

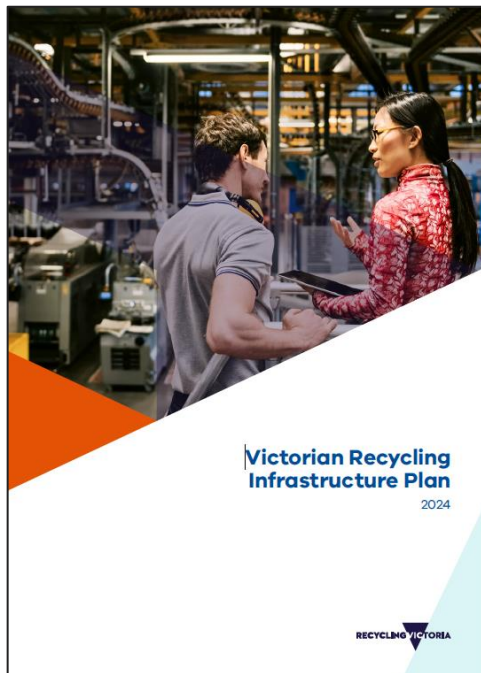


# VRIP Pre-brief

ALOA



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## Contents:

1. Introduction & purpose
2. System overview and policy context
3. Material stream infrastructure needs
4. Recovery & transfer infrastructure
5. Residual Waste
6. Regional Opportunities
7. Land use planning & environmental approvals
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9. Directions & actions

## Appendixes

Future WRR infrastructure list, landfill schedule, modelling assumptions, references



# Landfill locations and waste projections



Table 13 Number of landfills currently accepting materials by type

Region	Number of landfills currently accepting materials by type							Number of landfills
	MSW	C&D	C&I	Cat B <sup>46</sup>	Cat C <sup>47</sup>	Cat D <sup>48</sup>	SCA <sup>49</sup>	PWA <sup>50</sup>
<b>Total</b>	<b>39</b>	<b>44</b>	<b>38</b>	<b>1</b>	<b>18</b>	<b>19</b>	<b>4</b>	<b>28</b>
								<b>47</b>

Figure 39 Landfills in Victoria

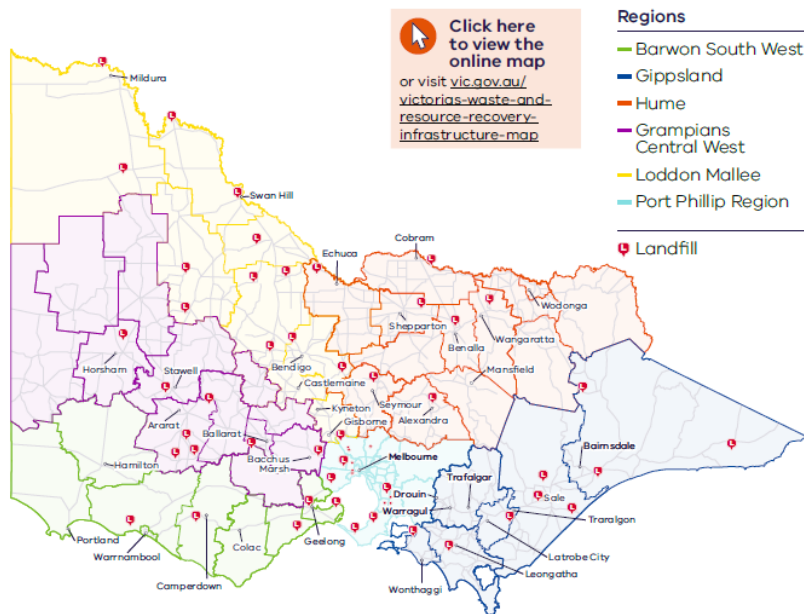
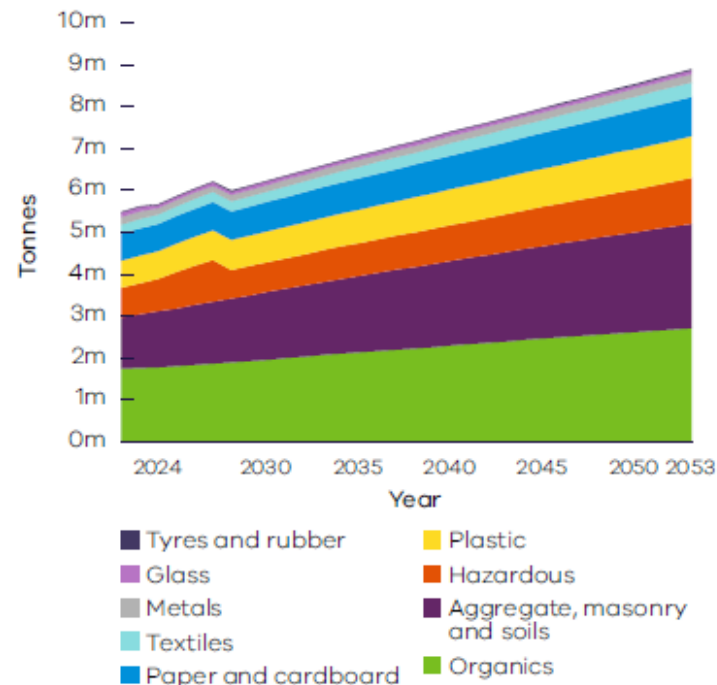


