

Victorian Biosolids Regulation: Current & the future

ENVIRONMENT PROTECTION AUTHORITY



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If you remember one thing...



Source: www.stuck-in-a-rut-coaching.com



WeKnowMemes

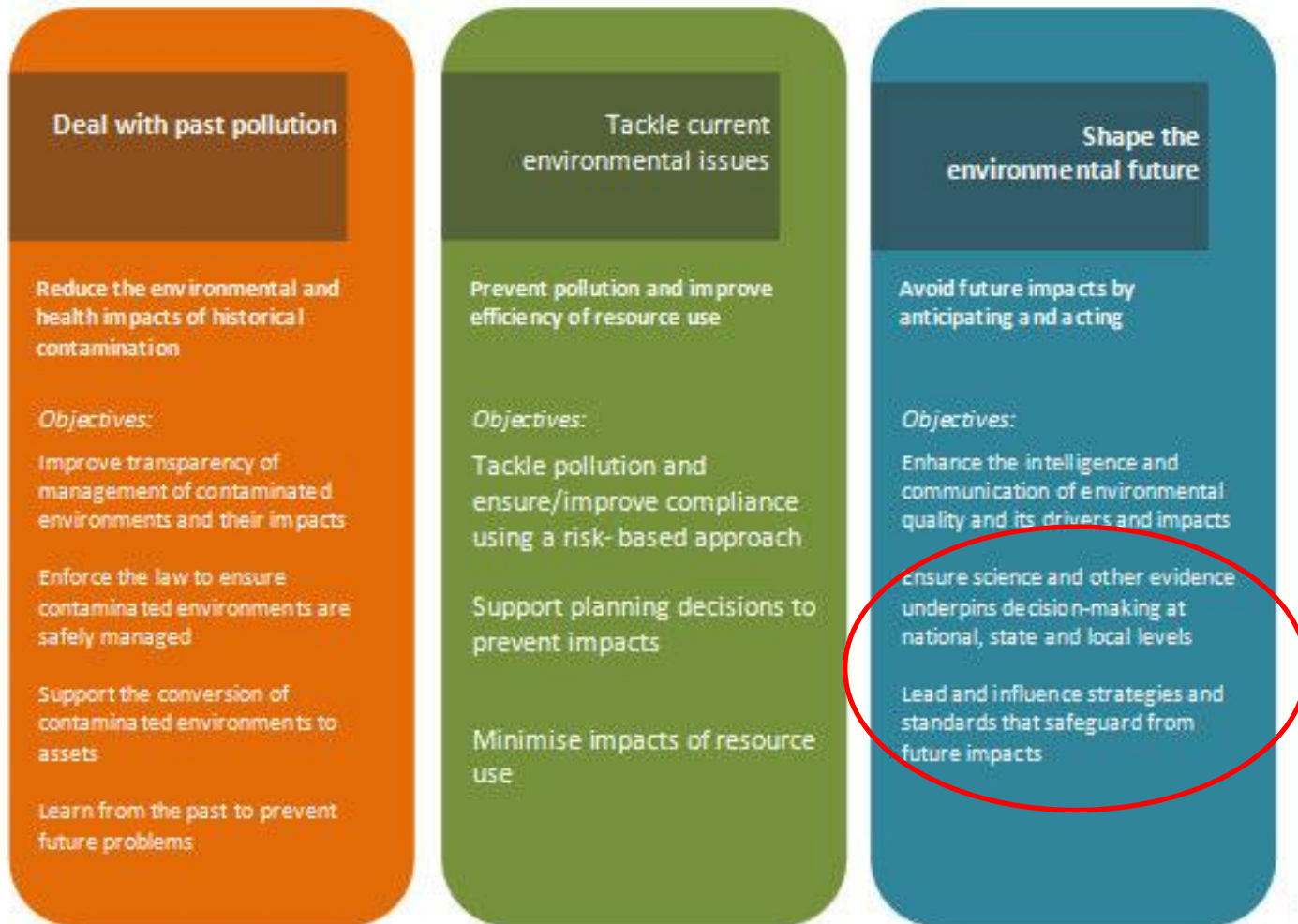
EPA at a glance

Effective Regulator

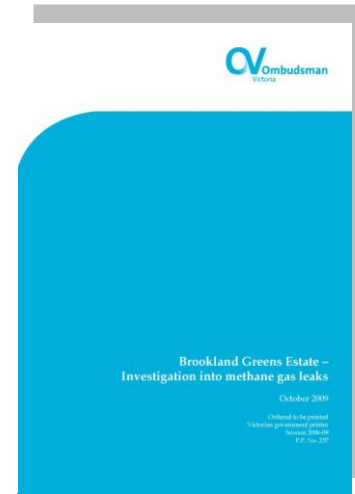


Influential Authority

EPA's priorities



Where are we up to?

