CLEAN OCEAN FOUNDATION

EMERGING PRIORITIES PROJECT

Interim Report National Environmental Science Program Emerging Priorities Project: National Outfalls Database

June 2021









Interim Report National Environmental Science Program Emerging Priorities Project: National Outfalls Database

Summary

Task	Status	For Completion
Microplastics and	Paper and	Review responses propose options for reporting Sep 21
emerging contaminants	Survey sent	
Inland river system	List of WTPs	Survey for WTA sent by end of June 21
outfall discharges	attained	Summarise future steps to begin collection of data Sep 21
Preliminary Review on	Current Public	Review and understand steps required to integrate into
collecting data on ocean	access to license	NOD with baseline parameters Sep 21
industrial outfalls	data identified	
Understanding recycling	Paper and	Review responses propose options for reporting Sep 21
of water by wastewater	Survey sent	
treatment plants		
Continuity of National	Complete for	Completed
Outfalls Database (NOD)	2019/2020 FY	
Standard on National	Draft of	Paper to be sent to EPAs for comment by June 21
Outfalls – Baseline	parameters	Analyse feedback and further consultation if necessary.
Standard Draft	from and report	Final draft produced Sep 21.
	card completed	

Microplastics and other emerging contaminants

Contribute to an understanding of how microplastics (and other emerging contaminants) enter the marine environment from wastewater treatment plants (WTPs). The project will conduct a national survey of water treatment authorities (WTAs) to evaluate what resources and data are currently available to study microplastics and other emerging contaminants and what options exist for future provision of data from a national perspective.

A paper reviewing the issues is published and a survey was developed and sent to all WTAs on 7/6/21. This is a progression from previous input¹.

Although the survey will close on 30thJune we have already received 7 responses from different WTAs.

For expediency, the paper and survey also included discussion of related to the other research topic, recycling of water from wastewater plants. (below).

 $Paper\ can\ be\ viewed\ here:\ \underline{\ \ }\underline{\ \ \ }\underline{\ \ }\underline{\ \ }\underline{\ \ }\underline{\ \ }\underline{\ \ }\underline{\ \ \ \ }\underline{\ \ \ }\underline{\ \ \ }\underline{\ \ \ \ }\underline{\ \ \ }\underline{\ \ \ \ }\underline{\ \ \ }\underline{\ \ \ \ }\underline{\ \ \ \ }\underline{\ \ \ \ \ }\underline{\ \ \ \ \ }\underline{\ \ \ \ }\underline{\ \ \ \ }\underline{\ \ \ \ }\underline{\ \ \ }\underline{\ \ \ }\underline{\ \ \ \ }\underline{\ \ \ \ }\underline{\ \ \ }\underline{\ \ \ \ }\underline{\ \ \ \ }\underline{\ \ \ \ }\underline{\ \ \ \ \ }\underline{\ \ \ \ }\underline{\ \ \ \ }\underline{\ \ \ \ }\underline{\ \ \ \ \ }\underline{\ \ \ \ \ }\underline{\ \ \ \ }\underline{\ \ \ \ }\underline{\ \ \ }\underline{\$

Survey can be viewed here: https://www.surveymonkey.com/r/EPP-COF

¹ p14, Gemmill et al C4 Towards a national standard and guidelines for reporting wwtp outfall data_finalhttps://www.nespmarine.edu.au/system/files/Gemmill%20et%20al%20C4%20Towards%20a%20national%20standard%20and%20guidelines%20for%20reporting%20wwtp%20outfall%20data_final.pdf

Results from the survey will be analysed as discussed in the final report.

Inland river system outfall discharges

Develop the process of understanding how inland outfalls impact on the environment. The project will continue to collect data on a trial river system; the Nepean - Hawkesbury as well as identify and survey relevant NSW water treatment authorities discharging into rivers on their capacity to supply similar data in future years. This is intended as a step towards developing the ability to collect data on key inland river system nationally.

The project has enabled an important collaboration with Dr Ian Wright and PhD student Katherine Morrison (UWS) who is investigating NSW sewage outfalls in the Southern Highlands and their impact on water and sediment quality, river invertebrates, riparian vegetation and river platypus.²

All inland WTAs in NSW have been identified (Appendix 1) and the initial survey is still being drafted. It will be sent out by the of end June to gauge their willingness and ability to supply basic parameters. These parameters will be based on data collected for coastal outfalls³ established in the NOD but adapted for riverine environments. It will also consider the variation from city-based authorities to regional authorities in terms of resources and challenges.

The survey will also include and question the cost of improving testing to include emerging contaminants and microplastics to gage local government commitments and ability to implement changes. These questions will include aims in improving water treatment effluent, reductions in traditional and emerging contaminants, as well as finding better uses for recycled water to support community needs, as these aims vary from shire to shire. For example, the budget and funding available from water treatment authorities such as Hunter Water and Sydney water will be significantly different to the Warrumbungle Shire.

A summary of its findings will be published at the end of September 21.

Preliminary review on collecting data on ocean industrial outfalls.

Consult with all relevant state and territory bodies on what data is available to by the NOD and propose a plan for future collection of this data.

It was found that each state/territory has its own licensing system with no standardisation in terms of accessibility and parameters readily available (Appendix 2).