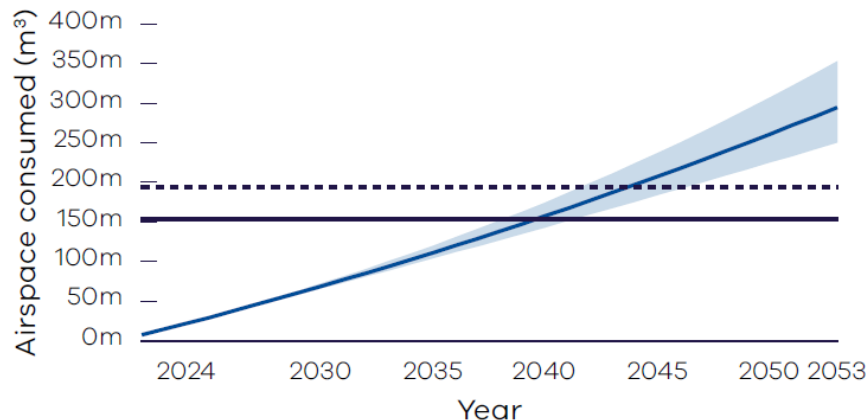
Figure 37 Residual waste by material stream over time



# Landfill capacity analysis



Figure 41 Residual waste demand with 1% margin for error



- Total capacity with Development Licence and Planning Approval (as at 2023)
- ... Estimated total potential landfill capacity (as at 2023)
- Projected Residual Waste (with +/- 1% compounded margin of error)

Estimated total potential landfill capacity is calculated from data collected via the voluntary landfill survey of a landfill operators.

**Thermal Waste to Energy** will decrease the volume of material going to landfill.

Victoria has **existing policy objectives** that would reduce the residual waste volumes further.

Opportunities to reduce waste include:

- Generate less waste .
- Recycle more and increasing resource recovery.
- Increase diversion via advanced sorting technologies, non-thermal Waste to Energy or new and emerging technologies.

Making progress towards these objectives could keep 30-year cumulative residual waste volumes below the State's landfill capacity .

