

BCRG COMMUNITY FORUM 3/2017 MEETING 39

WEDNESDAY

15 NOVEMBER, 2017

6:00pm for 6:30 – 8:30 pm Brooklyn Community Centre, Cypress Avenue, Brooklyn

Chair: Jen Lilburn Notetaker: Andrea Mason

MEETING PURPOSE

To provide an update on progress towards resolution of dust, noise and odour issues

1	BCRG Welcome, Jen Lilburn
2	Brimbank City Council Update, Stuart Menzies, Director City Development
3	Community Update, Bert Boere and Bruce Light
4	Western Distributor Authority Update, per Jen Lilburn
5	EPA Victoria Update on dust, noise and odour program, Emma Roper, Team Leader Strategy and Support
6	Wrap up & Close.

The intent of these meeting notes is to promote open communication between local business, local and state government, community and EPA Victoria (EPA). They are not to be used in a manner that compromises this objective.

Notes from this meeting will be posted on the Brooklyn Industrial Precinct website and will be available to the public. Meeting participants should advise Andrea Mason or Jen Lilburn if they would like their name removed from this public document.

ACTIONS FROM THE MEETING

Action 1117_1: Brimbank CC to provide further information on the container height regulations, reversing beepers, truck movements and the planning permits for 28 Jones Rd Brooklyn.

Action 1117_2: EPA to put together an explanation of the air quality standards for the meeting notes.

Action 1117_3: EPA to report technical issues and colour coding feedback to the IT team and provide feedback to BCRG on these.

Action 1117_4: BCRG to investigate opportunities to improve communications through language and translations.

ITEM 1. WELCOME, JEN LILBURN

Jen Lilburn (Convenor) welcomed everyone to the BCRG forum, including Cr Kim Thien Truong and Cr Sam David (Brimbank City Council), Cr Mia McGregor, (Maribyrnong City Council), Cr Sandra Wilson (Hobsons Bay CC) and community representatives from Yarraville on the Nose and Brooklyn Residents Action Group, industry representatives and new meeting attendees.

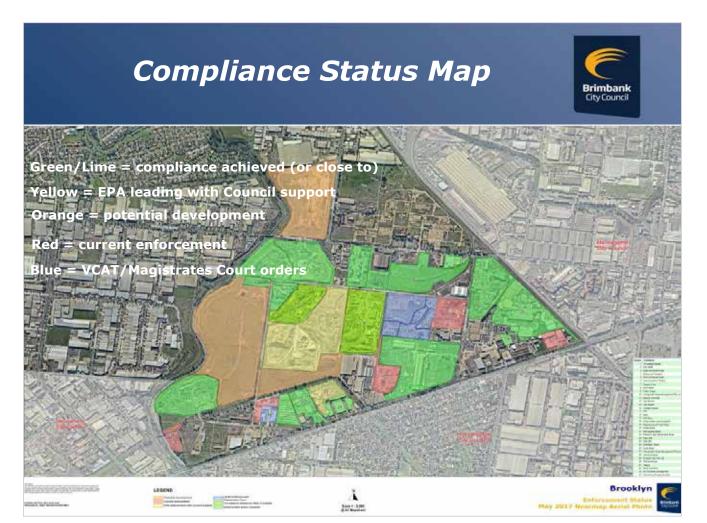
Apologies included Mayor John Hedditch and Simon Vittorio (Brimbank City Council), and Chris Bydder (EPA Victoria).

The final notes from the Aug 2017 meeting are available from the **Brooklynip website**.

ITEM 2. BRIMBANK CITY COUNCIL UPDATE, (STUART MENZIES, DIRECTOR CITY DEVELOPMENT)

The presentation can be seen in full in **Attachment 1**.

Stuart provided an update on the compliance program being undertaken by Brimbank City Council in collaboration with EPA where required.



The owners of the potential development sites (shown in orange above) are in pre-application discussions with council. Active compliance through enforcement notices and VCAT or court orders is being undertaken at several sites.

Sites with existing use rights continue to operate legally but their practices may not be ideal. Council is negotiating with these industries to find a 'whole of site' solution to help that industry work towards achieving best practice, such as formalised landscaped bund walls, site dealing, dust mitigating equipment (water spray systems), landscaping, improved drainage and on-site water re-use.





125 Bunting Road (Western Land Reclamation)

- Amended application under assessment
- Additional site sealing
- Materials recycling shed doubling in area – less impact
- Tighter permit conditions
 controlling stockpiles
- Significant landscaping



716-724 Old Geelong Road



28 Jones Road

- Permit issued shipping container storage
- Best practice operation state of the art facility
- Entire site to be sealed no dust
- Significant landscaping & beautification of Federation Trail

tex/co

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QUESTION: What are the height restrictions on container storage facilities - as this creates a visual amenity issue? What are the restrictions on the use of reversing beepers and truck movements for 28 Jones Rd to reduce noise issues in the future?

HELEN PATERSON: Generally, the height restriction is six containers, but it can be eight with a permit.

Action 1117_1: Brimbank CC to provide further information on the container height regulations, reversing beepers, truck movements and the planning permits for 28 Jones Rd Brooklyn.



Location of key industries



QUESTION: How long has council been in discussions with Delta and Western Land Reclamation - as the issues from the stockpiles is a long-standing issue for residents?