	License On	line		Annual	Report Online	е
	Yes/No	Dollutants	Evample	Yes/No	Pollutant	Evample
	res/No	Pollutants	Example	res/No	Loads	Example
QLD	Yes	Yes	<u>Here</u>	No	No	No
<u>NT</u>	No	No	No	No	No	No
<u>WA</u>	Yes	Yes	<u>Here</u>	No	No	No
<u>SA</u>	Yes	Yes	<u>Here</u>	Yes	No	No

² https://www.cleanocean.org/news/clean-ocean-foundation-goes-upriver

³ Table 3, p8. Gemmill et al C4 Towards a national standard and guidelines for reporting wwtp outfall data_finalhttps://www.nespmarine.edu.au/system/files/Gemmill%20et%20al%20C4%20Towards%20aw20national%20standard%20and%20guidelines%20for%20reporting%20wwtp%20outfall%20data_final.pdf

VIC	Annual	Annual	Annual	Yes	Yes	<u>Here</u>
<u>TAS</u>	No (Mapped)	ID # only*	No	No	No	No
NSW	N/A	N/A	N/A	N/A	N/A	N/A

^{*} ID # only - License number on map, no link to license etc.

Tasmania has a site mapped which makes identification of coastal discharges easier, but there is no online register of licenses. With the exception of Tasmania and Northern Territory, all have some form of online search function and types of waste discharges could be identified by using existing search functions (e.g.: process or industry) and cross referencing with licenses. NSW data was not accessed as the links on the website appear not functional at this time and Victoria's will have a significant upgrade that will be available on the 1st July 21.

Yearly pollutant loads appear in most licenses accessed. Victoria's EPA is the only authority publishing "Annual Performance Statements" in which average values of pollutants and volumes along with compliance/noncompliance issues are included.

Licenses or reports if accessible were in PDF form.

The project will now enquire from each authority:

If not already, when are licenses are intended to be made available online? If not in the near term, what processes can be undertaken to access these licenses with discharge parameters specified?

If not available online already, are annual reports detailing pollutant loads available?

Can the discharge point be reliably located and be mapped?

Once these issues uncertainties are resolved an accurate a plan can be made to establish a trial NOD for industrial outfalls. This will be completed by September 21.

Understanding recycling of water by wastewater treatment plants.

The project will survey all WTAs as to how they classify, calculate and report on water recycled from their wastewater treatment processes. This will provide a basis for developing benchmarks in future years related to reporting of the of wastewater recycling.

(See comments for Microplastics and other emerging contaminants above)

Continuity of National Outfall Database (NOD)

Provide continuity of the NOD by collecting outfall data for 2019 -2020 in similar format to previous years and releasing to decision makers and other end users.

The purpose of this milestone is to continue the NOD by collecting outfall data for 2019/2020 financial year in similar format as previous years.

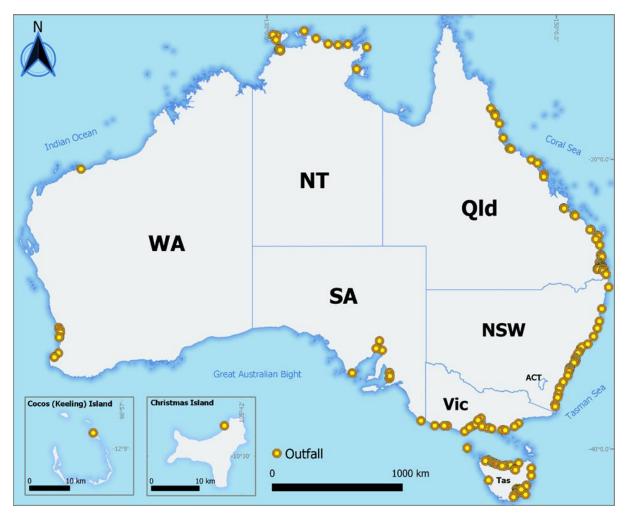
Table 1. Gantt chart of NOD data collection for 2019/2020 financial year.

Year 2020	2021
-----------	------

Month	December	January	February	March	April	May	June
Data collection							
Analysis							
Report							

The outcome report provides an analysis of the Australian coastal outfalls and ranks them according to the total flow volume and nutrients load to prioritise the potential degree of impact of each source to the environment and human health. Water quality data were collected from 43 Water Treatment Authorities (WTAs) around Australia (Figure 1) by either downloading the water quality data reports directly from WTA websites or by formally requesting the data through email.

Figure 1. The location of 185 wastewater discharge points managed by 43 water treatment authorities around Australia.



The pollutant contribution index, based on nitrogen and phosphorous loads, was calculated for each outfall. Nitrogen and phosphorous loads were calculated according to the Load Calculation Protocol of New South Wales Department of Environment and Climate Change. Outfalls were ordered from lowest to highest index value to rank them according to their

relative pollutant contribution to the coastal and marine environment. The index is based on a total nutrient load discharge using the variables of flow, nitrogen and phosphorous (Appendix 2).

In general, the outfalls contributing higher nitrogen and phosphorous loads vary more than those delivering lower loads. There may be many reasons for this, but it could be related to the capacities of the treatment plants and storm water management in urban areas, resulting in increased in discharge at metropolitan outfall sites. There are some exceptions to this pattern with rural/regional sites contributing higher nutrient loads than urban areas. The reasons for them may vary, however, they may primarily be due to the conditions set out in their licenses. This ranking of nutrient loads from Australian outfalls by site at a national scale can therefore be useful in prioritizing treatment upgrade resources to manage biodiversity impacts and human health concerns.

Standard on National Outfalls Database Reporting - Baseline Standard Draft

Continue development of standards related outfall reporting (note: a milestone but not described in Project Plan).

The project progresses the findings from NODs⁴ previous work that sought input from WTAs on a proposed standard for outfall reporting (REF-Similar to Microplastics etc). A modified list of parameters to report on and a proposed report card concept is in Appendix 3.

By the end of June 21, the NOD will send these new proposals to regulatory authorities in each state and territory and consult with them to further refine the standards. Results will be discussed in the final report Sep 21.