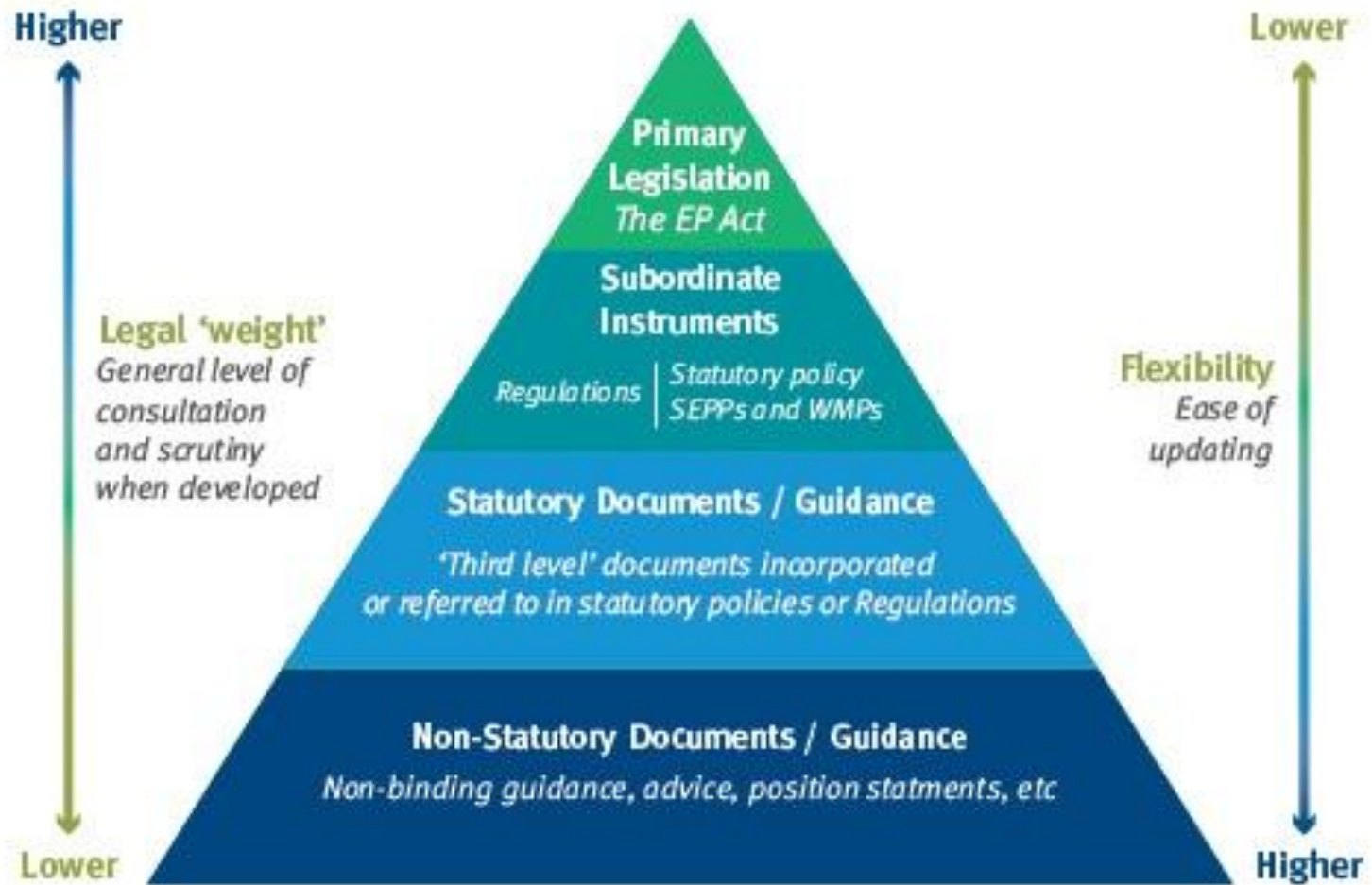


Strategic University Partnerships



Trusted knowledge-driven collaboration, strategically driving evidence-based environmental protection.