**As such, this inaugural VRIP will not take the step of including a new landfill location on the schedule.**



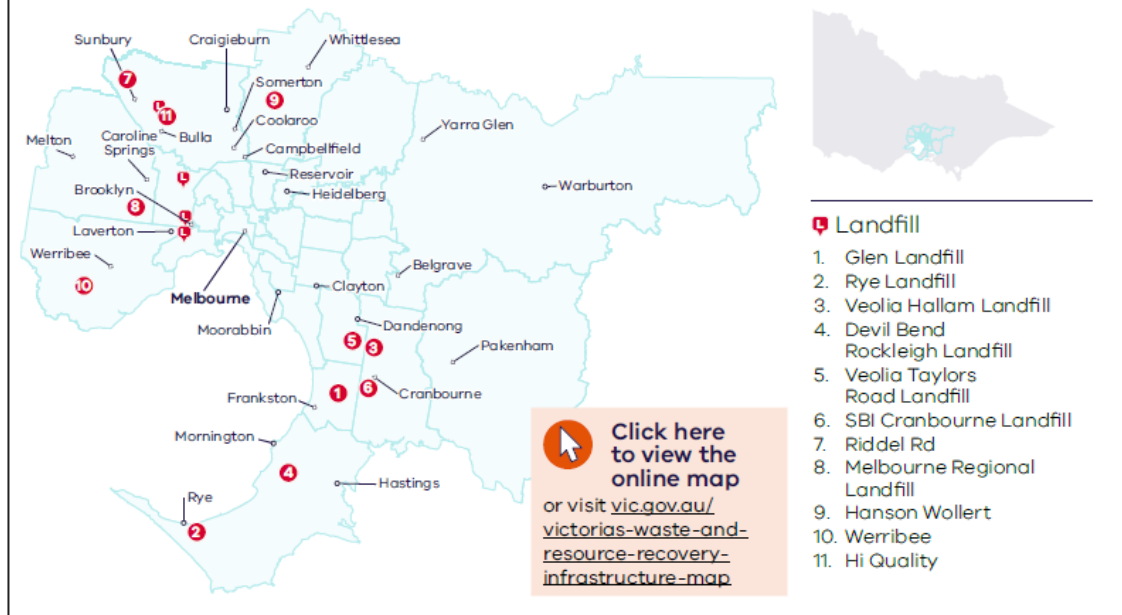
## Capability challenges

- Putrescible airspace
- Cat B landfills
- Soil containing Asbestos Only
- Surge Capability

## Place-based Challenges

- SE Melbourne Landfills
- Geelong Landfills
- Loddon Mallee mining soil
- Regional landfills

Figure 42 Key Port Phillip and nearby landfills



# Overall Assessment & Investment Directions



Material Stream / Infrastructure Type	Recovery Rate	Total Waste (Mt)		Capacity & Capability Analysis									
				2024 –2026	2027 –2029	2030 –2032	2033 –2035	2036 –2038	2039 –2041	2042 –2044	2045 –2047	2048 –2050	2051 –2053
Residual waste**	n/a	5.7	8.9										



Capacity is unknown / insufficient to meet projected demand, and greater capability needed [investment focus is both capacity and capability needs]



Capacity is sufficient to meet projected demand, but greater capability needed [investment focus is capability needs]



Capacity is sufficient to meet the demand projections [investment focus is optimising infrastructure]

\*\* Capacity analysis based on Development License Approved Landfill Capacity

## Directions

- **Near term (0–6 yrs):** Maximised use of existing landfill capacity; key system constraints (e.g. Category B waste) and place-based challenges (e.g. Loddon Mallee mining spoils) addressed
- **Medium term (6–12 yrs):** Increased system resilience (e.g. surge capacity) and increased use of waste to energy facilities to divert waste from landfill
- **Ongoing:** Increased resource recovery to reduce reliance on landfills, particularly for organics, plastics, soils, paper, and cardboard.