⁴ Gemmill et al C4 Towards a national standard and guidelines for reporting wwtp outfall data_final|https://www.nespmarine.edu.au/system/files/Gemmill%20et%20al%20C4%20Towards%20a%20national%20standard%20and%20guidelines%20for%20reporting%20wwtp%20outfall%20data_final.pdf

Appendix 1

NSW Riverine wastewater treatment plants.

Albury City Council	Hume Weir Village Syster	127	Albury City Council	Frank Zaknich	02 6023 8111	info@alburycity.nsw.gov.au
	Kremur Street Treatment		Albury City Council	Frank Zaknich	02 6023 8111	into@aiburycity.nsw.gov.au
	Lara Lakes System	FIGIT	Albury City Council			
	Waterview Treatment Pla	ınt	Albury City Council			
	Armidale Dumaresq Cou		Armidale Regional Coun	lames Roncon	1300 136 833	council@armidale.nsw.gov.au
-	Guyra Sewage Treatment		Armidale Regional Coun	•	1300 130 033	councile armidale.nsw.gov.da
-	Alstonville Wastewater T		Ballina Shire Council	Paul Hickey	6686 4444	council@ballina.nsw.gov.au
	Ballina Wastewater Treat		Ballina Shire Council	rudiffickcy	0000 4444	councile balling.iisw.gov.au
	Lennox Head Wastewate		Ballina Shire Council			
	Wardell Wastewater Trea		Ballina Shire Council			
	Bathurst Sewage Treatme		Bathurst Regional Coun	David Sherley	(02) 6333 6111	council@bathurst.nsw.gov.au
	Bega Sewage Treatment I		Bega Valley Shire Counc			council@begavalley.nsw.gov.au
-	Bermagui Sewage Treatm		Bega Valley Shire Counc		(02) 0 133 2222	sourience begavane jinswigovida
	Eden Sewage Treatment		Bega Valley Shire Counc			
- '	Merimula Sewage Treatm		Bega Valley Shire Counc			
-	Tathra Sewage Treatmen		Bega Valley Shire Counc			
-	Tura Beach Sewage Treat		Bega Valley Shire Counc			
-	Bellingen Wastewater Tre		Bellingen Shire Council		02 6655 7315	council@bellingen.nsw.gov.au
	Dorrigo Wastewater Trea		Bellingen Shire Council			
_	Urunga Wastewater Trea		Bellingen Shire Council			
-	Bland Shire Sewage Treat		Bland Shire Council	Ray Smith	02 6972 2266	council@blandshire.nsw.gov.au
	Blayney Sewage Treatme		Blayney Shire Council	Glen Wilcox	(02) 6368 2104	council@blayney.nsw.gov.au
•	Nyngan Sewage Treatme		Bogan Shire Council	Derek Francis		admin@bogan.nsw.gov.au
-	Bourke Sewage Treatmer		Bourke Shre Council	Leonie Brown/M		bourkeshire@bourke.nsw.gov.au
	Brewarrina Sewage Treat		Brewarrina Shire Counc			breshire@brewawrrina.nsw.gov.au
	Bangalow Sewage Treatm		Byron Shire Council	Ken Gainger	02 6626 7000	council@byron.nsw.gov.au
	Bruswick Valley STP		Byron Shire Council			
·	Byron Bay Sewage Treatn		Byron Shire Council			
	Ocean Shores***		Byron Shire Council			
Cabonne Council	Canowindra Sewage Trea	1750	Cabonne Council	Brad Byrnes	(02) 6392 3200	council@cabonne.nsw.gov.au
	Molong Sewage Treatme		Cabonne Council	,	, , , , , , , , , , , , , , , , , , , ,	
	Glenfield Sewage Treatm	372	Campbelltown Council	Lindy Deitz	(02) 4645 4000	council@campbelltown.nsw.gov.au
	Mooney Mooney Sewage		Central Coast Council	David Farmer		ask@centralcoast.nsw.gov.au
	Bataeu Bay Sewage Treat		Central Coast Council			•
	Charmhaven STP	2647	Central Coast Council			
	Gwandalan STP		Central Coast Council			
	Kincumber STP		Central Coast Council			
Central Coast Council	Mannering Park STP	2647	Central Coast Council			
	Toukley STP		Central Coast Council			
	Woy Woy STP	1802	Central Coast Council			
Central Coast Council	Wyong South	2647	Central Coast Council			
	Perisher Valley Sewage Ti	1591	Charlotte Pass Snow Res	Lachlan Maclean	02 6457 1555	ski@charlottespass.com.au
	Lithgow Sewage Treatme	236	City of Lithgow Council	Craig Butler	(02) 6354 9999	council@lithgow.nsw.gov.au
City of Lithgow Council	Portland Sewage Treatme	597	City of Lithgow Council			
	Wallerawant Sewage Tre		City of Lithgow Council			
Clarence Valley Council	Clarenza Sewage Treatme	2760	Clarence Valley Council	Ashley Lindsay	02 6643 0200	council@clarence.nsw.gov.au
	Coutts Crossing STP		Clarence Valley Council			
Clarence Valley Council	Iluka Sewage Treatment I	20323	Clarence Valley Council			
Clarence Valley Council	North Grafton Sewage Tr	717	Clarence Valley Council			
Clarence Valley Council	Woodford Island Sewage	13195	Clarence Valley Council			
Clarence Valley Council	Yamba Sewage Treatmen	1659	Clarence Valley Council			
Cobar Shire Council	Cobar Sewage Treatment	4324	Cobar Shire Council	Peter Vlatko	(02) 6836 5809	peter.vlatko@cobar.nsw.gov.au
	Coff Harbour Sewage Tre		Coffs Harbour City Cour	Steve McGrath	02 6648 4102	coffs.council@chcc.nsw.gov.au
	Corindi Sewage Treatmer		Coffs Harbour City Cour	•		
	Moonee Sewage Treatme	573	Coffs Harbour City Cour	ncil		
	Woolgoolga Sewage Trea		Coffs Harbour City Cour			
	Gulargambone Sewage T	350	Coonamble Shire Counc	Hein Basson	02 6827 1900	council@coonambleshire.nsw.gov.au
	Coonamble Sewage Treat		Coonamble Shire Counc			
Cootamundra-Gundagai Regiona	Cootamundra Sewage Tr	1603	Cootamundra-Gundaga	Phil McMurray	1300 459 689	mail@cgrc.nsw.gov.au
Cootamundra-Gundagai Regiona			Cootamundra-Gundaga			
					02 6340	
Cowra Shire Council	Cowra Sewage Treatmen	3648	Cowra Shire Council	Paul Devery	2000	council@cowra.nsw.gov.au
	Wyangala Sewage Treatn	20972	Cowra Shire Council			
Cowra Shire Council	,o ocage meath		Department of Planning	Jim Betts	1300 305 695	ONLINE ENQUIRY
Cowra Shire Council Department of Planning Industry		10074	Department of Flamming			
	Hill End Sewage Treatme		Department of Planning	Industry and Env	ironment	
Department of Planning Industry	Hill End Sewage Treatme Kosiuszko Sewage Treatm	447	<u> </u>			
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Appendix 1 (con.)

