

Pipeline Handbook



An ExxonMobil Brand

How to contact Esso



You can obtain information in any of the following ways:

"Dial before you Dig" Phone: **1100**

Esso's Free Call Numbers:
1800 653 438 or **1800 633 971**

Alternatively you may call Esso's
pipeline inspectors direct:

0428 513 236

or

0428 514 264

Our Pipeline Inspectors are based at the Longford
processing plants and are on call 24 hours a day to assist
with your pipeline inquiries.



To the Landowner or Occupier

Dear Landowner/Occupier,

This Pipeline Handbook has been prepared to help you understand the operation of the Esso/BHP Billiton pipelines that carry crude oil, gas and liquid products from Bass Strait to our customers and the important role that you play in making the operation of these pipelines as safe as possible.

Esso greatly appreciates your co-operation in regards to the pipeline easement through your property. Safety is Esso's priority and we want to ensure that you have all the information you need before you carry out any work near the pipelines. The major points you need to know are summarised in this Handbook.

Our pipeline inspectors are always available to assist you. Their services are provided free of charge and you are encouraged to contact them if you are planning any work near the pipelines or if you have any queries concerning the pipelines or the pipeline easements on your property.

Please take the time to read this Handbook. I encourage you to keep it handy for future reference.

Longford Management
and Pipeline Teams

Esso Operated Pipelines

The co-operation of landowners is vital to ensure the continued safe and reliable operation of our pipelines.

Experience has shown that excavations or earth moving activities carried out without the knowledge of the pipeline owner are the biggest cause of damage to underground pipelines. Esso will, at no cost, work with landowners to guard against such damage.

It is particularly important to observe the obligations associated with having a pipeline easement cross your land.

A pipeline easement is typically the strip of land that extends either side of the pipeline and secures rights of entry and access for repairing, maintaining or replacing the pipeline as necessary. The location of an easement is referenced in the land title.

What to Do...

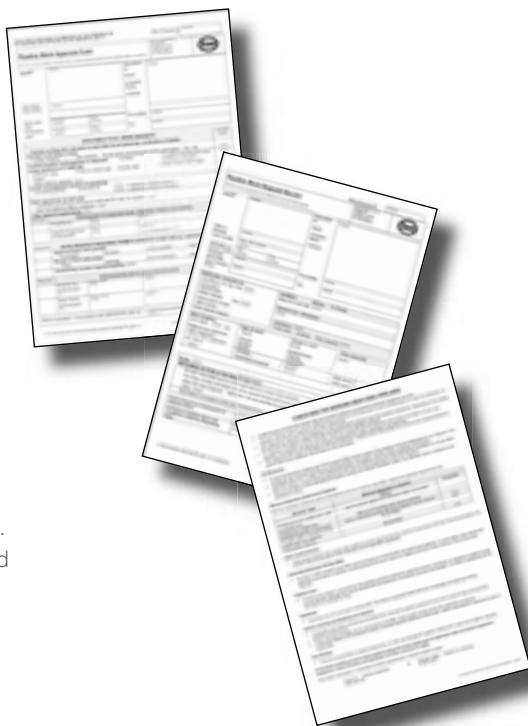
Conditions for Working near Pipelines

- Esso must be notified at least seventy two (72) hours prior to work commencing on or near the pipeline easement. An Esso Inspector must also be on site prior to the work commencing.
- Esso approval is required for all underground or soil moving works planned near Esso pipeline easements. Depending on the activity the proposed work may also require a written work plan and referral to the regulatory authority.

