**South Australia's Environment Protection Authority** 

# South-eastern Edwardstown Community Working Group

Wednesday 16 March 2016

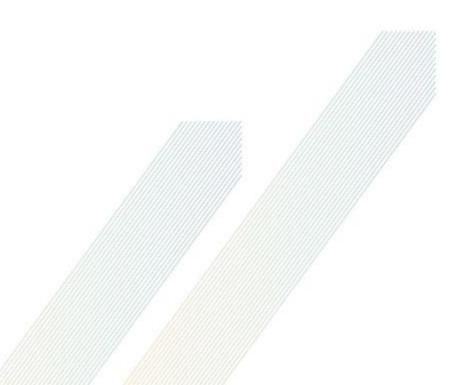




#### Welcome and introductions

**Rachel Hudson** 

• Principal Adviser, Community Engagement





#### Agenda

Welcome and introductions

- 1. Terms of reference
- 2. Review of past meeting notes
- 3. Summary of environmental assessment results
- 4. Edwardstown 'Hills' environmental assessment
  - recent EPA correspondence to residents
  - invitation to Community Information Sessions
- 5. Next meeting: proposed 20 April 2016



#### **Terms of reference**

Confirmation and endorsement

- Purpose of the group
- Membership and privacy
- Meeting specifics
- Conflict resolution
- Communication protocols
- Media protocols
- Meeting notes and documents



## 3. Review of past meeting notes

- We have now sent out detailed responses to the questions raised at the last meeting.
- Do you have any further questions in relation to the answers provided?

## 4. Summary of assessment results



Danielle Torresan - Principal Adviser, Site Contamination

Monday 7 March 2016 – EPA received the 'Stage 2 Environmental Site Assessment Report', prepared by Fyfe Earth Partners

 includes the Vapour Intrusion Risk Assessment prepared by Dr Sim Ooi of Salcor

Friday 11 March 2016 – EPA received the Occupational Hygiene Review, prepared for the two commercial/industrial properties on Erudina and Arabrie Avenue

\*CDs of the Fyfe Report available to take home South Australia's Environment Protection Authority



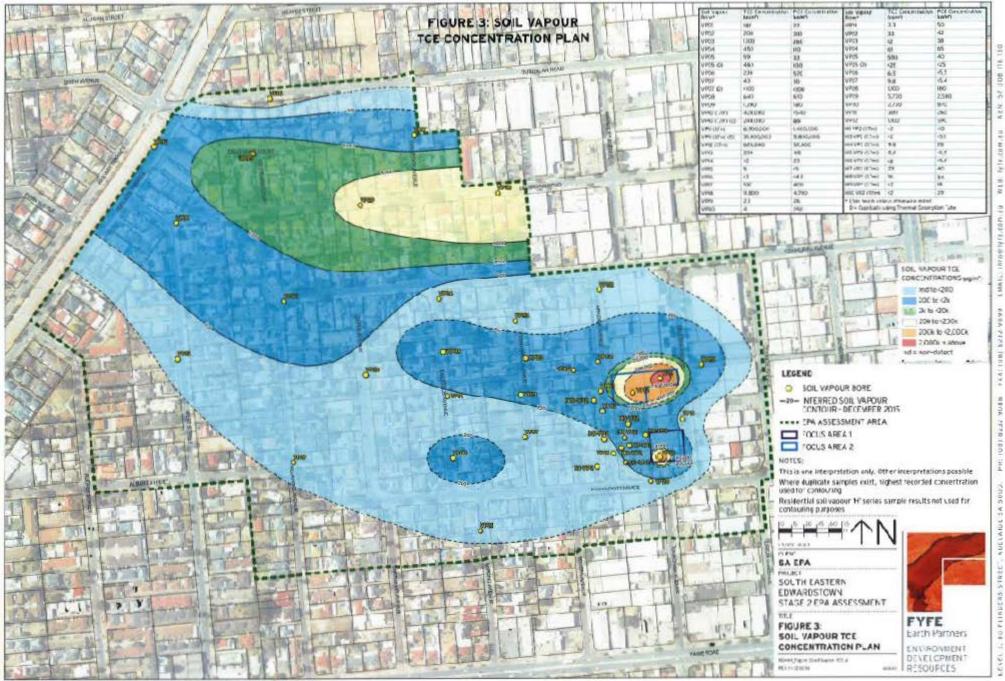
#### Purpose of the assessment work

- The purpose of the environmental assessment program was to understand if vapour intrusion was occurring at properties within the assessment area
- This was completed for both residential and commercial/industrial properties