STUART: Discussions have been in progress for two years but more closely in the past nine months regarding site planning and industry investments.

BRUCE LIGHT, PRESIDENT YARRAVILLE ON THE NOSE (YOTN) commented on his disappointment with the current planning within Brimbank CC which is allowing more container storage facilities to be established on Somerville and Jones Rd, and therefore more truck traffic. The issues are not just about dust and noise but visual amenity.

He welcomed the latest decision from Hobsons Bay CC to oppose the Westgate Tunnel Project to protect the western suburbs from noise and dust from trucks. Bruce suggested all six councils affected by the tunnel work together to withdraw their 'in principle support' and actively oppose the project and promote the western end of the Eddington East/West project (West Link) as a *demonstrable superior alternative* to the current government Westgate Tunnel Project. Future planning for the area should reflect the Brooklyn Evolution Strategy and promote improved development.

STUART: The six councils, including Brimbank CC, made a joint submission via Lead West to the Western Distributor Authority in support of the West Link proposal. To achieve West Link, land reservations need to be put in place; this is the role of state government. If established, they would create certainty and drive further investment.

The container storage facilities are legitimate developments under current council plans.

QUESTION: Is there a business case that demonstrates the benefits to businesses of improving their operations and being compliant rather than fighting the system through the courts?

STUART: Unfortunately, those businesses that are the worst operators are generally short-term operators who don't care and council needs to continue to pursue them. The better businesses are here for the long term and understand the need for good governance.

QUESTION: As a new resident, I don't understand why industries such as Australian Tallow Producers, Cedar Meats and Western Land Reclamation are allowed to continue in this area and are not moved into new industrial estates further away from residential areas. Who is responsible for these and why does it take so long for prosecutions to be undertaken?

STUART: Council is responsible for the zoning and planning regulations and EPA is responsible for the licenses for waste management. We are working together with industries to try to enforce change and compliance. Some of the old sites are contaminated and not suitable for other uses, so council is focused on improving the site uses. Old planning laws such as 'existing use rights', poor permits and the fact that planning is not retrospective is hindering the rate of change. In these cases, landholders have to want to change before new licences and permits can be established.

The Brooklyn Industrial Precinct Strategy, Brooklyn Evolution, can be seen at

https://www.brimbank.vic.gov.au/plans-policies-and-strategies/strategies/brooklyn-industrial-precinct-strategy

COMMENTS: These container facility developments are very different in reality to the glossy brochure impressions and light industry that was promoted through the Brooklyn Evolution project. The sealed sites will reduce dust but increase diesel fumes, noise and truck traffic and we are worse off.

STUART: Traffic assessments are undertaken as part of the planning applications for the container facilities. There has been a lot of capital improvement including landscaping undertaken in the area to improve visual amenity. The southern part of the precinct is rezoned to Commercial 2. Also, new local laws are proposed to control stockpile heights. Brooklyn Evolution is a progressive long-term strategy which will be implemented over a longer time-frame.

COMMENT: The proposed facility in Jones Rd is an existing container yard company that has purchased this site and is moving from a leased site.

QUESTION: Will all industries be subject to comply with the EPA reforms and changes to the Act and will this improve the rate of change?

EMMA: It is hoped that the new changes will bring about a significant change to how councils and EPA can enforce compliance. The new proposals shift the burden of proof that there is no impact outside the site, to the landowner - rather than the EPA or councils having to prove a breach of permit or license as in the current system. It is expected that this will increase the number of landowners operating at a higher standard.

STUART: The new proposed system is similar to the WorkCover model where the burden of proof is on the business.

QUESTION: How do new rogue operators get to operate on particular sites – do they just come in – are they registered businesses?

STUART: Many are not operating legally, and some have come into sites with existing use rights.

ITEM 3. COMMUNITY UPDATE, BERT BOERE

BERT BOERE, PRESIDENT BROOKLYN RESIDENTS ACTION GROUP (BRAG) provided an update on recent meetings looking at the Westgate Tunnel project. The project needs to address the broader issues, including noise, cars, trucks, rail for freight and the Lead West Integrated Transport Plan. BRAG is pleased that Hobsons Bay CC has voted to remove its provisional support for the tunnel and plans to go back to government to ask for a study on what is needed for the western suburbs. There is need for a better plan as the current scope isn't sufficient to address emerging issues such as the ramps at Grieve Parade.

ITEM 4. WESTERN DISTRIBUTOR AUTHORITY UPDATE

Jen Lilburn advised that Western Distributor Authority is to have a stand at the BCRG Open House in March 2018.

An email from Western Distributor Authority 15 November 2017 stated:

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The Environment Effects Statement (EES) for the West Gate Tunnel Project was released for a six week public exhibition period from 29 May to 10 July 2017. The release of the EES and the public exhibition period were widely advertised in Melbourne and regional areas, in accordance with statutory and additional to the requirements pursuant to the Environment Effects Act 1978.

During the exhibition period, community members could access the EES, the summary booklet and all associated factsheets in hard copy at 13 information sessions and 14 temporary displays, which were held at locations along the project corridor and in Werribee, Geelong and Ballarat. Documents were also available online at the project website and on USB flash drives that were handed out at events or mailed on request.