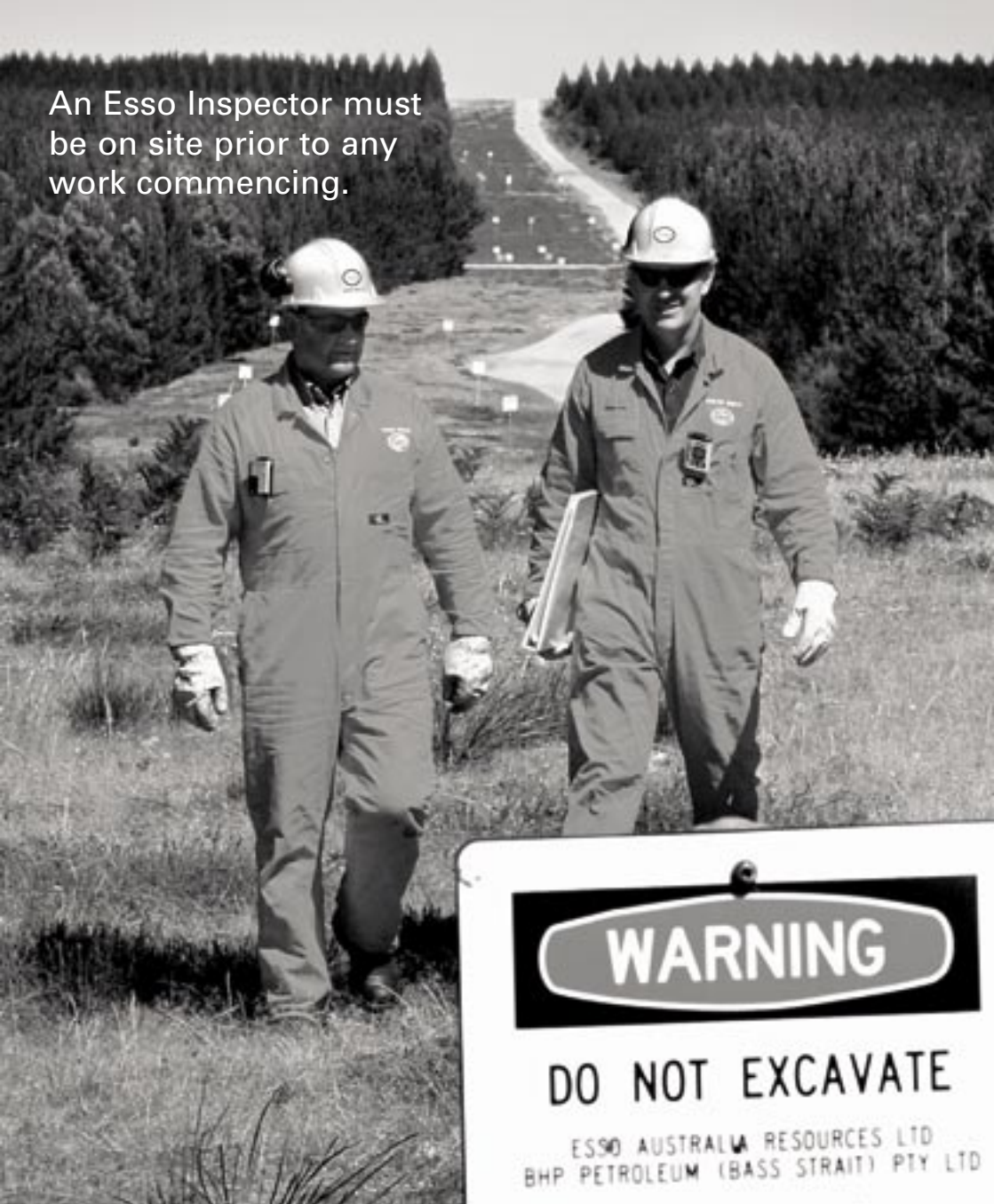
- An Esso Inspector is available to visit the work site, review your proposed work and determine the location and depth of cover over pipelines. The Inspector will advise you of Esso's requirements for written submissions and approvals.

Request for Work

- Esso Inspectors will assist you to fill in a Request for Work form. When approval has been given you will need to sign an Approval for Work form and agree to follow the specified instructions.
- In some minor cases, the Request for Work form can go in from your phone call and the Approval for Work form will go on file with a verbal agreement to follow the instructions made by phone.



An Esso Inspector must be on site prior to any work commencing.



Unplanned or unsupervised activity near high pressure pipelines is extremely dangerous. Esso Inspectors are provided free of charge.

Soil Movement

When ground disturbance is deeper than three hundred (300) mm the location of the pipeline must be established by an Esso Inspector. This includes all soil movement activities (e.g. farming activities, fence posts, trenches, drains, crossings, plowing etc).

Excavation within one (1) metre of the determined position of a pipeline must be by hand. Mechanical excavation is not permitted within this distance, except if following assessment and under the strict supervision of an Esso Inspector.

You may be liable for any damage to Esso pipelines and cables.

Tree Planting

Trees are not permitted on pipeline easements as roots may damage the pipeline coating and a clear line of sight is required.

Cable Laying

Cable laying activities must comply with conditions of work approved by Esso and be in accordance with the Telecommunications Act and the Telecommunications Code of Practice and applicable regulations.