## Key findings of the Fyfe Report

- The full nature and extent of the soil vapour contamination is not delineated (unknown)
- The soil vapour contamination is likely to be coming from contaminated groundwater
- The soil vapour results have identified another potential source area – located to the north-east of the EPA assessment area – refer to Figure 3



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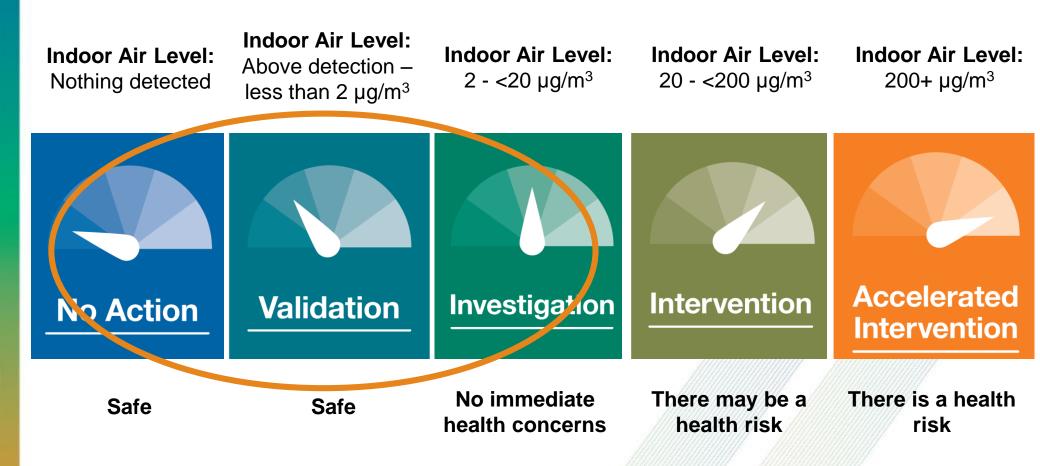
## **Computer modelling**



- Predicted TCE indoor air levels have been calculated using the conservative computer modelling, undertaken by Dr Sim Ooi (specialise vapour intrusion risk assessor)
- The computer model used the vapour data collected from various depths i.e. 1m, 1.5m and 1.7m below ground level
- The computer model also combined a number of other factors including:
  - soil type and moisture,
  - depth to groundwater,
  - building construction type and
  - local geology

