

TO THE RESIDENT

Dear resident

Re: Beverley environmental assessment report findings

The Environment Protection Authority (EPA) has been assessing groundwater and soil vapour in Beverley for historically used chemicals including trichloroethene (TCE), since 2015.

Further to our recent correspondence, the EPA has today received the *Beverley Stage 3B Validation (Site Specific) Assessment Works* report, from environmental consultant Golder Associates. These works focussed on the area close to Pope Street, and have been specifically undertaken to determine if there is a risk to human health from vapour intrusion into residential homes.

Of the approximately 181 residences assessed, the EPA offered 48 residents the opportunity for site specific testing, based on the predicted indoor air levels of TCE vapour intrusion. 20 property owners accepted the EPA offer, and site specific works including a combination of crawl space, sub-slab and indoor air testing were undertaken. The results for these properties are:

TCE indoor air response range	Number of properties	Summary
No action	2	Concentrations less than detection limits, considered safe from TCE vapour intrusion.
Validation	5	Concentrations between detection limits and 2 micrograms of TCE per cubic metre ($\mu\text{g}/\text{m}^3$), considered safe from TCE vapour intrusion.
Investigation	8	Concentrations between 2 and 20 $\mu\text{g}/\text{m}^3$: <ul style="list-style-type: none"> 4 properties with <i>conservative predictions</i> based on computer modelling, whose owners have now accepted the EPA offer of indoor air sampling. 4 properties with confirmed levels will be retested and have been advised to ensure they are adequately ventilated in the meantime.
Intervention	5	Concentrations between 20 and 200 $\mu\text{g}/\text{m}^3$: <ul style="list-style-type: none"> 3 properties with <i>conservative predictions</i> based on computer modelling, whose owners have now accepted the EPA offer of indoor air sampling. 2 properties with <i>confirmed levels</i> in the 'intervention' response range will be part of a pilot mitigation trial, which will involve the installation of a ventilation system to reduce the vapour intrusion into their homes. These works are anticipated to commence in August 2016.

A map and indoor air level response range is attached to this letter for your information. The EPA has contacted all property owners whose properties were tested personally, to discuss their results and proposed follow up actions.

The predicted TCE concentrations for the remaining 161 properties in the assessment area include:

TCE indoor air response range	Number of properties	Summary
No action	19	Concentrations less than detection limits, considered safe from TCE vapour intrusion.
Validation	111	Concentrations between detection limits and 2 micrograms of TCE per cubic metre ($\mu\text{g}/\text{m}^3$), considered safe from TCE vapour intrusion.
Investigation	28	Concentrations between 2 and 20 $\mu\text{g}/\text{m}^3$, <i>conservative predictions</i> based on computer modelling, whose owners will be reoffered testing on their properties.
Intervention	3	Concentrations between 20 and 200 $\mu\text{g}/\text{m}^3$, <i>conservative predictions</i> based on computer modelling, whose owners will be reoffered testing on their properties.

The report also identifies the potential for a contamination source to exist in the vicinity of Pope Street. The EPA is investigating this further and is also continuing work to determine the necessary size of a future groundwater prohibition area, which will put a formal restriction on the extraction of groundwater in this area via a bore.

The Golder report and appendices will be available on the EPA website www.epa.sa.gov.au.

As per previous advice, please do not use groundwater (bore water) for any purpose. Mains water and water from rainwater tanks are not affected.

If you have any queries or concerns, please do not hesitate to contact us on 1800 729 175 or email EPASiteContam@sa.gov.au.

Yours sincerely



Andrew Pruszinski

MANAGER SITE CONTAMINATION

ENVIRONMENT PROTECTION AUTHORITY

Date: 29 June 2016

Per richiedere una copia di questa lettera in italiano, si prega di telefonare 13 14 50.

Για να ζητήσετε ένα αντίγραφο της παρούσας επιστολής στην ελληνική γλώσσα, παρακαλούμε τηλεφωνήστε στο 13 14 50.

为了要求这封信普通话的副本，请致电13 14 50。

Indoor air level response range (TCE)



No Action

Indoor Air Level:
Nothing detected

Safe



Validation

Indoor Air Level:
Above detection - less than 2 ($\mu\text{g}/\text{m}^3$)

Safe



Investigation

Indoor Air Level:
2 - less than 20 ($\mu\text{g}/\text{m}^3$)

No immediate health concerns
Further assessment may be necessary



Intervention

Indoor Air Level:
20 - less than 200 ($\mu\text{g}/\text{m}^3$)