Horizontal Directional Drilling

Any pipe or cable installed using horizontal directional drilling must be at least six hundred (600) mm below Esso pipelines. In most cases, an Esso review and approval of work plans is required, including exposing the top of pipes and digging trenches to allow viewing of the boring head approach.

Pipeline Cover

Fill shall not be added or removed from the pipeline easement without the approval of Esso. Generally, no reduction in depth of cover can be tolerated, although this may be allowed with the placement of protective concrete and signage. The effect of additional landfill needs to be analysed by Esso.

Explosives

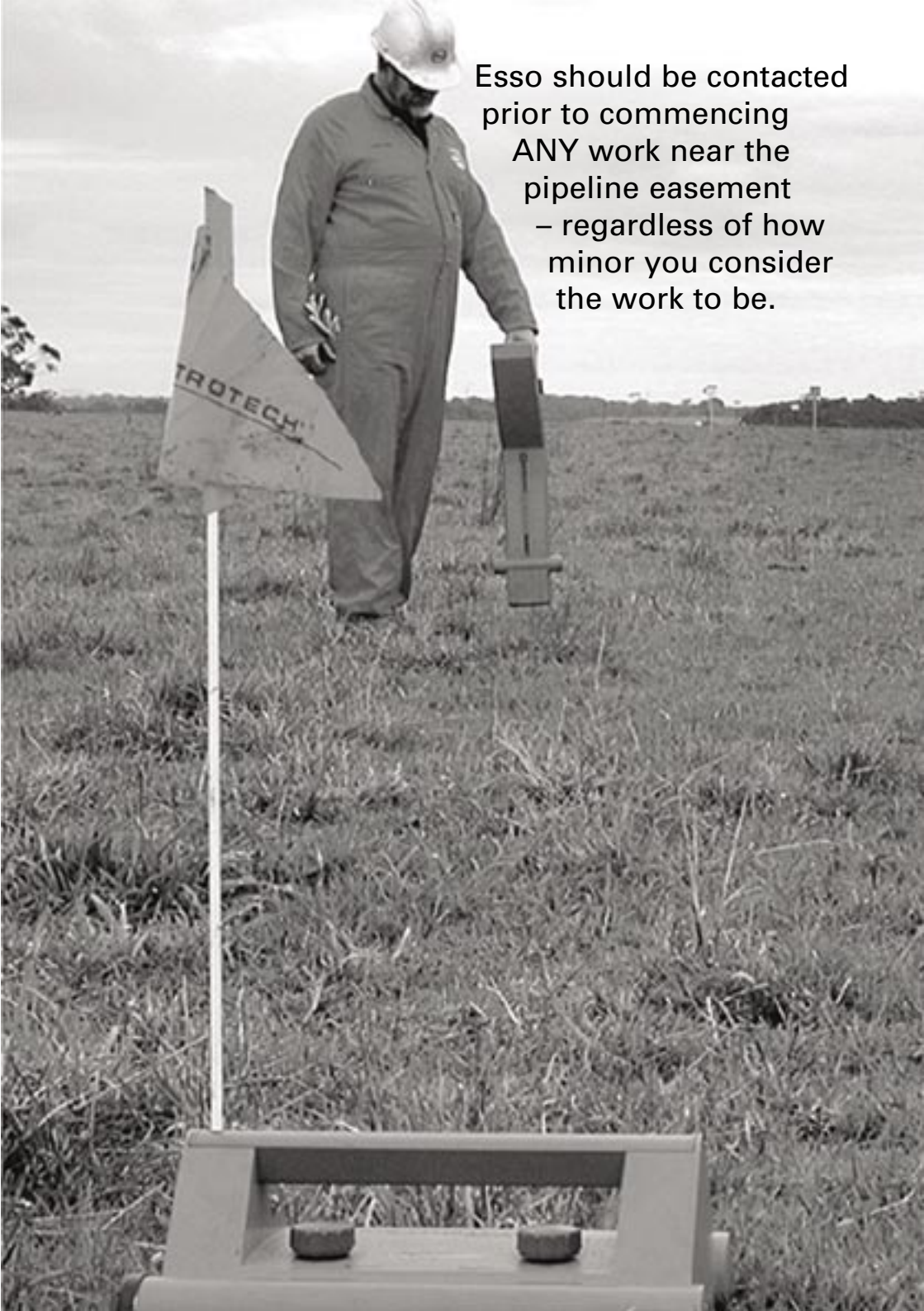
Explosives are not to be used or stored within 100 metres of pipelines without the prior knowledge and approval of Esso.