#### EPA South Australia

#### TCE indoor air level response range



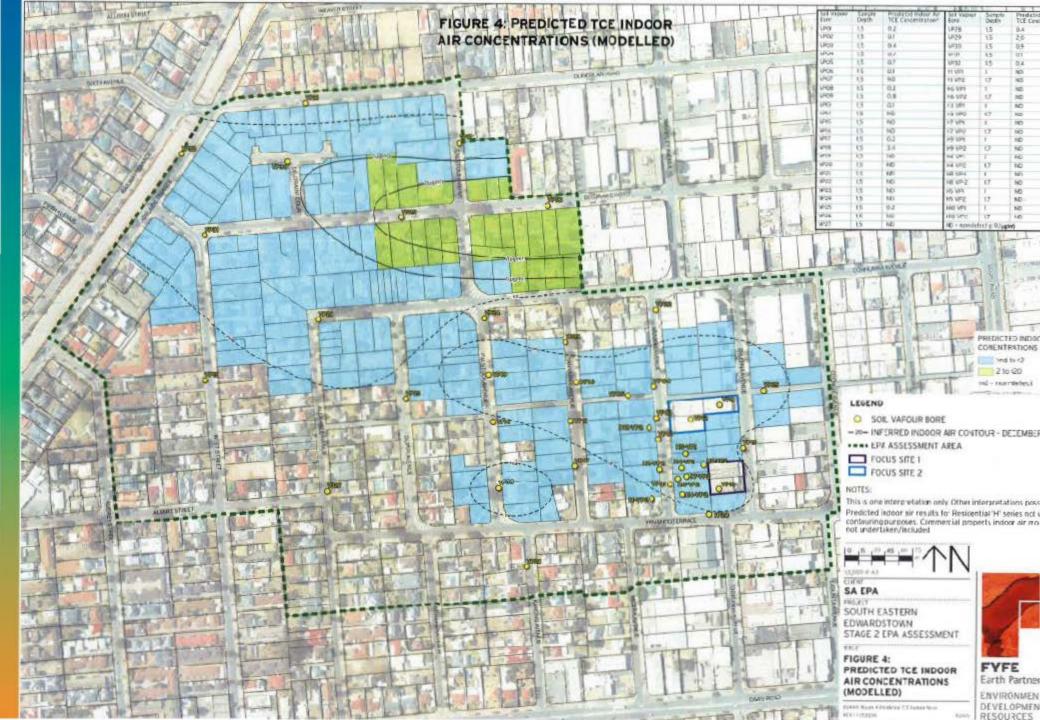


## Predicted TCE indoor air levels

The results of the predicted TCE indoor air levels for the properties within the assessment area include:

- 25 properties fall within the 'Investigation' response range (2 and 20  $\mu g/m^3)$
- 155 properties fall within the 'Validation' response range (less than 2  $\mu g/m^3)$
- 280 properties fall within the 'No Action' response range (nothing detected)

The highest predicted indoor air level was reported as <u>**3.4 µg/m<sup>3</sup>**</u> (micrograms of TCE per cubic metre of indoor air). This falls at the lower end of the 'Investigation' response range.



#### **Advice on results**



- The EPA has provided the results to SA Health for their information and to discuss the timing for further assessment work
- In addition, the EPA will be discussing the results for the two commercial/industrial properties (Erudina and Arabrie Avenues) with SafeWork SA

#### **Next steps**



- Next week, the EPA will commence developing a further stage of the environmental assessment program
- This is likely to include:
  - broadening the assessment area further west over the rail line (Railway Terrace)
  - further soil vapour assessment in the vicinity of properties within the 'Investigation' response range
  - soil vapour sampling event of all new and existing bores
  - further groundwater assessment including installing new groundwater wells and sampling of all new and existing

The groundwater assessment work will also assist in defining a boundary for the Groundwater Prohibition Area

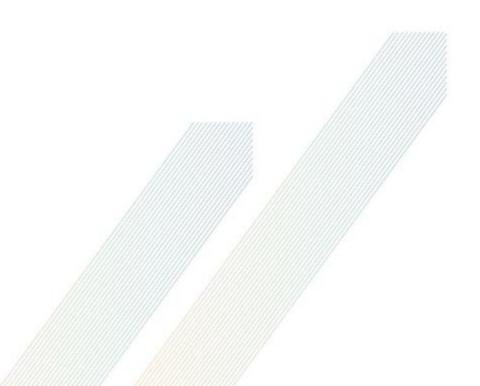
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## 5. Hills audit report update