Federation Council	Corowa Sewage Treatme	835	Federation Council	Adrian Butler	(02) 6033 8999	council@federationcouncil.nsw.gov.au
Federation Council	Howlong Sewage Treatm	21287	Federation Council			
Federation Council	Mulwala Sewage Treatme	814	Federation Council			
Forbes Shire Council	Forbes Sewage Treatmen	4809	Forbes Shire Council	Rodger Bailey	(02) 6850	Forbes@forbes.nsw.gov.au
Gilgandra Shire Council	Gilgandra Sewage Treatm	4640	Gilgandra Shire Council	David Neeves	(02) 6817 8800	council@gilgandra.nsw.gov.au
Glen Innes Severn Council	Glenn Innes Sewage Trea		Glen Innes Severn Coun			council@gisc.nsw.gov.au
Goulburn Mulwaree Council	Goulburn Sewage Treatm		Goulburn Mulwaree Co	-		council@goulburn.nsw.gov.au
Greater Hume Shire Council	Calcairn Sewage Treatme		Greater Hume Shire Cou		02 6036 0100	mail@greaterhume.nsw.gov.au
			Greater Hume Shire Cou		02 0030 0100	man@greatername.nsw.gov.au
Greater Hume Shire Council	Henty Sewage Treatment					
Greater Hume Shire Council	Holbrook Sewage Treatm		Greater Hume Shire Cou			
Greater Hume Shire Council	Walla Walla Sewage Trea		Greater Hume Shire Cou			
Griffith City Council	Griffith Sewage System		Griffith City Council	Brett Stonestreet	<u>1300 176 077</u>	admin@griffith.nsw.gov.au
Griffith City Council	Yenda Sewerage System		Griffith City Council			
Gunnedah Shire Council	Gunnedah Sewage Treati	831	Gunnedah Shire Counci	Eric Groth	02 6740 2115	ericgroth@infogunnedah.com.au
Gwydir Shire Council	Bingara Sewerage Treatm	586	Gwydir Shire Council	Max Eastcott	02 6724 2000	mail@gwydir.nsw.gov.au
Gwydir Shire Council	Warialda Sewerage Treat	584	Gwydir Shire Council			
Hawkesbury City Council	McGraths Hill Sewage Tre	1684	Hawkesbury City Counc	Elizabeth Richard	(02) 4560 4444	council@hawkesbury.nsw.gov.au
Hawkesbury City Council	South Windsor		Hawkesbury City Counc			
Hay Shire Council	Hay Sewage Treatment P		Hay Shire Council	David Webb	(02) 6990 1100	mail@hay.nsw.gov.au
Hilltops Council	Murrumburrah Sewage T		Hilltops Council	Anthony O'Reilly		anthony.o'reilly@hilltop.nsw.gov.au
Hilltops Council	Boorowa Sewage Treatm		Hilltops Council	Antinony o Kemy	0420 000 430	antinony.o remy@mitop.nsw.gov.uu
Hilltops Council	Young Sewagee Treatmen		Hilltops Council	Dannan Classic	1200 657 657	
City of Lake Maquarie	Belmont Wastewater Tre		Hunter Water	Darren Cleary	1300 657 657	enquires@hunterwater.com.au
Port Stevens Council	Boulder Bay Wastewater		Hunter Water			
City of Cessnock	Branxton Wastewater Tre		Hunter Water			
City of Newcastle	Burwood Beach Wastewa	1683	Hunter Water			
City of Cessnock	Cessnock Wastewater Tre	227	Hunter Water			
Dungog Shire Council	Clarence Town Wastewa	13250	Hunter Water			
City of Lake Maquarie	Dora Creek Wastewater	1771	Hunter Water			
Dungog Shire Council	Dungong Wastewater Tre	4197	Hunter Water			
City of Lake Maguarie	Edgeworth Wastewater T	1771	Hunter Water			
Port Stevens Council	Farley Wastewater Treati		Hunter Water			
City of Maitland	Karuah Wastewater Treat		Hunter Water			
•			Hunter Water			
City of Cessnock	Kearsley Wastewater Tre					
Cessnock City Council	Kurri Kurri Wastewater T		Hunter Water			
City of Maitland	Morpeth Wastewater Tre		Hunter Water			