How do we regulate biosolids?



Biosolids Guidelines

Key aspects of all biosolids guidelines:

- Contaminant grade
- Treatment grade (pathogens & vectors)
- Management practices
- Reporting and monitoring

Contaminants

Table 5.1 – Biosolids contaminant grade comparison

Australia National	NSW	Vic	SA	Qld	Tas	WA	NZ	EU	USA
C1	A	C1	A	A	A	C1	a		
	B		B	B					
C2	C	C2	C	C	B	C2	b	1	A
	D			D				2	B
	E	C3		E	C	C3			

Table 5.6 - Biosolids contaminant level comparison Grade C1/A

Contaminant	NSW, Qld, ACT	National	SA	Tas	Vic	WA	NZ 'a' (after 31/12/12)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Cadmium	3	1	1	3	1	1	1
Chromium	100	100-400	1 (Cr VI)	100	400	100	600
Copper	100	100-200	100	100	100	100	100
Lead	150	150-300	-	150	300	150	300
Zinc	200	200-250	200	200	200	200	300

Source: ANZBP Regulatory Review, PSD Solutions

Treatment grade

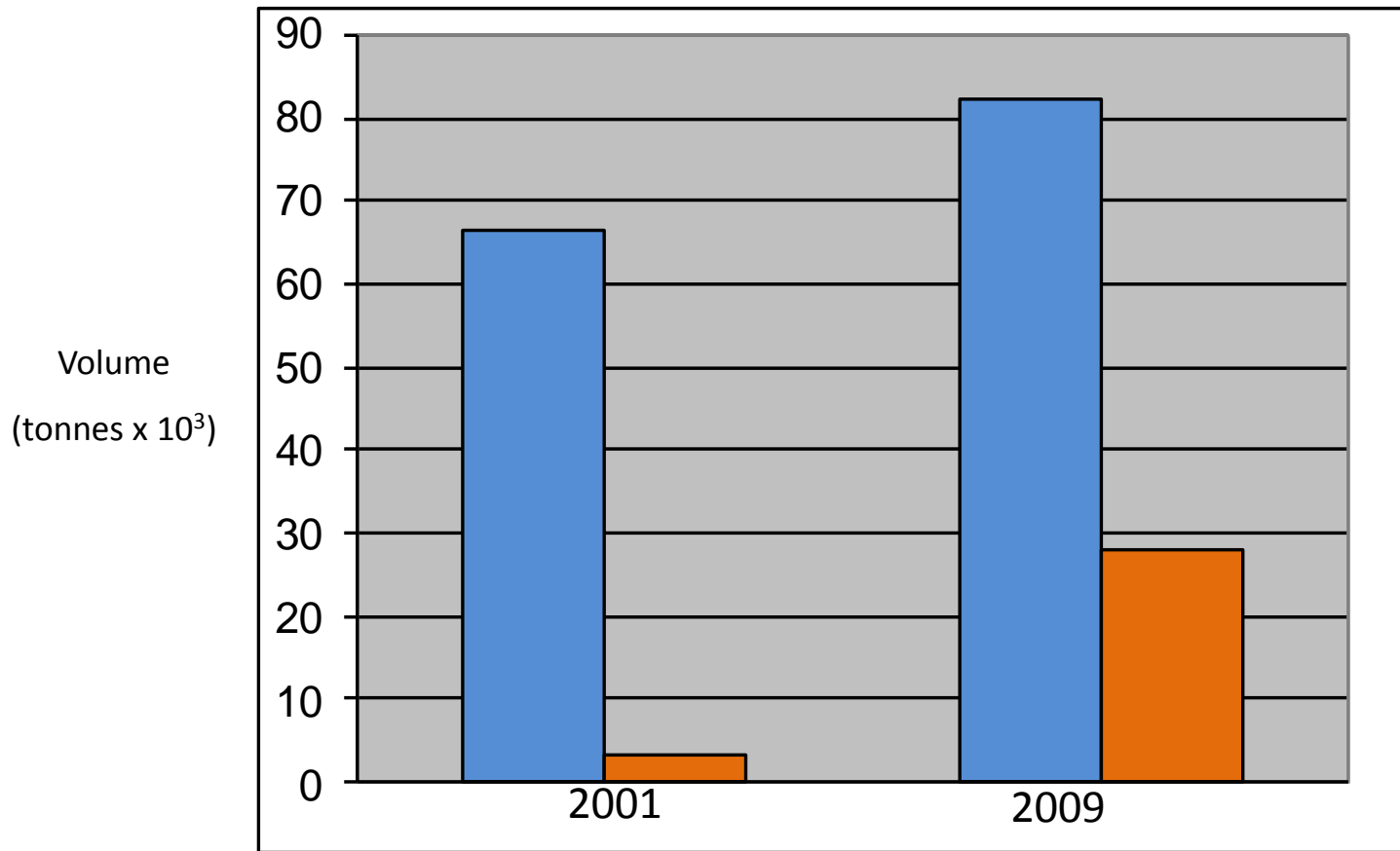
Table 5.2 – Biosolids pathogen grade comparison