There were 13 information sessions held in June 2017 in regard to the EES, and specialists who prepared the documents attended in order to talk to community members and answer questions. Thank you to those who made the most of these opportunities to come along and ask questions. The first information session was held in Altona North, and ahead of this, a door knock was undertaken along Millers Road between the West Gate Freeway and Geelong Road.

There were just over 500 submissions on the Project received by Planning Panels Victoria.

The Independent Advisory Committee public hearing was held for six weeks at the Footscray Community Arts Centre from Monday 14 August to Tuesday 19 September. The hearings were held Monday to Friday and included two evening sessions and a concurrent session to cater for just over 100 submitters who elected to present their position to the IAC.

The IAC have now provided a recommendation report to the Minister for Planning, and we now await the Minister for Planning's recommendation report, which is due by the end of November.

There has been a recently announced decision regarding Millers Rd, Brooklyn whereby a decision has been made to move to a single toll point on the West Gate Freeway east of Millers Road. This means there will be a reduction of the number of trucks that would have used Millers Road as a route. There has been direct contact with residents along Millers Road regarding this outcome.

Enquiries on the project are most welcome via the West Gate Tunnel website, which contains a lot of great information on the project, including a range of images. We welcome enquiries through the website, or via phone 1300 280 939. There is also the opportunity to sign up for e-news on the website.

Thank you, and we look forward to meeting you and the members of your group at the 7 March Open House.

Kind regards, Liz Evans, Manager Engagement, Western Distributor Authority

westgatetunnelproject.vic.gov.au

COMMENT: The residents along Millers Rd have been offered double glazing and fencing to reduce noise but this does nothing for the rest of Brooklyn.

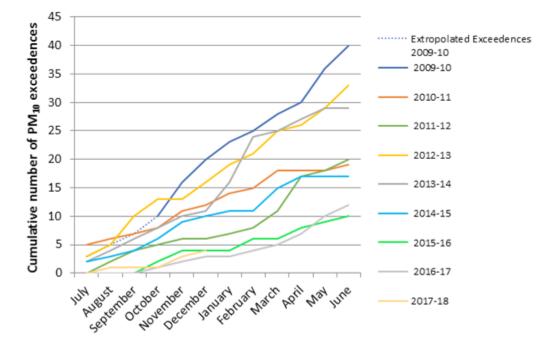
ITEM 5. EPA VICTORIA UPDATE ON DUST, NOISE AND ODOUR PROGRAM, (EMMA ROPER, TEAM LEADER STRATEGY AND SUPPORT)

The presentation can be seen in full in Attachment 2.

Emma introduced new staff members: Ramesh Dianat, Compliance Strategy Officer, Nikki Lowes, Team Leader – Field Operations and Claire Sonego, the Officer for the Protection of the Local Environment (OPLE) for Brimbank and Hobsons Bay City Council areas.

PM10 EXCEEDENCES.

This is a measure of smaller particles in the air than actual dust particles. The graph shows the number of days the readings exceeded the standard.



This second week of November posed the first big challenge for the season. Alerts for November 14 and 15 were due to northerly winds resulting in two exceedences. A long, hot and dry summer is expected so dust controls will play an important part in reducing exceedences.

COMMENT: The number of exceedences is still above acceptable levels and the old standard which was no more than 5 exceedences per year.

EMMA: The new standard is for no exceedences which is tougher than the old standard. The PM10 graph reports against the old standard for consistency. It shows that Brooklyn is still a polluted environment and still a high priority for EPA.

Action 1117_2: EPA to put together an explanation of the air quality standards for the meeting notes.

From the previous meeting notes: The data collected is based on **daily measurements**. The National Environmental Protection Council sets the standards and interventions and this is based on regional air quality. The standard is proposed to change from no more than 5 exceedences of 50 µg/m3 in a year to zero exceedences of 50 µg/m3 in a year except for extreme environmental events such as fire or dust storms. The annual average standard of no more than 22.2 µg/m3 in a year has been set because the effects of poor air quality on health are generally accumulative and need to be below this level.

QUESTIONS: What happened to the proposal to install another dust monitor in Altona North to gauge the difference in dust levels beyond Brooklyn? What is being done to address the issue of measuring the peaks of dust over 50 ug/m3 over 3-5 hours which are not picked up on the old system which uses 24-hour averaged readings?

EMMA: EPA is investigating emerging technology that may be suitable for further monitoring within the area.

The data is collected every 5 minutes and is reported in different formats including 24-hour averages. The data is monitored by the air quality scientists to see if any action is required. EPA mostly works from the data, but it does help to get onground information from complaints received.

QUESTION: Given today's heavy winds what has been implemented to mitigate the dust pollution currently affecting Brooklyn and surrounding suburbs? PM10 levels have progressively worsened since 6am with a peak hourly reading of 159ug/m3 at the time of lodging this question with the Chair i.e. this is the latest reading published by the EPA http://www.epa.vic.gov.au/ our-work/monitoring-theenvironment/epa-airwatch. All the reports for the day can be seen in **Appendix 1**.



Further questions were raised regarding the high dust levels and recording systems for November 14 and 15 including:

- Why does the data on the EPA website differ depending on the device used to view the website?
- Why doesn't the colour coding system in the report reflect the standards i.e. Yellow indicates an Air Quality Index of "Fair" but this reading is greater than the standard of 50ug/m3 for PM10?
- Did anyone attend onsite during this event e.g. the OPLE or other EPA officers?
- Did any of the industries enact their dust mitigation plans?