Cessnock City Council	Paxton Wastewater Treat	3755	Hunter Water			
'	_					
Port Stevens Council	Raymond Terrace Waster	217	Hunter Water			
'	_		Hunter Water Hunter Water			
Port Stevens Council	Raymond Terrace Waster	1683				
Port Stevens Council City of Newcastle Port Stevens Council	Raymond Terrace Waster Shortland Wastewater Tr	1683 4435	Hunter Water			
Port Stevens Council City of Newcastle Port Stevens Council City of Lake Maquarie	Raymond Terrace Wastev Shortland Wastewater Tr Taniba Bay Wastewater T Toronto Wastewater Tre	1683 4435 1771	Hunter Water Hunter Water Hunter Water	Paul Henry	(02) 6728 8288	council@inverell.nsw.gov.au
Port Stevens Council City of Newcastle Port Stevens Council City of Lake Maquarie Inverell Shire Council	Raymond Terrace Waste Shortland Wastewater Tr Taniba Bay Wastewater T Toronto Wastewater Tre Ashford Sewage Treatme	1683 4435 1771 580	Hunter Water Hunter Water Hunter Water Inverell Shire Council	Paul Henry	(02) 6728 8288	council@inverell.nsw.gov.au
Port Stevens Council City of Newcastle Port Stevens Council City of Lake Maquarie Inverell Shire Council Inverell Shire Council	Raymond Terrace Waste Shortland Wastewater Tr Taniba Bay Wastewater T Toronto Wastewater Tre Ashford Sewage Treatme Delungra Sewage Treatm	1683 4435 1771 580 4114	Hunter Water Hunter Water Hunter Water Inverell Shire Council Inverell Shire Council	Paul Henry	(02) 6728 8288	council@inverell.nsw.gov.au
Port Stevens Council City of Newcastle Port Stevens Council City of Lake Maquarie Inverell Shire Council Inverell Shire Council Inverell Shire Council	Raymond Terrace Waste Shortland Wastewater Tr Taniba Bay Wastewater T Toronto Wastewater Tre Ashford Sewage Treatme Delungra Sewage Treatm Inverell Sewage Treatme	1683 4435 1771 580 4114 718	Hunter Water Hunter Water Hunter Water Inverell Shire Council Inverell Shire Council			
Port Stevens Council City of Newcastle Port Stevens Council City of Lake Maquarie Inverell Shire Council Inverell Shire Council Inverell Shire Council Jenolan Caves Reserve Trust	Raymond Terrace Waste Shortland Wastewater Tr Taniba Bay Wastewater T Toronto Wastewater Tr Ashford Sewage Treatme Delungra Sewage Treatme Inverell Sewage Treatme Jenolan Caves Sewage Tr	1683 4435 1771 580 4114 718 1962	Hunter Water Hunter Water Hunter Water Inverell Shire Council Inverell Shire Council Inverell Shire Council Jenolan Caves Reserve 1	Peter Austen	1300 76 3311	reception@jenolancave.org.au
Port Stevens Council City of Newcastle Port Stevens Council City of Lake Maquarie Inverell Shire Council Inverell Shire Council Inverell Shire Council Jenolan Caves Reserve Trust Junee Shire Council	Raymond Terrace Waste Shortland Wastewater Tr Taniba Bay Wastewater T Toronto Wastewater Treath Ashford Sewage Treatme Delungra Sewage Treatme Inverell Sewage Treatme Jenolan Caves Sewage Tr Junee Wastewater Treat	1683 4435 1771 580 4114 718 1962 752	Hunter Water Hunter Water Hunter Water Inverell Shire Council Inverell Shire Council Jenolan Caves Reserve T Junee Shire Council	Peter Austen James Davis	1300 76 3311 02 6924 8180	reception@jenolancave.org.au custmerserviceteam@junee.nsw.gov.a
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Appendix 1 (con.)