Australia National	NSW	Vic	SA	Qld	Tas	WA	NZ	EU ¹	USA
P1	A	T1	A	A	A	P1	A		A
P2		T2	B			P2			
P3	B	T3		B	B	P3	B		B
P4	C			C	C	P4			

Source: ANZBP Regulatory Review, PSD Solutions

Biosolids - the past

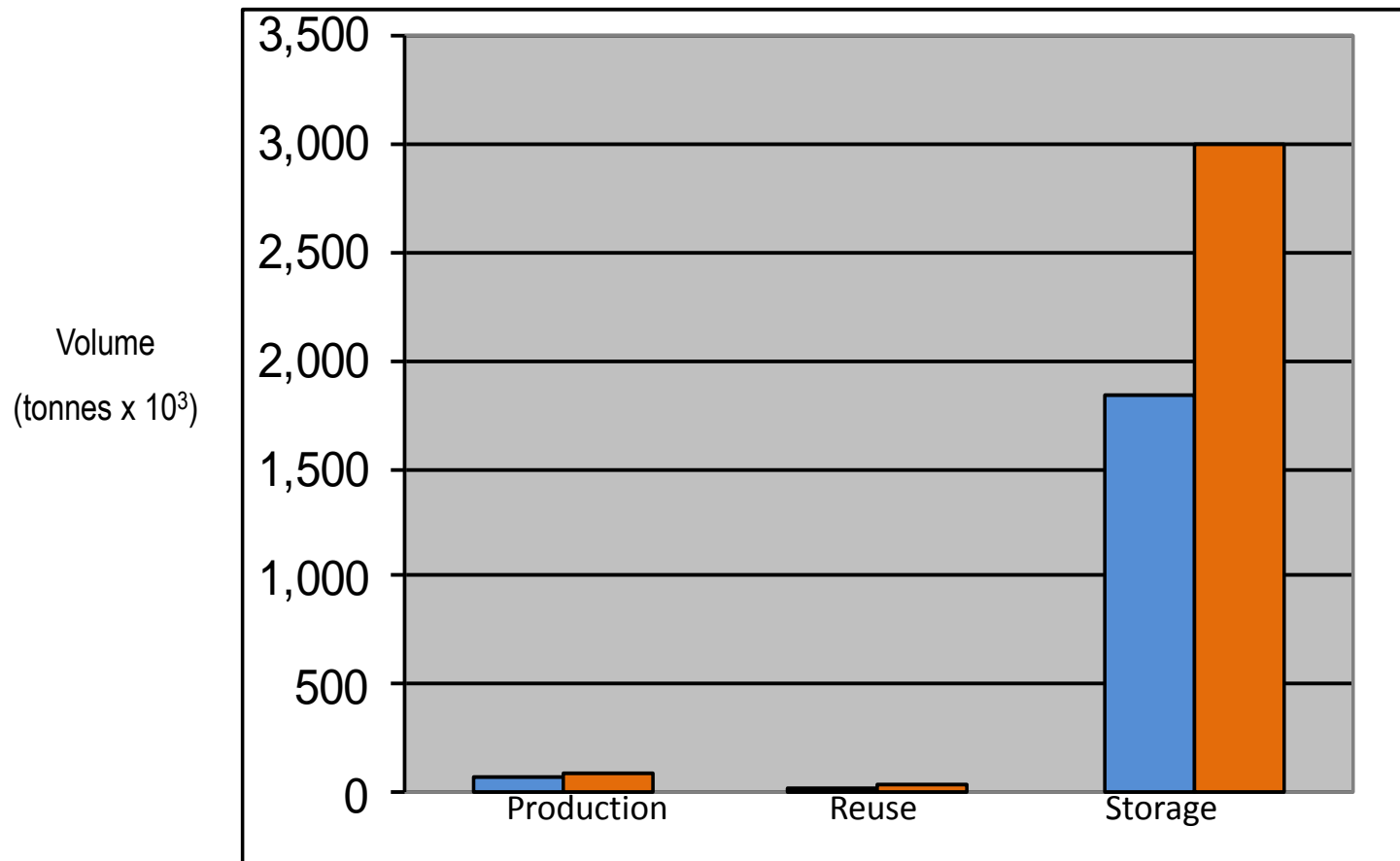
Annual **production** versus **reuse** – 2001 to 2009