EMMA ROPER AND NIKKI LOWES responded that the EPA officers were on standby but weren't deployed. When necessary, an alert is sent to industry, Department of Human Services and educational facilities to enable them to enact their management plans for dust mitigation e.g. use of water carts. They were not aware which, if any, industries enacted their plans in this instance, but EPA staff have been sent out during past events to monitor this. The new OPLE staff members were in training at the time and are not yet capable of attending. The current staff were deployed elsewhere. There are also eight new environment protection officers expected to be recruited soon which might help future resourcing issues.

The reporting can be confusing as the colour coding relates to the Air Quality Index which is different to the Particle PM10 measurements.

The EPA website reports have IT issues and these concerns will be referred to the IT team.

Action 1117_3: EPA to report technical issues and colour coding feedback to the IT team and provide feedback to BCRG on these.

		DD	DED	ORT
UD	UU			UKI

Count of Month	Column Labels										
Row Labels	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	Grand Total
1	28	54	21	11	34	28	11	14	45	58	304
2	40	38	46	18	30	15	12	9	21	38	267
3	115	70	125	41	31	15	7	28	48	31	511
4	86	65	211	77	45	13	9	8	66	42	622
5	108	68	208	46	55	36	10	21	38	50	640
6	67	84	141	82	54	13	17	7	32	60	557
7	96	191	83	37	87	40	11	12	19	96	672
8	137	60	114	60	48	13	9	12	34	155	642
9	153	69	64	48	54	19	25	8	16	77	533
10	76	59	21	27	67	11	20	18	22	50	371
11	70	69	34	49	32	4	11	7	21	5	302
12	59	50	37	15	19	5	6	29	37		257
Grand Total	1035	877	1105	511	556	212	148	173	399	662	5678

The data shows a significant jump in the number of odour complaints in 2017. EPA needs the community to continue to report these as it provides the necessary evidence required to make a case against responsible industries.

QUESTION: What is the definition of odour and what is the number of complaints required to trigger a response?

EMMA: The odour has to be offensive to the human smelling it to be reportable. EPA needs enough complaints registered, generally around 5 complaints in a short time, to trigger the deployment of an officer to confirm the odour. The officer's report must also be confirmed by a resident. Remedial action to upgrade the facilities is often a better outcome in reducing odour than just a sanction which requires no actual works to be undertaken. All complaints, including those from non-residents, are used for intelligence to decide where to conduct audits of sites etc. Trends and underlying issues can then be raised.

NIKKI: EPA can respond to these complaints by developing a remedy or a sanction. For example, in the case of Australian Tallow Producers there is enough evidence from the reports to craft a Pollution Abatement Notice which will require specific works to be undertaken. We need the community to complain.

QUESTION: The community is encouraged to report but the lack of follow up reports from the EPA to the caller is an ongoing issue. This was confirmed following the last BCRG meeting when there was a high odour issue. What is being done about this?

EMMA: We have heard this many times and there is now one communications officer in the team to assist the Call Centre – it is disappointing that calls are not being returned. Following the last BCRG forum, Jim Demetriou, EPA Principal Odour Expert, discussed odour issues with the key industries.

At the March 7, 2018 BCRG Open house Chris Bydder from EPA is planning to have an odour stand to help the community identify and report odours.

OPERATIONS UPDATE

The following operational activities have been undertaken since the last BCRG meeting. Key dust sites were a focus – with a view to getting long term processes in place.

- 6 notices issued on sites in Brooklyn since August 2017
- 3 notice amendments
- 3 draft notices currently with duty holders
- 14 inspections of sites in Brooklyn

Remedy (Doc No)	Notice Type	Notice Recipient	Premises	Premises - Street Address (Key)	Premises Suburb	Notice Served Date
0090007875	Pollution Abatement Notice	AUSTRALIAN WOOD EXPORTERS PTY LTD	AUSTRALIAN WOOD EXPORTERS PTY LTD [YARRA	355 - 359 FRANCIS ST YARRAVILLE VIC 3013	YARRAVILLE	28/06/2017
0090008004	Pollution Abatement Notice	SUGAR AUST PTY LTD	SUGAR AUST PTY LTD [YARRAVILLE]	Yarraville Refinery 265 Whitehall ST YARRAVILLE VIC 3013	YARRAVILLE	22/08/2017
0090007984	Clean Up Notice	HEWSON, ANDREW JAMES & ANDREW HENRY	HEWSON, ANDREW JAMES & ANDREW HENRY	As per area in "Attachment A" 594 GEELONG RD BROOKLYN VIC 30	BROOKLYN	10/10/2017

