney Washed River Sand to a minimum cover of 300mm around the pipeline prior to backfilling.
7. Excavations within 1.0 meter of the pipeline are to be carried out by hand (shovel), not by machine. No excavator larger than 20t to be used within 5 metres of the pipeline easement. Only gummy buckets are allowed within 5 metres of the pipeline easement. NO tiger teeth.

**Note:** Civil works required under paragraphs 4, 5 & 6 above to be at the full cost of the Third Party Contractor.

8. Vehicle Access 5 Metres wide must be provided from a public road along the full length of the easement in each development.
9. The easement area is not to be used for any type of storage, but may be used for vehicle parking with appropriate approved surface material.
10. Vehicle movements over the easement are limited to an axle loading of 8 Tonnes on formed roads, grass verge or unsealed areas are subject to risk assessment.
11. No trees may be planted on the easement. Specifically, the following tree species **are not** to be planted on or within **2 metres** of the pipeline easement:

Populus Species	-	Poplar Tree
Cinnamomum	-	Camphor Laurel
Schinus Molle	-	Pepper Trees
Salix Species	-	Willow Trees
Erythrina Species	-	Coral Trees
Jacaranda Mimosifolia	-	Jacaranda Tree
Plantinus Species	-	Plane Trees
Eucalyptus Species	-	Gums, Stringy Barks, etc.
Grevillea Robusta	-	Silky Oak
Ficus Species	-	Fig Trees

12. No Structures may be constructed on the easement.
13. Stormwater run off must not be discharged onto the easement.

14. Any drainage or excavation in the easement must be approved by Caltex prior to commencement.
15. Any buried service crossing the pipeline must cross perpendicular to the pipeline and maintain a minimum of 500mm clearance from the pipeline. Parallel services are subject to risk assessment.
16. Any construction, included buried services, within 5 Metres of the easement, and in the easement, must be supervised by a pipeline surveillance contractor from our Line Patrol Contractors unless varied through a work permit issued by the pipeline surveillance contractor. Please provide 3 working days' notice of the need for a surveillance contractor's attendance. Site visit and pipeline locating by electronic pipe locator shall be carried out at no cost. Our line patrol contractor Ph: 02 9695 3619 can provide a schedule of rates on application.
17. No compaction by roller is permitted above the pipeline unless there is a minimum of 900mm cover from the level to be compacted to the top of the pipe. Details of all compaction above the pipeline must be submitted to the undersigned for approval irrespective of the depth of cover. Vibrating Rollers are **not** to be used over the pipeline easement, and the maximum static roller weight (with approval) is 8 tonnes.
18. Any structure close to the easement must be fully supported off the easement to enable an excavation generally 2 Metres deep (to the bottom of our pipeline) along the adjacent edge of the easement to be dug without affecting the structures integrity. We request that detailed structural drawings be forwarded to us for review.
19. NDD Potholing must be undertaken to validate the location of buried pipelines by physically exposing them. The SMP pipeline must be validated and proven before commencing excavation works. Potholing must conform to AS5488 – 2013 Quality accuracy levels for location accuracy. Hydro vacuum excavation is used for non-destructive digging (pot holing) however caution should be exercised as it can damage the pipeline coating. All pot holing may only be carried out under supervision from a Caltex pipeline patrol person or their nominated agent. Maximum allowable pressure is 2,000kPa from the lance and the vacuum must be kept at least 100mm away from the pipeline coating.
20. Where HDD or bore is planned to pass under, over or near the SMP pipeline, the location of the pipeline must be proven initially by NDD and subsequently by excavation. The excavation is to be extended to a distance of 1 meter from the pipeline on the side from which the bore will approach. The position and direction of the bore head is to be checked when it reaches the excavation to ensure the required minimum clearance of 500mm between the bore and the pipeline will be maintained. In addition, progressive measurement checks of the length of the bore on the approach towards the pipeline must be made to ensure that the bore head has not missed the bore proving excavation and travelled off alignment either horizontally and/or vertically. The final pull back (annulus) diameter of the bore with reaming tools shall be assessed to ensure a minimum clearance of 500mm from the pipeline is maintained.

21. If any damage is done to the pipeline as a result of your works in the pipeline easement, you must:
- (a) immediately notify the attending patrolman or, if no patrolman is present, immediately phone 1800 043 122;
  - (b) immediately take measures to minimise the extent of the damage to the pipeline and the amount of petroleum products lost from the pipeline;
  - (c) advise Caltex, via the undersigned, of the existence and extent of the damage to the pipeline within 30 minutes and comply with any directions given by Caltex;
  - (d) as soon as possible and at Caltex's option, either:
    - (i) repair the pipeline at your cost so as to return it to the condition it was in prior to the damage; or
    - (ii) pay to Caltex or NPC all costs incurred by Caltex or NPC in carrying out the necessary repairs to the pipeline to return it to the condition it was in prior to the damage occurring; and
  - (e) undertake all necessary work to remediate any environment that becomes contaminated as a result of spillage from the pipeline.
22. In undertaking your works, you agree to indemnify Caltex and NPC against other costs, expenses and/or losses sustained by Caltex and/or NPC as a consequence of any direct or indirect action(s) caused by you (including any of your employees, contractors, subcontractor and/or any other third party representative) that results in any loss or damage to the pipeline, or an individual, including but not limited to any cost associated with product spilled from the pipeline and costs incurred by Caltex and/or NPC associated with any investigation or prosecution by any regulatory body.

### **C. Other Requirements**

The pipeline is licensed by NSW Trade and Investment. The Department will provide necessary support to ensure that the safety of the pipeline is not compromised. One of the licence conditions of the pipeline is that 24 Hour access is available in the event of an emergency (e.g. pipe rupture). Another condition is that the pipeline easement is to be patrolled at least once per week, and at least once per month by walking from end to end.

In the situation where Caltex gives permission for a third party to install a fence/gate across the pipeline easement, the approval would be given on the condition that an approved Caltex security lock be installed in series with the property owner's/tenant's lock on an agreed security chain, so that we have continued 24-Hour access to the easement at all times.

It is your responsibility to ensure that you (including your employees, subcontractors, and/or other representatives) at all times understand and undertake your works in a safe and secure manner, and in accordance with all relevant laws. If at any time you (or any of your employees, subcontractors, or other representatives) are unsure of your obligations and/or requirements (safety or otherwise) you should seek professional assistance prior to commencing and/or continuing any civil and/or construction works in or around the pipeline.

Yours sincerely,

Caltex Australia Petroleum Pty Ltd  
for Newcastle Pipeline Pty Ltd



**Rob Moore**  
Pipelines Coordinator

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