There may be a health risk
Immediately look at next steps and further assessment








Accelerated Intervention

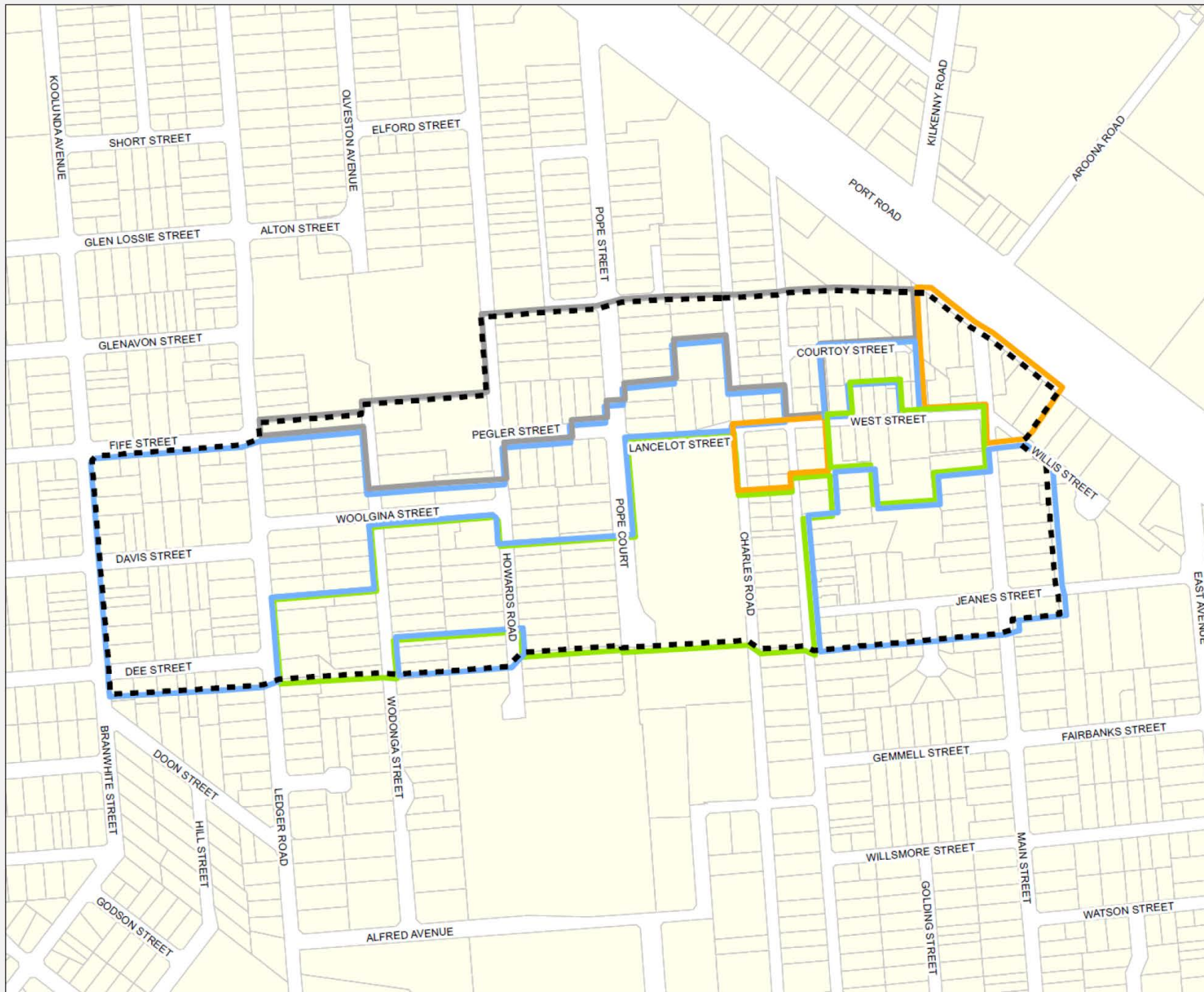
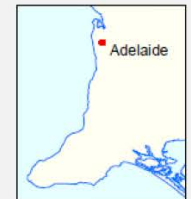
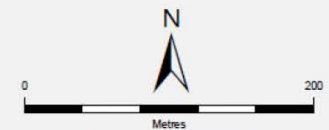
Indoor Air Level:
200 and above ($\mu\text{g}/\text{m}^3$)

There is a health risk
Immediate action (mitigation or possible relocation)

Beverley Assessment Area

Investigation Priority Based on Theoretical Indoor Air TCE Concentrations

-  Below Laboratory Limit of Reporting - No Action
-  Validation (Less than $2\mu\text{g}/\text{m}^3$)
-  Investigation (Less than $20\mu\text{g}/\text{m}^3$)
-  Intervention (Less than $200\mu\text{g}/\text{m}^3$)
-  Assessment Area



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