

ANNUAL NUTRIENT SURVEY for Local Government Authorities

20 21 City of Vincent Nutrient Management Score Card

The Swan and Canning River systems, and many wetlands, are suffering from regular, and sometimes toxic, algal blooms. These blooms occur due to excessive inputs of nutrients, particularly phosphorus and nitrogen, combined with low water flows and warm temperatures. Local authorities are responsible for nutrient use and management on turfed areas and in reserves, in drainage systems and in local planning decisions and thus have the opportunity to lead the community by setting examples in best practice.

Each year Local Government Authorities (LGAs) in Perth are surveyed on their nutrient practices by the Phosphorus Awareness Project of the South East Regional Centre for Urban Landcare (SERCUL). The survey is broken up into different sections including nutrient monitoring, fertiliser applications, nutrient management, nutrient education, water quality monitoring and development control. The results from the questions asked in the survey have been used to provide a Score Card for each LGA that responded and clearly show how the LGA is performing and where and how improvements can be made. LGAs should also refer to the Annual Nutrient Survey for Local Government Authorities Results 2021 report (www.sercul.org.au/fertilisewise) for further recommendations on how to implement nutrient Best Management Practices (BMPs).

Please note that not all of the questions asked in the survey were used to determine the overall best management practice score. Any additional information about nutrient practices provided by an LGA is summarised at the end of this scorecard.



BEST MANAGEMENT PRACTICE SCORE 2021

Overall BMP: **55% AVERAGE**

The City of Vincent has been average in implementing Best Management Practices in 2020/21. Further improvements can be made in the areas of nutrient monitoring, nutrient management, water quality monitoring and development control.

RESPONSE KEY:

BMP has been achieved BMP has NOT been achieved Not Applicable Response not assessed

BEST MANAGEMENT PRACTICE (BMP) KEY:

Excelling Above Average Average Below Average Unsatisfactory

NUTRIENT MONITORING

QUESTION	RESPONSE	SECTION BMP
Are regular soil tests &/or leaf tissue analyses conducted in grassed and turf areas?	YES	AVERAGE
Is analysis conducted by a lab affiliated with ASPAC?	YES	
Is plant available phosphorus in the soil measured using an appropriate test?	NO	
Are rates of phosphorus determined by soil testing and Phosphorus Retention Index (PRI) results?	NO	

The City only conducts leaf tissue analysis of its sports fields. No other testing is undertaken. It is recommended that the City undertakes soil testing and leaf tissue analysis of all turf areas that are fertilised and moisture testing of irrigated areas. Plant available phosphorus in the soil should be measured using an appropriate test and rates of phosphorus determined by soil testing and PRI results.

FERTILISER APPLICATIONS

QUESTION	RESPONSE	SECTION BMP
Are there foreshore reserves and parks in the LGA?	YES	EXCELLING
Is fertiliser added to foreshore reserves and parks?	NO	
Does the fertiliser contain phosphorus?	N/A	
Is it a controlled release, low water soluble fertiliser?	N/A	

The City does not apply fertiliser to foreshore areas and it is recommended that this practice continue. Analysis of the amounts of fertiliser applied to active turf indicates that some fertilisers are being applied at a rate above the recommended single application rate of 40kg/ha of nitrogen. Some fertiliser is also being applied in winter on active areas and summer on passive areas. It is recommended that the City ensure that each single application of nitrogen be at or below the recommended amount and that they do not fertilise in winter or summer.

NUTRIENT MANAGEMENT

QUESTION	RESPONSE	SECTION BMP
Are structural BMPs in place to reduce nutrients entering rivers and wetlands?	NO	ABOVE AVERAGE
Are non-structural measures in place to prevent nutrients from grass clippings entering waterbodies via stormwater drains?	YES	
Are there deciduous trees in parks and streetscapes?	YES	
Are non-structural measures in place to prevent nutrients from deciduous leaves entering waterbodies via stormwater drains?	YES	
Are there non-structural measures in place to prevent nutrients from sediment entering waterbodies via stormwater drains?	YES	
Is a Nutrient and Irrigation Management Plan (NIMP) implemented for streetscapes?	NO	
Is there a policy to use local native plants as the first choice in public (LGA) and private (developers) landscaping?	YES	

It is recommended that the City have structural measures in place, such as infiltration, conveyance or detention systems, to reduce nutrients entering waterbodies. It is recommended that no further deciduous trees be planted on road verges or near waterbodies. A NIMP should also be implemented for streetscapes. It is noted that the City has an Irrigation Plan for streetscapes but not a Nutrient Plan.

WATER QUALITY MONITORING

QUESTION	RESPONSE	SECTION BMP
Are wetlands regularly monitored for nutrient levels?	NO	UNSATISFACTORY
Are stormwater drains regularly monitored for nutrient levels?	NO	
Are compensating basins regularly monitored for nutrient levels?	NO	

It is highly recommended that the City monitor wetlands, stormwater drains and compensating basins for nutrient levels and report the results to their local community. SERCULs Water Quality Monitoring Team can assist LGAs with undertaking this work and can be contacted on 9458 5664.

DEVELOPMENT CONTROL

QUESTION	RESPONSE	SECTION BMP
Are there provisions in the Town Planning Scheme or Planning Policies to enforce environmental conditions on development?	YES	BELOW AVERAGE
Do you impose conditions on development which include Nutrient and Irrigation Management Plans (NIMPs)?	NO	
Do you have mechanisms in place to regulate sediment management?	NO	

It is recommended that the City impose conditions on development which include NIMPs and have mechanisms in place to regulate sediment management (refer to main report for measures that can be implemented). Developments should be monitored for compliance and if developers are found not to be in compliance they should be prosecuted. It is noted that developers are required to supply Irrigation Plans but not Nutrient Plans.

NUTRIENT EDUCATION

QUESTION	RESPONSE	SECTION BMP
Are dog poo bins and bags provided in parks and foreshore reserves?	YES	EXCELLING
Are measures taken to educate the public about not feeding bread to waterbirds in foreshore reserves and parks?	YES	
Are ratepayers provided with advice on best practice in fertiliser management according to soil type?	YES	

It is recommended that the City continue to implement their current practices.