Vehicle Crossing and Stopping Over Pipelines

Construction and heavy vehicles are prohibited from crossing the pipeline easement at any time except at approved specially prepared crossing points.

Proper vehicular crossings can be constructed to AS 2885, where regular access across the easement is required.

Construction details of the proposed crossing, including expected maximum wheel loads, shall be submitted for assessment prior to construction.



Esso should be contacted prior to commencing ANY work near the pipeline easement – regardless of how minor you consider the work to be.

Pipeline Safety Information

Minimum Separation Distances

Minimum separation distances will be evaluated by Esso on a case by case basis, however the general requirements are:

Structure Type	Minimum Separation to Pipeline	
	Vertical	Horizontal
Crossing by a non-metallic pipe cable or concrete drain	300mm (power cables to be encased in 300mm of concrete)	-
Crossing by a metallic pipe	600mm (CP bonding strap may be required)	-
Buildings (temporary or permanent)	Not Permitted	10m
Any pipe, cable or structure running parallel with pipelines	Not Permitted	10m
Fence posts, poles etc.	Not Permitted	2m

Safety

If you observe unusual indications or activities on or near the pipeline easement we would like you to report them to Esso immediately. They may include:

- **Discolouration of vegetation**

This may be an indication of a minor leak.

- **Appearance and odour of hydrocarbons**

Any appearance of a light brown to black liquid on or near the pipeline easement with a characteristic petroleum odour might indicate a crude oil leak. Other products such as liquefied petroleum gas (LPG) will vapourise on contact with the atmosphere and will tend to freeze the ground.

Any area where a leak is suspected should be approached with caution. The use of motor vehicles, mobile phones, cameras, matches, cigarettes or any other source of ignition on or near the site should not be used until the site has been inspected by an Esso inspector.

Potential sources of damage may come from workers using heavy equipment, such as a bulldozer or road grader on or near the easement. The workers involved should be made familiar with the route and location of the pipelines to prevent a serious incident from occurring.

Safety is Esso's priority and we participate in emergency response exercises with local authorities and have detailed emergency response plans for use in the unlikely event that a pipeline is damaged.



If you observe unusual indications or activities on or near the pipeline easement we would like you to report them to Esso.

Esso Australia Pty Ltd

Esso Australia has produced a significant proportion of the nation's crude oil requirements for over 35 years. The company is also a major gas producer supplying natural gas to Victoria, Tasmania, New South Wales, South Australia and the Australian Capital Territory.

Esso began exploring for oil and gas in Australia in the mid-1930s. However, it was not until 1965, when in joint venture with BHP, that the first major Gippsland Basin oil and gas discovery was made at the Barracouta field. As operator for the joint venture Esso commenced Bass Strait production in 1969.

Esso/BHP Billiton continues to expand the Bass Strait oil and gas production system, with processing facilities at Longford, near Sale and Long Island Point, near Hastings on the Mornington Peninsula. Pipelines are used to transport oil and gas between these facilities. Esso operates approximately 750 kilometres of onshore pipelines with a further 600 kilometres offshore.

Esso operates approximately 750 kilometres of onshore pipelines.



Pipeline Details

Burial depth:

0.75 metres (2' 6")

Size of pipelines:

150 - 1070mm (6 - 42 inches)

Operating pressure:

Up to 20,000kPa

Products transported:

Unrefined crude oil

Liquefied petroleum gas (LPG)

Natural gas

Ethane gas

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Esso Australia Pty Ltd is a subsidiary of the largest petroleum and petrochemical company in the world, the Exxon Mobil Corporation. ExxonMobil conducts business in more than 200 countries around the world - in the exploration and production of oil and gas; manufacturing and marketing of fuels, lubes and chemicals; and electric power generation.



BHP Billiton Petroleum Pty Ltd is a subsidiary of BHP Billiton, one of the world's largest diversified natural resources groups. BHP Billiton has operations in the major resources provinces of Africa, Australia and Latin America, and provides a range of products (including aluminium, base metals, carbon and stainless steel-making raw materials, diamonds, energy coal, petroleum and various steel products) to customers in the markets of North America, Europe and Asia.