MidCoast County Council	Blahdelah Sewage Treatn		MidCoast County Counc		02 7955 7777	council@midcoast.nsw.gov.au
MidCoast County Council	Coopernook Sewage Trea		MidCoast County Counci			
MidCoast County Council	Dawson Sewage Treatme		MidCoast County Counci			
MidCoast County Council	Forster Sewage Treatmer		MidCoast County Counci			
MidCoast County Council	Gloucester Sewage Treat		MidCoast County Counci			
MidCoast County Council	Hallidays Point Sewage T		MidCoast County Counci			
MidCoast County Council	Harrington Sewage Treat		MidCoast County Counci			
MidCoast County Council	Hawks Nest Sewage Trea		MidCoast County Counci			
MidCoast County Council	Lasdowne Sewage Treatn		MidCoast County Counci			
MidCoast County Council	Old Bar Sewage Treatme		MidCoast County Counci			
MidCoast County Council	Stroud Sewage Treatmen		MidCoast County Counci			
MidCoast County Council	Wingham Sewage Treatm		MidCoast County Counci			
Mid-Western Regional Council	Gulgong Sewage Treatme		Mid-Western Regional C		1300 765 002	council@midwestern.nsw.gov.au
Mid-Western Regional Council	Kandos Sewage Treatmer		Mid-Western Regional Co			
Mid-Western Regional Council	Mudgee Sewage Treatme		Mid-Western Regional Co			
Mid-Western Regional Council	Rylstone Sewage Treatme		Mid-Western Regional Co			
Moree Plains Shire Council	Moree Sewage Treatmen		Moree Plains Shire Cour		02 6753 2389	councilmpsc.nsw.gov.au
Murray River Council	Moama Sewer Treatmen		•	Terry Dodds	1300 087 004	admin@murrayriver.nsw.gov.au
Murrumbidgee Council	Darling Point Sewage Tre		-	John Scarce	1300 676 243	mail@murrumbidgee.nsw.gov.au
Murrumbidgee Council	Jerilderie Sewage treatme		Murrumbdgee Council			
Muswellbrook Shire Council	Deman Sewage Treatmer		Muswellbrook Shire Cou		02 6549 3700	council@muswellbrook.nsw.gov.au
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Nambucca Valley Council	Bowraville Sewage Treatr		Nambucca Valley Counc		02 6568 2555	council@nambucca.nsw.gov.au
Nambucca Valley Council	Macksville Sewage Treatr		Nambucca Valley Council			
Nambucca Valley Council	Nambucca Sewage Treatr		Nambucca Valley Council			
Nambucca Valley Council	Scotts Head Sewage Trea		Nambucca Valley Council		0.0700	10 1:
Narrabri Shire Council	Narrabri Sewage Treatme			Stewart Todd	0 6799 6866	council@narrabri.nsw.gov.au
Narrandera Shire Council	Narrandera Sewage Trea		Narrandera Shire Cound		02 6959 2700	council@narrandera.nsw.gov.au
Narromine Shire Council	Narromine Sewage Treat		Narromine Shire Counci		02 6889 9999	mail@narromine.nsw.gov.au
NSW Crown Holiday Parks Trust			NSW Crown Holiday Par			ONLINE ENQUIRY
Oberon Council	Oberon Sewage Treatme			Gary Wallace	02 6329 8100	council@oberon.nsw.gov.au
Orange City Council	Orange Sewage Treatmer			David Waddell	02 6393 8000	council@orange.nsw.gov.au
Orange City Council	Spring Hill Sewage Treatn		Orange City Council			
Parkes Shire Council	Parkes Sewage Treatmen	5655	Parkes Shire Council	Kent Boyd	02 68612333	council@parkes.nsw.gov.au
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Appendix 1 (con.)