...continued overleaf

Remedy (Doc No)	Notice Type	Notice Recipient	Premises	Premises - Street Address (Key)	Premises Suburb	Notice Served Date
0090007985	Pollution Abatement Notice	HEWSON, ANDREW JAMES & ANDREW HENRY	HEWSON, ANDREW JAMES & ANDREW HENRY	As per area in "Attachment A" 594 GEELONG RD BROOKLYN VIC 30	BROOKLYN	10/10/2017
0090007986	Clean Up Notice	HEWSON, ANDREW JAMES & ANDREW HENRY	ANDREW HENRY HEWSON [BROOKLYN]	69 BUNTING RD BROOKLYN VIC 3012	BROOKLYN	10/10/2017
0090007987	Pollution Abatement Notice	HEWSON, ANDREW JAMES & ANDREW HENRY	ANDREW HENRY HEWSON [BROOKLYN]	69 BUNTING RD BROOKLYN VIC 3012	BROOKLYN	10/10/2017
0090008069	Pollution Abatement Notice	COATES HIRE OPERATIONS PTY LTD	COATES HIRE OPERATIONS PTY LTD	BUILDING 4 1 - 7 CAWLEY RD YARRAVILLE VIC 3013	YARRAVILLE	23/10/2017
0090008132	Pollution Abatement Notice	SIMS METAL MANAGEMENT LIMITED	SIMS METAL MANAGEMENT LIMITED	44 - 60 McDonald RD BROOKLYN VIC 3012	BROOKLYN	2/10/2017

QUESTIONS: Are there plans to measure the dust coming off site near Geelong Rd, as it is still a major health issue for the community? Is it possible to begin measuring PM2.5 in Brooklyn and surrounds, possibly at the Brooklyn monitoring station, to establish some baseline data prior to the Westgate Tunnel project? If the tunnel goes ahead with inadequate filters planned for the tunnel, then we will need proof of any change in conditions.

EMMA: EPA is developing a proposal to get new monitors, pending funding. The dust shouldn't be leaving the site and the new Act will hopefully help address these issues by moving the burden of proof onto the businesses.

PM2.5 was monitored years ago in Brooklyn and found not to be an issue at that time. There are monitoring stations proposed for a wider area including Footscray, by the Western Distributor Authority to inform their Environment Effects Statement. The other tunnels in Melbourne are licensed facilities and their exhaust stacks are monitored and enforced if necessary. It is not known if these results will be available to the public.

QUESTION: What do we do when the EPA call centre makes claims about EPA being too busy to respond to our complaints? How do we contact the Officer for the Protection of the Local Environment (OPLE)?

EMMA: This is not an appropriate response as the call centre do not make decisions about EPA triage. That is done by EPA staff. If you have concerns with call centre staff you should ask to speak to their Manager.

The OPLEs won't be on the ground until 2018 however there are still other EPA staff around now.

They can be contacted via the EPA hotline; however their role is not as extensive as the other EPA staff.

Officers for the Protection of the Local Environment (OPLE)

- Recommendation 18 of EPA's Independent Inquiry Report: to deliver an EPA that is more responsive to local and regional issues.
- OPLE Pilot Program is designed to test the effectiveness of employing locally based officers imbedded within local councils, to respond to smaller scale waste and pollution issues arising from smaller business & industry.
- OPLEs will be EPA employees, trained and appropriately authorised under the EP Act (restricted) to respond to lower scale pollution and waste issues, including noise, odour, dust, litter and septic tanks.
- OPLEs will also provide information and education activities to support the prevention of pollution, proactive inspections of premises to support compliance.
- The 15-month Pilot will test the effectiveness of 10 OPLEs imbedded across 13 councils (2 clusters) representing metro, urban fringe, rural and regional centres.
- OPLEs will have dedicated EPA mentors from each of our regional offices, and EPA central support staff to provide access to technical advice and continuously monitor effectiveness and consistency across state.

QUESTION: Will evidence provided by the OPLE be considered as part of reporting?

 Environment Protection Autority Victoria
 Environment Protection Autority Victoria

 Image: State of the state

EMMA: Yes, but it still needs residents to report and verify the odour.

QUESTION: What improvements can be made in Brooklyn to improve communication to more residents through language and translation of information?

EMMA: All government sites, including EPA, have translation facilities available but there are still large parts of the community missing out on the information.

Action 1117_4: BCRG to investigate opportunities to improve communications through language and translations.	7
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ITEM 6. MEETING WRAP

BCRG meetings for 2018:

Open House Wednesday 7 March - Drop in between 5pm and 7pm

Community Forums: Wednesday 11 July and Wednesday 14 November,

Meeting closed 8.35pm

Meeting Attendance Record – 15 November, 2017

28 people registered their attendance.

APPENDIX 1

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PM Readings from 15 November 2017 **Click here to view**



6-7am

EPA air quality hourly update: November 15, 2017 6.00 am - 7.00 am

Please note that current data may not be shown for some air quality monitoring stations. Measurements are made continuously at air monitoring stations, but there may be temporary technical issues with the collection and display of data.

H	our: <u>current</u>	next previo	ous cho	ose		5	how: data rea	adings <u>index</u>	values	<u>}</u>
		Data reading	5							Air quality index
Region	Station	Carbon Monoxide	Ozone	Nitrogen Dioxide	Sulfur Dioxide	Particles as PM2.5	Particles as PM10	Visibility Reduction	AQI	Summary
	Units	ррт	ppb	ppb	ррь	ug/m3	ug/m3	none		
EAST	Macleod*					4.5*			18	VERY GOOD
	Alphington	0.1	26	10	O	8.5	29.3	0.48	37	GOOD
	Mooroolbark*		31			6.2 [*]	27.8	0.44	35	GOOD
	Box Hill*					3.1*			13	VERY GOOD
	Brighton*					6.0*			24	VERY GOOD
	Dandenong*		33	11		7.2 ^s	28.0	0.47	35	GOOD
	Melbourne CBD					9.9			39	GOOD
WEST	Melton*		37			5.5*			37	GOOD
	Pt. Cook*		27			6.5*		0.53	27	VERY GOOD
	Altona North			16	O					N/A
	Brooklyn						61.6	0.58	77	FAIR
	Footscray		31	11		8.5	20.8		34	GOOD
NORTH	Melton									
GEELONG	Geelong Sth.	0.2	33	7	1	7.4	32.6	0.53	41	GOOD
LATROBE VALLEY	Morwell Sth.	0.1	1	14	1	7.4		0.74	31	VERY GOOD
	Morwell East	0.2			O	8.1		0.60	32	VERY GOOD
	Traralgon	0.2	1	15	O		33.9	0.58	42	GOOD
	Moe					5.7			23	VERY GOOD
	Churchill					5.8			23	VERY GOOD
REGIONAL VICTORIA	Wangaratta									