# Landfill Schedule



Table 19 Existing Landfill Schedule

Licenced Material Types														
Permission Number	EPA Permission Duty Holder	Site/Premises Address	LGA	Anticipated timeframe DLA landfill capacity is exceeded	Region	MSW	C&D	C&I	B	C	D	Soil containing asbestos only	Packaged waste asbestos	
Barwon South West														
OL000072476	CITY OF GREATER GEELONG	502 – 510 Founds Rd Drysdale VIC 3222 AU	Greater Geelong	1–5 years	Barwon SW	Yes	Yes	Yes	No	No	No	No	Yes	
OL000012192	CORANGAMITE SHIRE COUNCIL	Lot 1 County Boundary West Rd Cobrico VIC 3266 AU	Corangamite	26–30 years	Barwon SW	Yes	Yes	Yes	No	No	No	No	No	
OL000011848	GEELONG LANDFILL PTY LTD	69 Hamilton Hwy, Fyansford, Victoria, 3218	Greater Geelong	16–20 years	Barwon SW	No	Yes	No*	No	No	No	Yes	Yes	
	MOYNE SHIRE COUNCIL	Killarney Landfill	Moyne	Not included in analysis	Barwon SW	No	Yes	No	No	No	No	No	No	
OL000021470	SURF COAST SHIRE COUNCIL	50 Coalmine Rd Anglesea VIC 3230 AU	Surf Coast	1–5 years	Barwon SW	Yes	Yes	Yes	No	No	No	No	No	
Gippsland														
OL000012129	BASS COAST SHIRE COUNCIL	1685 Bass Hwy Glen Forbes VIC 3990 AU	Bass Coast	11–15 years	Gippsland	Yes	Yes	Yes	No	No	Yes	No	Yes	
OL000070000	CENTRAL GIPPSLAND REGION WATER CORPORATION	1950 Longford-Loch Sport Rd Dutson VIC 3851 AU	Wellington	1–5 years	Gippsland	No	No	No*	No	No	No	No	Yes	
OL000072826	EAST GIPPSLAND SHIRE COUNCIL	200 Johnstons Rd Forge Creek VIC 3875 AU	East Gippsland	30+ years	Gippsland	Yes	Yes	Yes	No	Yes	Yes	No	Yes	
P000300528	EAST GIPPSLAND SHIRE COUNCIL	20 Coast Road Cann River 3890	East Gippsland	Not included in analysis	Gippsland	Yes	Yes	Yes	No	No	No	No	No	
OL000025565	LATROBE CITY COUNCIL	64 Hyland Hwy Lay Yang VIC 3844 AU	Latrobe	11–15 years	Gippsland	Yes	Yes	Yes	No	Yes	Yes	No	Yes	
P000300452	MOUNT HOTHAM ALPINE RESORT MANAGEMENT BOARD	Cobungra, Victoria, Australia	East Gippsland	Not included in analysis	Gippsland	Yes	No	No	No	No	No	No	No	
OL000024873	SOUTH GIPPSLAND SHIRE COUNCIL	275 Koonwarra-Inverloch Rd Koonwarra VIC 3954 AU	South Gippsland	6–10 years	Gippsland	Yes	Yes	Yes	No	Yes	Yes	No	Yes	

# Land use planning – new development



**Strategic alignment** with land use planning strategies.



**Potential for co-location** within or adjoining existing infrastructure – including landfills.



**Zoning and planning** is suitable for developing waste, recycling and resource recovery infrastructure (<https://mapshare.vic.gov.au/vicplan/>)



**Amenity, buffers and sensitive receptors** compatible with surrounding land use (noting new EPA guidance).

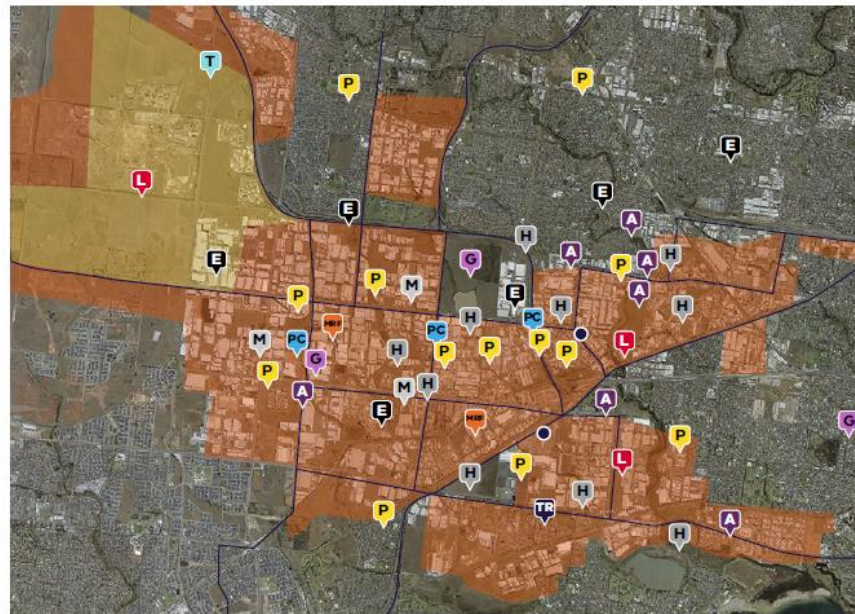


**Transport considerations** and access to suitable transport networks.



**Site size** to accommodate new infrastructure.

Map 3 Western State Significant Industrial Precinct and existing infrastructure (excl. resource recovery centres)