City of Mallanana	Delle meh:	1775	Cuda cu Mator	Back Charaum	12 20 02	ONLINE ENOUGH
City of Wollongong The Council of the Municipality of	Bellambi		Sydney Water Sydney Water	Roch Cheroux	13 20 92	ONLINE ENQUIRY
Waverly Council	Bondi Sewage Treatment		Sydney Water	Roch Cheroux		
Hornsby Shire Council	Brooklyn		Sydney Water	Roch Cheroux		
Hills Shire Council	Castle Hill		Sydney Water	noon oneroux		
Sutherland Shire Council	Cronulla		Sydney Water	Roch Cheroux		
Fairfield City Council	Fairfield Sewage Treatme		Sydney Water	Roch Cheroux		
Hornsby Shire Council	Hornsby Heights		Sydney Water	Roch Cheroux		
City of Randwick	Malabar		Sydney Water	Roch Cheroux		
Northern Beaches Council	North Head		Sydney Water	Roch Cheroux		
Hawkesbury City Council	North Richmond		Sydney Water	Roch Cheroux		
City of Penrith	Penrith Sewage Treatmer	1409	Sydney Water			
Wollondilly Shire Council	Picton	10555	Sydney Water			
City of Wollongong	Port Kembla	218	Sydney Water	Roch Cheroux		
City of Blacktown	Quakers Hill	1724	Sydney Water			
City of Blacktown	Riverstone	1796	Sydney Water	Roch Cheroux		
Hills Shire Council	Rousehill	4965	Sydney Water	Roch Cheroux		
City of Shellharbour	Shellharbour	211	Sydney Water	Roch Cheroux		
City of Penrith	St Mary's Advanced Wate	1729	Sydney Water	Roch Cheroux		
City of Penrith; Liverpool City Co	Wallacia	12235	Sydney Water	Roch Cheroux		
Northern Beaches Council	Warriewood	1784	Sydney Water	Roch Cheroux		
Campbelltown Council	West Camden	1675	Sydney Water	Roch Cheroux		
Hornsby Shire Council	West Hornsby	1695	Sydney Water	Roch Cheroux		
Blue Mountains City Council	Winmalee		Sydney Water	Roch Cheroux		
Tamworth Regional Council	Barraba Sewage Treatme	604	Tamworth Regional Cou	Paul Bennett	(02) 6767 5555	trc@tamworth.nsw.gov.au
Tamworth Regional Council	Manilla Sewage Treatme		Tamworth Regional Cou			
Tamworth Regional Council	Tamworth Sewage Treatr	1600	Tamworth Regional Cou	ıncil		
Tamworth Regional Council	Tamworth Sewge Treatm	1600	Tamworth Regional Cou	ncil		
Temora Shire Council	Temora Sewage Treatme	2523	Temora Shire Council	Gary Levelle	428216057	glavelle@temora.nsw.gov.au
Tenterfield Shire Council	Urbenville Sewage Treatr	4306	Tenterfield Shire Counci	Kylie Smith	02 6736 6000	council@tenterfield.nsw.gov.au
Tenterfield Shire Council	Tenterfield Sewage Treat	4305	Tenterfield Shire Counci	l .		
Tweed Shire Council	Banora Point Wastewater			Troy Green	02 6670 2400	tsc@tweed.nsw.gov.au
Tweed Shire Council	Hastings Point Wastewat	3618	Tweed Shire Council			
Tweed Shire Council	Kingscliff Wastewater Tre	atment Pl	Tweed Shire Council			
Tweed Shire Council	Mooball Wastewater Tre	20172	Tweed Shire Council			
Tweed Shire Council			Tweed Shire Council			
Tweed Shire Council			Tweed Shire Council			
Tweed Shire Council			Tweed Shire Council			
Tweed Shire Council	Murwillumbah Wastewa		Tweed Shire Council			
Upper Hunter Shire Council	Aberdeen Sewage Treatn		Upper Hunter Shire Cou		02 6540 1100	council@upperhunter.nsw.edu.au
Upper Hunter Shire Council	Merriwa Sewage Treatme		Upper Hunter Shire Cou		02 6540 1100	
Upper Hunter Shire Council	Scone Sewage Treatment		Upper Hunter Shire Cou		02 6540 1100	
Upper Lachlan Shire Council	Crookwell Sewage Treatn		Upper Lachlan Shire Cou			council@upperlachlan.nsw.gov.au
Upper Lachlan Shire Council	Gunning Sewage Treatme		Upper Lachlan Shire Cou		(02) 4830 1000	
Uralla Shire Council	Uralla Sewage Treatment		Uralla Shire Council	Kate Jessup	(02) 6778 6300	council@uralla.nsw.gov.edu.au
Veolia Water Australia PTY LTD	Gerroa STP		Veolia Water Australia F			
Veolia Water Solutions and Tech			Veolia Water Solutions a		(00) 5005 0404	ONLINE ENQUIRY
Wagga Wagga City Council	Bomen Industrial Pre-tre				(02) 6926 9121	council@wagga.nsw.gov.au
Wagga Wagga City Council	Forest Hill Sewage Treatm					
Walsha Council	Narrung Street Sewage Ti		Wagga Wagga City Cour Walcha Council		02 6774 2500	sounsil@walsha ns
Walcha Council	Walcha Sewage Treatme			Chris Weber		council@walcha.nsw.gov.au
Walgett Shire Council Warren Shire Council	Warren Sowage Treatme		Warren Shire Council	Michael Urquhar Gary Woodman	02 6828 6100	admin@walgett.nsw.gov.au
Warren Snire Council Warrumbungle Shire Council	Warren Sewage Treatme		Warren Shire Council Warrumbungle Shire Co			council@warren.nsw.gov.au info@warrumbungle.nsw.gov.au
Warrumbungle Shire Council	Baradine Sewer Coolah Sewage Treatmer		Warrumbungle Shire Co	•	102/03/6 3000	mnowwarrumbungle.nsw.gov.au
Warrumbungle Shire Council	Coonabarrabran Sewer		Warrumbungle Shire Co			
Warrumbungle Shire Council	Dunedoo Sewer		Warrumbungle Shire Co			
Weddin Shire Council	Grenfell Sewage Treatme			Glen Carroll	02 6343 1212	mail@weddin.nsw.gov.au
Wentworth Shire Council	Gol Gol Sewage Treatmer		Wentworth Shire Council		02 0343 1212	mane wedam.nsw.gov.au
Wentworth Shire Council	Cadell Street Sewage Trea		Wentworth Shire Counc			council@wentworth.nsw.gov.au
Wentworth Shire Council	Wentworth Sewage Treat		Wentworth Shire Counc			Counciles Welleworth.hisw.gov.du
Wingecarribee Shire Council	Berrima Sewage Treatme		Wingecarribee Shire Co		(02) 4868 0888	mail@wsc.nsw.gov.au.
Wingecarribee Shire Council	Bowral Sewage Treatmer		Wingecarribee Shire Co		1,-2, .500 0000	
Wingecarribee Shire Council	Bundanoon Sewage Trea		Wingecarribee Shire Co			
Wingecarribee Shire Council	Mittagong Sewage Treatr		Wingecarribee Shire Co			
Wingecarribee Shire Council	Moss Vale Sewage Treatr		Wingecarribee Shire Co			
Wingecarribee Shire Council	Robertson Sewage Treatr		Wingecarribee Shire Co			
occarriace sinic council	Yanco Sewerage Treatme		Yanco Agricultural High		02 69511 500	yancoag-h.school@det.nsw.edu.au
Yanco Agricultural High School			, r op routturur i ligit		1 00011 000	Harris and the second of the s
Yanco Agricultural High School Yass Valley Council					02 6226 1477	council@vass.nsw.gov.au
Yass Valley Council	Murrumbateman Sewera	20844	Yass Valley Council	Chris Berry	02 6226 1477	council@yass.nsw.gov.au
		20844 1730		Chris Berry		council@yass.nsw.gov.au tz@zoo.nsw.gov.au