Air quality index

Very good 0–33 Good 34–66 Fair 67–99 Poor 100–149 Very poor 150+

7-8am

EPA air quality hourly update: November 15, 2017 7.00 am - 8.00 am

Please note that current data may not be shown for some air quality monitoring stations. Measurements are made continuously at air monitoring stations, but there may be temporary technical issues with the collection and display of data.

н	our: <u>current</u>	<u>next</u> previe	ous cho	ose		5	how: data rea	adings <u>index</u>	values	<u>1</u>
		Data reading	5							Air quality index
Region	Station	Carbon Monoxide	Ozone	Nitrogen Dioxide	Sulfur Dioxide	Particles as PM2.5	Particles as PM10	Visibility Reduction	AQI	Summary
	Units	ppm	ppb	ppb	ppb	ug/m3	ug/m3	none		
EAST	Macleod*					4.5*			18	VERY GOOD
	Alphington	0.1	23	12	O	8.5	31.5	0.63	39	GOOD
	Mooroolbark*		32			6.2*	28.1	0.42	35	GOOD
	Box Hill*					3.2*			13	VERY GOOD
	Brighton*					6.1*			24	VERY GOOD
	Dandenong*		34	10		7.2*	39.0	0.47	49	GOOD
	Melbourne CBD					9.5			38	GOOD
WEST	Melton*		37			5.6*			37	GOOD
	Pt. Cook*		27			6.6*		0.60	27	VERY GOOD
	Altona North			15	0					N/A
	Brooklyn						86.7	0.65	108	POOR
	Footscray		29	13		8.7	27.2		35	GOOD
NORTH	Melton									
GEELONG	Geelong Sth.	0.2	27	12	1	7.5	29.3	0.51	37	GOOD
LATROBE VALLEY	Morwell Sth.	0.1	4	11	1	7.5		0.58	30	VERY GOOD
	Morwell East	0.2			O	8.2		0.63	33	VERY GOOD
	Traralgon	0.3	8	18	1		72.0	0.78	90	FAIR
	Moe					5.7			23	VERY GOOD
	Churchill					5.8			23	VERY GOOD
REGIONAL VICTORIA	Wangaratta									



View the hourly air quality interactive map.

Air quality index

Very good 0–33 Good 34–66 Fair 67–99 Poor 100–149 Very poor 150+

8-9am

EPA air quality hourly update: November 15, 2017 8.00 am - 9.00 am

Please note that current data may not be shown for some air quality monitoring stations. Measurements are made continuously at air monitoring stations, but there may be temporary technical issues with the collection and display of data.

		Data reading	5							Air quality index
Region	Station	Carbon Monoxide	Ozone	Nitrogen Dioxide	Sulfur Dioxide	Particles as PM2.5	Particles as PM10	Visibility Reduction	AQI	Summary
	Units	ррт	ppb	ppb	ppb	ug/m3	ug/m3	none		
EAST	Macleod*					4.6*			18	VERY GOO
	Alphington	0.1	22	11	O	8.4	42.8	0.50	53	GOOD
	Mooroolbark*		35			6.2*	26.8	0.41	35	GOOD
	Box Hill*					3.3*			13	VERY GOO
	Brighton*					6.2*			25	VERY GOO
	Dandenong*		38	7		7.3*	62.8	0.49	79	FAIR
	Melbourne CBD					9.5			38	GOOD
WEST	Melton*		36			5.7*			38	GOOD
	Pt. Cook*		31			6.6*		0.49	31	VERY GOO
	Altona North			8	O					N/A
	Brooklyn						124.7	0.78	158	VERY POO
	Footscray		32	9		8.7	47.0		59	GOOD
NORTH	Melton									
GEELONG	Geelong Sth.	0.1	30	10	1	7.7	32.8	0.48	41	GOOD
LATROBE VALLEY	Morwell Sth.	0.1	8	10	1	7.8		0.60	31	VERY GOO
	Morwell East	0.2			O	8.4		0.63	33	VERY GOO
	Traralgon	0.3	17	17	O	8.3	43.6	0.68	55	GOOD
	Moe					5.4			22	VERY GOO
	Churchill					5.8			22	VERY GOO
REGIONAL VICTORIA	Wangaratta									

60

Very good 0–33 Good 34–66 Fair 67–99 Poor 100–149 Very poor 150+

9-10am

EPA air quality hourly update: November 15, 2017 9.00 am - 10.00 am

Please note that current data may not be shown for some air quality monitoring stations. Measurements are made continuously at air monitoring stations, but there may be temporary technical issues with the collection and display of data.