## Material Stream / Infrastructure Type

- |                   |                            |  |
|-------------------|----------------------------|--|
| Organics          | Textiles                   | State significant industrial land – existing |
| Paper & Cardboard | E-waste                    | State significant industrial land – future   |
| Plastics          | Material Recovery Facility | Principle freight network – road             |
| Glass             | Hazardous waste            |  |
| Tyre & Rubber     | Landfill                   |  |
| Metals            | Resource Recovery Centre   |  |
| Aggregate         |                            |  |



## Informing planning decisions relating to current infrastructure



The continued safe operation of the current infrastructure is vital to meeting current and future needs.



This can be supported by appropriate zoning of land within designated separation distances surrounding landfill sites and resource recovery sites.



VRIP supports the 'agent of change' principle being applied to existing waste, recycling, and resource recovery facilities (as it is with quarries).



In some circumstances, the Buffer Area Overlay (BAO) clause 44.0883 of the Victoria Planning Provisions can be used to prevent incompatible use and development.

The land use planning section is supported by analysis through the VRIP:

- State-wide maps show all existing infrastructure locations
- Each material stream section identifies important existing facilities
- The regional opportunities sections identify regionally important locations and facilities.

# VRIP Actions – Part 1



Focus area	Action
Taking a systemic approach to waste, recycling, and resource recovery infrastructure planning	Continue to provide information on infrastructure sites across Victoria.
	Evaluate the VRIP approach to statewide infrastructure planning to inform the next VRIP.
Addressing problematic and emerging waste streams	Work collaboratively to support innovation to manage problematic and emerging waste streams.
	Provide regularly updated information and horizon scanning on problematic and emerging waste streams.
Planning for a resilient and safe disposal of residual and hazardous waste	Work with the sector and across government on coordinated strategic planning for the efficient use of the residual waste system and supporting diversion from landfills.
	Establish a cross-agency working group to address specific residual and hazardous waste challenges and single point dependencies, including: legacy contaminated soils and other mining wastes in Loddon Mallee region category B landfill locations asbestos disposal locations across Victoria monitoring the clinical and pharmaceutical waste sector.



Focus area	Action
Improving data collection and the presentation of analysis to support investment decision making	Work with industry to improve data collection and the analysis provided to the market to inform infrastructure planning and decision making.
Integrating recycling, resource recovery and waste infrastructure into land use planning	Integrate waste, recycling and resource recovery infrastructure into State Government planning strategies and frameworks e.g., Plan Melbourne, VPA Precinct Structure Plans & the Victorian Planning Provisions.
	Develop guidance for planners and industry relating to waste, recycling, and resource recovery infrastructure.
Working collaboratively with the sector to inform planning and attract investment	Continue to work collaboratively with other jurisdictions on systemic changes that will drive stronger market certainty and demand for recycled materials and recycling infrastructure (e.g., product stewardship, government procurement).
	Establish an infrastructure working group, including LGA and industry stakeholders and regional representation, to inform infrastructure planning.
	Provide and maintain guidance materials to support sector investment e.g., investment prospectuses.
	Working collaboratively to support the Victorian community and businesses transition to a circular economy.

## Next Steps



Recycling Victoria will hold in-person information sessions that will focus on infrastructure opportunities and aspirations in each region.

Date	Location
Tuesday 29 October	Barwon region (Geelong)
Thursday 7 November	Grampians region (Ballarat)
Tuesday 12 November	Loddon Mallee region (Bendigo)
Tuesday 19 November	Hume region (Benalla)
Tuesday 26 November	Gippsland region (Morwell)
Monday 2 December	Melbourne (Lonsdale Street)

To register please go to:

<https://www.vic.gov.au/infrastructure-planning>

- In addition to these events, we would be happy to provide a briefing for your members.
- How else can we work with you and your members to strengthen infrastructure planning?