Appendix 2

The results showed that total nutrient load from individual outfalls sites around Australia ranged from 12 to 6,934,136 kg, with a mean of 164,551 kg (Table 1). The ranked loads throughout Australia were mapped by quartiles. The top quartile (lowest nutrient load) of outfalls seems to be more prevalent in regional areas and discharge less nitrogen and phosphorus loads into the coastal and marine environment. The bottom quartile, on the other hand, with higher nutrient loads principally occur around the major cities. The phosphorous concentrations contribute less to the overall outfall nutrient load and vary less between outfall sites. Nitrogen, on the other hand has a higher median contribution and high variability across the sites.

Table 1. Top (green) and bottom (red) quartiles of outfall ranking for 2019/2020 financial year data.

Outfall	Nutrients Load (kg)	State	Rank
Christies Beach - Southern	12	South Australia	1
Iluka	15	New South Wales	2
Beaconsfield	32	Tasmania	3
Swansea	42	Tasmania	4
Crescent Head	51	New South Wales	5
Bicheno	151	Tasmania	6
Bundaberg North	164	Queensland	7
Cambridge	185	Tasmania	8
Port Welshpool	287	Victoria	9
Rokeby	291	Tasmania	10
Cocos (Keeling) Island	391	Western Australia	11
Sisters Beach	403	Tasmania	12
Triabunna	419	Tasmania	13
Toora	436	Victoria	14
Christmas Island	508	Western Australia	15
Wickham	522	Western Australia	16
Boat Harbour	543	Tasmania	17
Busselton (North)	561	Western Australia	18
St Helens	626	Tasmania	19
Port Arthur	631	Tasmania	20
Bermagui	1,010	New South Wales	21
Karana Downs	1,016	Queensland	22
Dover	1,080	Tasmania	23
Beauty Point	1,121	Tasmania	24
Merimbula	1,210	New South Wales	25
Port Douglas	1,620	Queensland	26
Bowen	1,824	Queensland	27
Risdon	1,936	Tasmania	28
Stanley	2,423	Tasmania	29
Orford	2,513	Tasmania	30
Long Nose (Tomakin)	2,588	New South Wales	31
Landsborough	2,657	Queensland	32
Cygnet	2,740	Tasmania	33

Outfall	Nutrients Load (kg)	State	Rank
Currie	2,907	Tasmania	34
Cannonvale	2,929	Queensland	35
Rockhampton North	38,354	Queensland	106
Christies Beach - Northern	46,220	South Australia	107
Lorne	46,717	Victoria	108
Altona	51,912	Victoria	109
Merrimac	52,066	Queensland	110
Bunbury	52,316	Western Australia	111
Gibson Island	52,354	Queensland	112
Cameron Bay	54,120	Tasmania	113
Apollo Bay	57,729	Victoria	114
Elanora	63,023	Queensland	115
Newnham	65,998	Tasmania	116
Bolivar High Salinity	67,840	South Australia	117
Smithton	68,174	Tasmania	118
Loganholme	68,620	Queensland	119
Anglesea	101,003	Victoria	120
Coombabah	101,969	Queensland	121
Boags Rock (Boneo, Mt Martha, Somers)	102,068	Victoria	122
Prince of Wales	152,605	Tasmania	123
Oxley	156,658	Queensland	124
Macquarie Point	160,696	Tasmania	125
Ti-tree Bend	207,249	Tasmania	126
Warrnambool	210,031	Victoria	127
Pardoe	239,581	Tasmania	128
Glenelg	243,404	South Australia	129
Kawana	260,974	Queensland	130
Winnie Bay (Kincumber)	285,982	New South Wales	131
Bolivar WWTP	366,621	South Australia	132
Subiaco	421,021	Western Australia	133
Luggage Point	448,070	Queensland	134
Point Peron	517,419	Western Australia	135
Beenyup	681,269	Western Australia	136
Woodman Point	1,011,506	Western Australia	137
Boags Rock (Eastern Treatment Plant)	3,479,639	Victoria	138
Werribee (Western Treatment Plant)	5,103,568	Victoria	139
Black Rock	6,934,136	Victoria	140

Appendix 3

Table 1 Parameters

Outfall Details (As per outfall.info)					
Organisation Details					
Mixing zone					
Location					
Population /Connections					
Licensed capacity of Outfall					
arameters (As per what we collect now)					
			Yearly	Monthly	Daily
Priority (Definition?) A,B,C			Totals	Averages	Flow
A	Outfall Flow volume	ML			
В	Influent Flow Volume	ML			
С	рН	рН			
В	Total dissolved solids	mg/L			
В	Total suspended solids	mg/L			
A	Total phosphorus	mg/L			
Α	Total nitrogen	mg/L			
A	Oil and grease	mg/L			
С	Surfactants (MBAS)	mg/L			
С	E. coli	org/100mL			
В	Enterococci	org/100mL			
В	Faecal coliforms	org/100mL			
С	Turbidity	NTU			
С	Colour	Pt. Co. Units			
С		Frequency			
С		Frequency			
ncidents	Description	Further Infro	mation (L	inks etc.)	
Out of license events	·				
Community interactions					
Algal blooms					
Blue green algal bloom					
uture Changes and Key Dates Governan	ce				
Capital Works affecting process					
Proposed Variation to License					
License History (Variations etc.)					
Community Notification Policy					
merging Contaminants					
Results (if measured)					
Participating in Research					
Links to Papers					
Recycling					
Details and Methodology					

Table 2 Report Card

Feature to Display	Information Listed	Pictorial Representation
Outfall location		Coordinate point
Treatment level/process	Primary, Secondary, Tertiary, Advanced Tertiary	
Water quality compared to class A+recyclable		4 Shaded drops
Outfall type	Deep ocean	Symbol
	Coastal/estuary	Symbol
	River	Symbol
Treatment plant capacity	% Influent capacity (influent volume/capacity)	Visual % representation.
Influent received	Actual flow received per day	Olympic swimming pools or other relatable volume
Population serviced		People
Effluent discharged Nutrient load		Olympic swimming pools or other relatable volume Containers of Food/Protein
Key pollutants/issues related to specific to outfall	e.g., Warriewood heavy rain events, Warrnambool: cotton buds phosphorus etc.	List eg e-coli, phosphorus, pH.
Emerging contaminant load	Are these being addressed or monitored? If so how and link to data.	Question Mark
Water Recycling	Percentage of Water Recycled	Recycled symbol
Size of mixing zone (Compromised Beneficial Use)	Description	Shaded area of mixing zone on map
Future changes or proposals that may affect discharge e.g., Capital works, License changes or anything else that might change pollutant load	Key dates and description of change and regulatory requirements	A suitable symbol for change