Source: VicWater, July 2009

Biosolids - the storage challenge

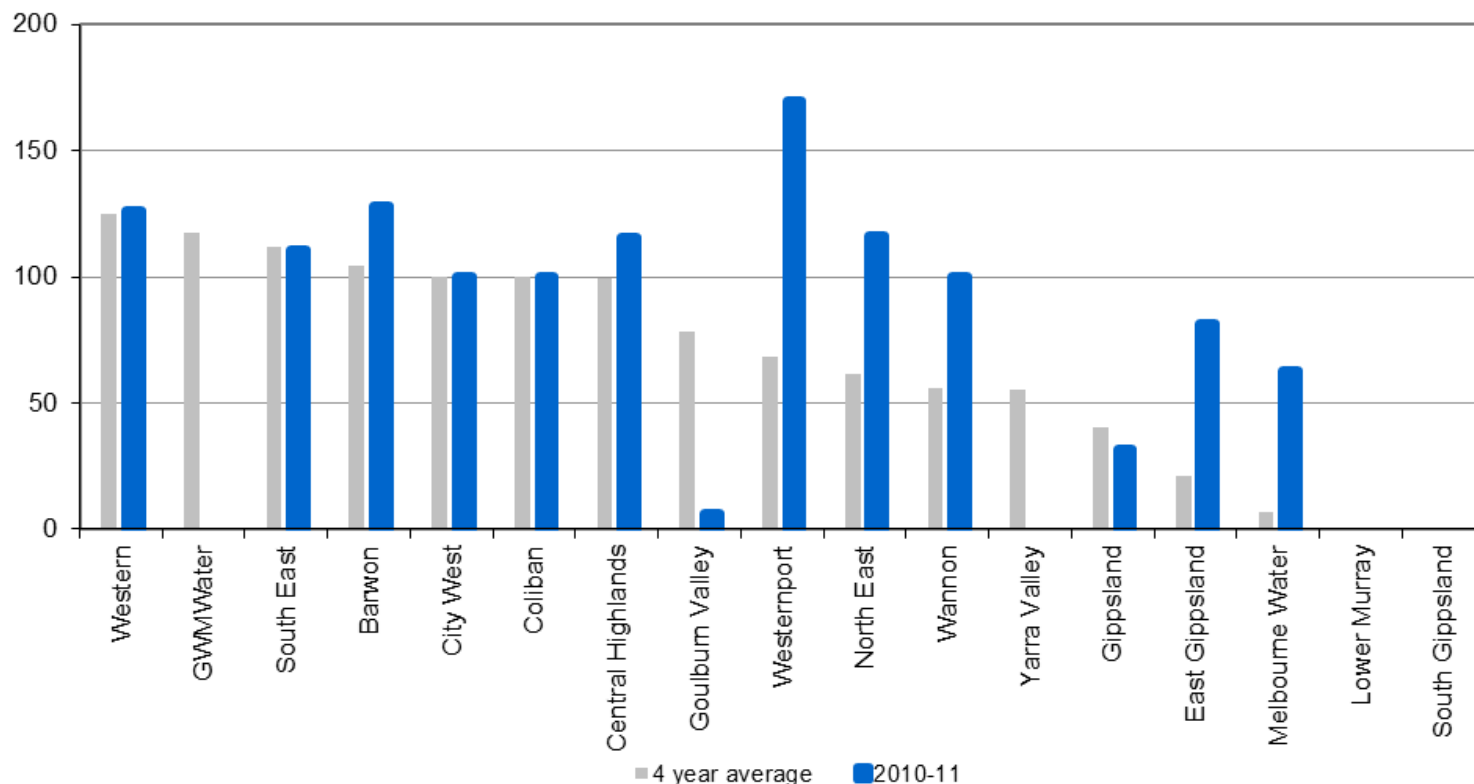
Annual production & reuse versus storage – 2001 to 2009