		Data reading	5							Air quality index
Region	Station	Carbon Monoxide	Ozone	Nitrogen Dioxide	Sulfur Dioxide	Particles as PM2.5	Particles as PM10	Visibility Reduction	AQI	Summary
	Units	ррт	ppb	ppb	ppb	ug/m3	ug/m3	none		
EAST	Macleod*					4.6*			18	VERY GOOD
	Alphington	0.1	24	7	O	8.2	64.7	0.51	81	FAIR
	Mooroolbark*		37			6.2*	30.3	0.41	38	GOOD
	Box Hill*					3.3*			13	VERY GOOD
	Brighton*					6.3*			25	VERY GOOD
	Dandenong*		38	7		7.3*	50.1	0.47	63	GOOD
	Melbourne CBD					9.3			37	GOOD
WEST	Melton*		37			5.8*			37	GOOD
	Pt. Cook*		35			8.6*		0.48	35	GOOD
	Altona North			6	O					N/A
	Brooklyn						145.7	0.74	182	VERY POOF
	Footscray		37	7		8.5	58.2		70	FAIR
NORTH	Melton									
GEELONG	Geelong Sth.	0.1	35	8	1	8.1	39.2	0.45	49	GOOD
ATROBE VALLEY	Morwell Sth.	0.1	15	9	1	8.0		0.70	32	VERY GOOD
	Morwell East	0.2			O	8.6		0.61	35	GOOD
	Traralgon	0.3	22	10	O	8.9	39.1	0.63	49	GOOD
	Moe					5.4			22	VERY GOOD
	Churchill					5.3			21	VERY GOOD
REGIONAL VICTORIA	Wangaratta									



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Air quality index

Very good 0–33 Good 34–66 Fair 67–99 Poor 100–149 Very poor 150+

10-11am

EPA air quality hourly update: November 15, 2017 10.00 am - 11.00 am

Please note that current data may not be shown for some air quality monitoring stations. Measurements are made continuously at air monitoring stations, but there may be temporary technical issues with the collection and display of data.