Andrew Pruszinski

• Manager, Site Contamination







## 5. Former 'Hills' site update

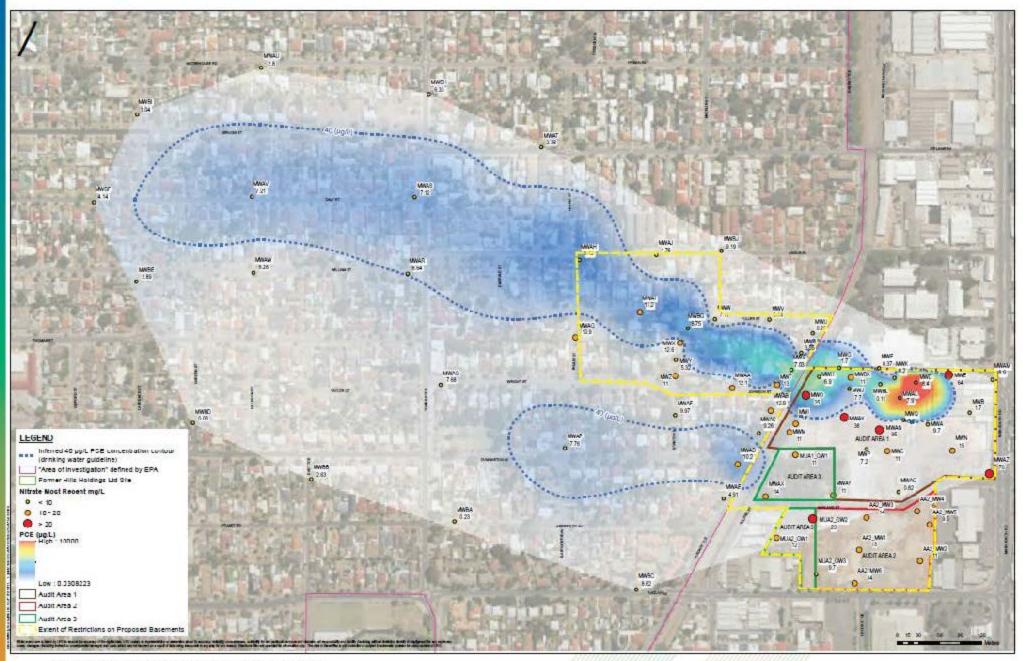
- Since 2009, the EPA has been overseeing assessment and remediation works at the former Hills Limited (Hills) vacant industrial site.
- A site contamination audit, an independent review of this work, has now been carried out by a site contamination auditor.
- The EPA has now received the site contamination audit report and the auditor is satisfied with assessment and remediation completed for mixed uses at this site, subject to various conditions.



### 'Hills' audit recommendations

- The auditor recommends the EPA consider a prohibition zone on the taking of groundwater for any purpose.
- The EPA is now defining a boundary to establish a Groundwater Prohibition Area (GPA).
- Section 103S of the *Environment Protection Act 1993* allows the EPA to prohibit or restrict the taking and using of groundwater if it is contaminated.

- The auditor has also recommended some engineering controls be installed on basements in particular circumstances.
- URS (now AECOM), the environmental consultants engaged by Hills Limited, wrote to residents in the affected area in July last year.
- A full copy of the report, with further details and maps indicating the affected areas, will be available on our website soon.



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## 5. 'Hills' community engagement

**Community Information Sessions:** 

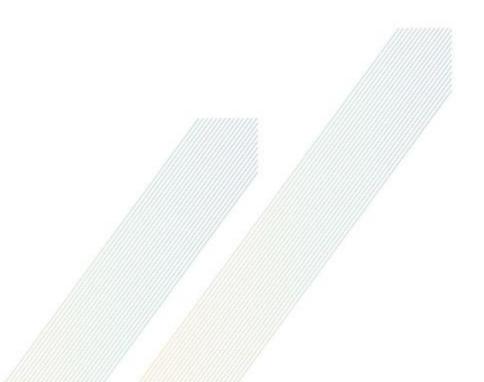
Saturday 2 April 2016: 10:00am – 12:00pm Forbes Primary School, 80 Thomas Street, South Plympton

**Tuesday 5 April 2016:** 7:00pm – 9:00pm Active Elders Hall, 27a Charles Street, Ascot Park



## **Community engagement update**

- EPA website use and update
- EPA Fact Sheet





## 5. Thank you and next meeting

Next meeting:

Wednesday 20 April 2016 6:45pm for 7:00pm start Active Elders Hall 27a Charles Street Ascot Park