Source: VicWater, July 2009

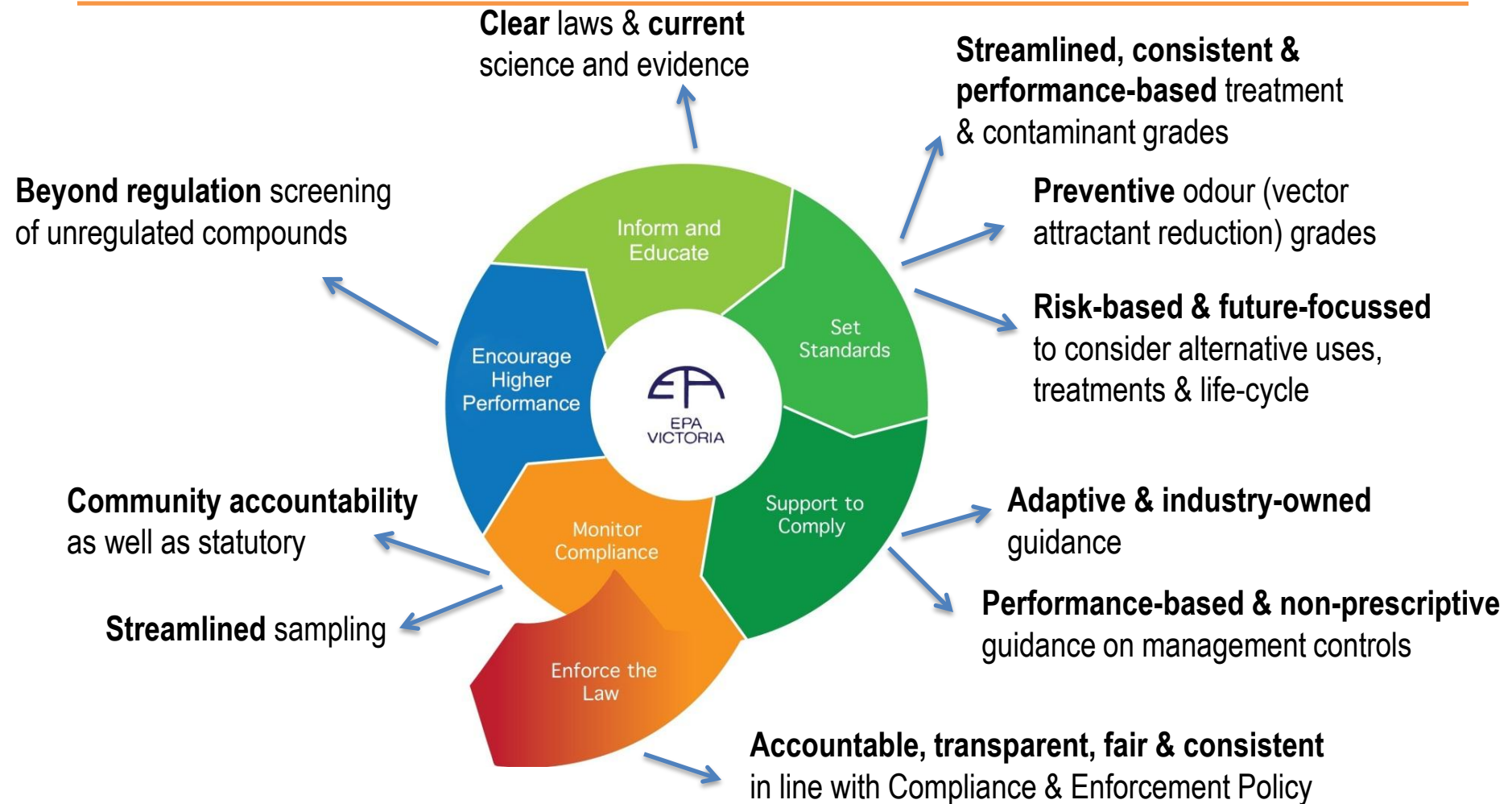
Biosolids – the current numbers

Proportion of biosolids reused in 2010-11



Source: Essential Services Commission: 2010-11 Water Performance Report

The future – ANZBP review & workshop



More info...

EPA Victoria

www.epa.vic.gov.au

Ph: 1300 EPA VIC

Australian and New Zealand Biosolids Partnership

www.biosolids.com.au

Victorian Water Industry Association - VicWater

www.vicwater.org.au

Duty calls.....