Monoxide Dioxide Dioxide PH2.5 PM10 Reduction Units ppm ppb ppb ppb ugim3 ugim3 none EAST Macleod* 0.1 30 4 0 8.2 48.2 0.48 60 600 Monocollar.* 0.1 30 4 0 8.2 48.2 0.48 60 600 Monocollar.* 0.1 30 4 0 8.2 48.2 0.48 60 600 Binghon* 0.1 30 4 0 8.2 48.5 0.45 61 600 Binghon* 0.1 42 5 0.1 7.4 48.5 0.45 61 600 600 6.5 0.45 61 600 600 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5 6.5		I	Data reading	5							Air quality index
EAST Madeod* Imageod* Imageod* <thimageod*< th=""> <thimageod*< th=""> <thima< th=""><th>Region</th><th>Station</th><th></th><th>Ozone</th><th>Nitrogen Dioxide</th><th>Sulfur Dioxide</th><th>Particles as PM2.5</th><th>Particles as PM10</th><th>Visibility Reduction</th><th>AQI</th><th>Summary</th></thima<></thimageod*<></thimageod*<>	Region	Station		Ozone	Nitrogen Dioxide	Sulfur Dioxide	Particles as PM2.5	Particles as PM10	Visibility Reduction	AQI	Summary
Alphington 0.1 30 4 0 8.2 443.2 0.48 60 6000 Mocroobark* 39 6.2 28.0 0.41 39 6000 Box Hilf* 39 6.2 28.0 0.41 39 6000 Box Hilf* 6.2 28.0 0.41 39 6000 Box Hilf* 6.2 28.0 0.41 39 6000 Box Hilf*		Units	ррт	ppb	ppb	ppb	ug/m3	ug/m3	none		
Morrollark* Morrollark* SP SP <td>EAST</td> <td>Macleod*</td> <td></td> <td></td> <td></td> <td></td> <td>4.6*</td> <td></td> <td></td> <td>18</td> <td>VERY GO</td>	EAST	Macleod*					4.6*			18	VERY GO
Box Hill* Image		Alphington	0.1	30	4	O	8.2	48.2	0.48	60	GOOD
Righton* Image: second s		Mooroolbark*		39			6.2*	28.0	0.41	39	GOOD
Image: Section of the sectio		Box Hill*					3.3*			13	VERY GO
Melloam Melloam S Melloam S		Brighton*					6.2*			25	VERY GO
CBD CBD <td></td> <td>Dandenong*</td> <td></td> <td>42</td> <td>5</td> <td></td> <td>7.4*</td> <td>48.5</td> <td>0.45</td> <td>61</td> <td>GOOD</td>		Dandenong*		42	5		7.4*	48.5	0.45	61	GOOD
Pi. Cook* 37 Cook 38 39.2 Code Code Code Code Cook Cook Cook		Melbourne CBD					9.2			37	GOOD
Altona North Image: second secon	WEST	Melton*		37			5.8*			37	GOOD
Model Model <th< td=""><td></td><td>Pt. Cook*</td><td></td><td>37</td><td></td><td></td><td>6.6*</td><td></td><td>0.52</td><td>37</td><td>GOOD</td></th<>		Pt. Cook*		37			6.6*		0.52	37	GOOD
Footscray 40 50 8.4 37.5 47 GOX NORTH Melton		Altona North			5	O					N/A
NORTH Melton Image: Constraint of the state of the s		Brooklyn						99.8	0.60	125	POOR
GEELONG Geelong Sth. 0.1 33 8 1 8.6 39.2 0.44 49 GOO LATROBE VALLEY Morwell Sth. 0.2 34 7 1 8.6 39.2 0.44 49 GOO LATROBE VALLEY Morwell Sth. 0.2 34 7 1 8.4 0.60 34 GOO Morwell East 0.2 34 7 1 8.4 0.60 34 GOO Morwell East 0.2 34 7 0 9.1 0.52 36 GOO Morwell East 0.2 39 5 0 9.3 23.6 0.50 39 GOO Moe 1 6.9 6.9 6.9 2.1 VERY O REGIONAL Wangaratta Image: State st		Footscray		40	5		8.4	37.5		47	GOOD
LATROBE VALLEY Morwell Sth. 0.2 34 7 1 8.4 0.00 34 0.00 Morwell Est 0.2 34 7 1 8.4 0.60 34 0.00 Morwell Est 0.2 34 7 1 8.4 0.60 34 0.00 Morwell Est 0.2 34 7 0 9.1 0.52 38 0.00 Traraigon 0.3 39 5 0 9.3 23.8 0.50 39 600 More 6 6.9 23 VERY 0 Churchill 6 6.2 6.0 21 VERY 0 REGIONAL VICTORIA Wangaratta 6 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 6.0 7 7 8 7 9 7 9 7 9 7 9 7 9 9 9 9 9	NORTH	Melton									
Morvel East 0.2 0 0 9,1 0.52 38 600 Traraigon 0.3 39 5 0 9,3 23.6 0.50 39 600 Moe 0 6 6.9 0.52 23.6 0.50 39 600 Moe 0 6 6.2 0.50 23 VERV 0 Churchill 0 0 6.2 0.50 21 VERV 0 REGIONAL VICTORIA Wangaratta 0 0 0.50 0.50 21 VERV 0	GEELONG	Geelong Sth.	0.1	33	8	1	8.6	39.2	0.44	49	GOOD
Traraigon 0.3 39 5 0 9.3 23.6 0.50 39 900 Moe Moe 6.9 6.9 2.0 VERV 0 2.0 VERV 0 Churchill Moe 6.9 6.2 0.50 2.1 VERV 0 REGIONAL VICTORIA Wangaratta Image: second se	LATROBE VALLEY	Morwell Sth.	0.2	34	7	1	8.4		0.60	34	GOOD
Moe 60 60 23 VERY (Moe 6.9 23 VERY (Churchill 6.2 21 VERY (REGIONAL VICTORIA Wangaratta 1 1 1 1 1 1 1		Morwell East	0.2			0	9.1		0.52	36	GOOD
Churchill 6.2 21 VERY 0 REGIONAL VICTORIA Wangaratta Image: Churchill integration prop. Image: Churchill integration prop.		Traralgon	0.3	39	5	O	9.3	23.6	0.50	39	GOOD
REGIONAL Wangaratta		Moe					5.9			23	VERY GO
VICTORIA		Churchill					5.2			21	VERY GO
View the hourly air quality interactive map.		Wangaratta									
View the fourty an quality interactive risp. Air quality index	· ····································	View the hourly	air quality int	eractive n	nap. Air	quality	index				

11-12noon

EPA air quality hourly update: November 15, 2017 11.00 am - 12 noon

Please note that current data may not be shown for some air quality monitoring stations. Measurements are made continuously at air monitoring stations, but there may be temporary technical issues with the collection and display of data.

		Data reading	5							Air quality index
Region	Station	Carbon Monoxide	Ozone	Nitrogen Dioxide	Sulfur Dioxide	Particles as PM2.5	Particles as PM10	Visibility Reduction	AQI	Summary
	Units	ррт	ppb	ppb	ррь	ug/m3	ug/m3	none		
EAST	Macleod*					4.8*			18	VERY GOO
	Alphington	0.1	32	4	O	8.4	54.8	0.48	68	FAIR
	Mooroolbark*					6.2*			25	VERY GOD
	Box Hill*					3.3*			13	VERY GOO
	Brighton*					6.2*			25	VERY GOO
	Dandenong*		43	5		7.4*	45.0	0.44	56	GOOD
	Melbourne CBD					9.1			37	GOOD
WEST	Melton*		38			5.8*			38	GOOD
	Pt. Cook*		36			6.6*		0.47	36	GOOD
	Altona North			5	O					N/A
	Brooklyn						158.9	0.74	199	VERY POO
	Footscray		39	6		8.4	47.8		60	GOOD
NORTH	Melton									
GEELONG	Geelong Sth.	0.2	33	8	1	8.7	35.2	0.44	44	GOOD
TROBE VALLEY	Morwell Sth.	0.2	46	4	1	8.8		0.49	48	GOOD
	Morwell East	0.2			3	9.9		0.49	39	GOOD
	Traralgon	0.3	46	2	O	9.5	28.0	0.46	46	GOOD
	Moe					6.6			28	VERY GOO
	Churchill					5.3			21	VERY GOO
REGIONAL VICTORIA	Wangaratta									
·	View the hourly	air quality int	eractive m	Air	quality	index				