



# CLEAN4SHORE

*“Communities Protecting Local Waterways”*

# ANNUAL REPORT 2022



Local Land Services



*This Project received Grant funding from the Australian Government through the Environment Restoration Program.*



Gosford High  
Hawkesbury  
August 2022



Asquith Boys  
Hawkesbury  
Derelict Vessel  
Dead Horse Bay



Asquith Boys  
Group Forum  
David Bolton  
Hornsby Shire Council

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## Acknowledgements

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The Federal Government's Environment Restoration Grant received in June 2020 concludes in February 2023. This grant has provided Clean4shore with stable, consistent financial support which has enabled our schools and community organisations to plan field trips appropriate to the student or client educational requirements.

Central Coast Council manage the Environment Restoration Grant including the distribution of funds, delivery of field trips and the completion of evaluation milestone reports. Central Coast Council also manage the disposal of all Clean4shore collected items with "charity discount" fees applying on loads delivered to Woy Woy Landfill. Proactive support is supplied by all staff during the often-difficult disposal at the tip, despite the steep rise in disposal fees from \$35 per tonne to \$113 per tonne. Central Coast Council's Estuary Officers Warren Brown and Ben Cuerel regularly attend field trips ensuring further educational outcomes for the participants plus attention to issues of concern.

Hornsby Shire Council provided \$6600 in grant funding for schools within their boundaries to attend Clean4shore field trips. Senior Estuary Officer David Bolton attended all field trips emphasising the role Hornsby Shire Council was providing the community in reducing waste and litter from flowing into the Hawkesbury River. Educational outcomes involving catchment management are also explained by David through a group forum prior to commencement and through "hands on" participation during each field trip.

The Hunter Local Land Services funding grant secured in 2021 remained in credit throughout 2022 with extended Covid 19 restrictions and staffing issues reducing the number of field trips on the Hunter River. The appointment of Lauren Bullard as Hunter Local Land Services volunteer coordinated enabled the recommencement of the program. Hunter Local Land Services continue to support the Clean4shore Hunter River program through promotion, staffing and disposal options. This program is grant funded to continue in 2023.

Clean4shore's efforts during the Hunter River program in 2021 secured the Regional Landcare Coastcare Award. Clean4shore was then nominated, and secured a "runner up" Award at the 2022 State Landcare Conference, conducted via "zoom" due to Covid 19 restrictions.

The Environment Protection Authority continues to support Clean4shore's application for EPA Waste Exemption and Charity Status at Woy Woy, Summerhill and Newline Waste Management facilities. Central Coast, Newcastle City and Port Stephens Councils support supports Clean4shores application, reducing our disposal fees.

Clean4shore immediate response during the Hawkesbury River floods required consultation with EPA Disaster Management Contractors "Avcon" ensuring the mammoth task of removing the flood debris was well coordinated. Larger items including gas bottles, chemicals and tyres were collected by Clean4shore and deposited at the EPA depot adjacent to the Derrubben boat ramp. Clean4shore targeted the outer sections of the Hawkesbury River allowing Avcon to concentrate on larger flood debris further upstream. Clean4shore then moved further upstream with our schools and community groups to retrieve manageable items of debris and small litter.

Personal protection equipment for volunteers, plus the repair and maintenance of the barge, barge and car trailer is extensive. Transportation of the barge to clean up sites, plus the return trip, generally full of rubbish from the Hawkesbury to the Hunter River, following a dip in salt water

and a trip to the tip, is very taxing on equipment. Grant application incorporates “repair and maintenance” with major breakdowns adversely affecting our operation. Clean4shore’s barge and trailers are stored at the property managed by JD’s Family Auto, with owner James Crowther consistently involved in emergency and regular maintenance tasks. Many thanks to James and the property owner for keeping our program operation.

Clean4shore recognises the role of our sub-contracting barge operators who provide valuable mentoring, local and maritime education, coupled with the important role of storage and unloading the vast volumes of rubbish collected. Their guidance of risk assessment procedures is vital to Clean4shores operations, as is their positive interaction with all attending groups. Many thanks Simon, Rob Moxham, Lee, Mitchell, Adam, Baden and Damo.

Clean4Shore must also acknowledge our small administration and management team comprising Michael Bambridge (President) Liz Phelps (Vice President) Sallie-Ann Macklin (Administration) Jan Sillato (Finance) Shelly (Social Media) Warren Brown & Ben Cuerel (Central Coast Council), David Bolton (Hornsby Shire Council) Lauren Ballard (Hunter Local Land Services), Vicki Elliott (National Parks) and David White (Legal Administration).

The biggest “thank you” of all must go to those students, supervising teacher and volunteers that enable this unique program to be successful.



Central Coast Grammar School, Avoca Lake, December 22

## Financial Support 2022

Australian Federal Government  
Central Coast Council  
Environment Protection Authority  
Hornsby Shire Council  
Hunter Local Land Services  
Landcare Australia  
NSW State Government  
Private Donation

## Logistical Support

Graham Johnston (program coordination)  
Simon Funnell (barge operations)  
Central Coast Council: Warren Brown & Ben Cuere  
Rob Moxham - Barge Support  
Jeff Avcon Projects  
JD's Family Auto, mechanical & equipment storage  
Vicki Elliot - Brisbane Waters National Park  
Lyndi Leggett - Scuba Gym Lake Munmorah  
Lauren Bullard - Hunter Local Land Services  
Jodi Jones - Tangaroa Blue  
David Bolton - Hornsby Shire Council  
Westray Oysters (Damo & Dave)  
National Parks  
NSW Maritime & Fisheries  
Floating Landcare Central Coast  
Oceanwatch Australia  
Brisbane Waters & Hawkesbury Oyster Growers  
Tyre cycle Erskine Park (car & truck tyre recycling)  
Banks Marine - Barge Support (Baden)  
NBN Regional Television  
Coast Community Newspaper  
Facebook & Instagram

## School & Community Groups

Asquith Girls High School  
Asquith Boys High School  
Bouddi Bushcare (Floating Landcare)  
Broken Bay Sport Rec. Centre  
Central Coast Grammar School  
Central Coast Grammar Enviro Group  
Cherrybrook Technology High  
Coast Outriggers  
Elancoah Industries  
Erina High School  
Gosford High School  
Gosford Guides  
Green Point Community College  
Hunter LLS Community Volunteers  
Justice Department Kariong  
Kincumber High School  
Lakes College Youth off the streets  
Lisarow High School  
Loreto Girls College  
MacMasters Beach Surf Club  
Narara Valley High School  
North Gosford Learning Centre  
Ocean Beach Surf Life Saving Club  
Patonga & Pearl Beach Community  
Rouse Hill Anglican College  
Scuba Gym Community Divers  
St Edwards Christian Brothers College  
St John's University Sydney  
St Peter's Catholic College Tuggerah  
St Peters Catholic College Gosford  
St. Peters "Dale" College  
St Pius X High School  
The Glen  
Umina High School Support Unit  
Wyong High School

## Executive Summary

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The final year of our secured Federal Government Environment Restoration Grant, very well managed by Central Coast Council, and the easing of Covid 19 restrictions, allowed Clean4shore to confidently engage our schools and community organisations.

With an approaching Federal Government election, Clean4shore received continuing support from the current Coalition Government with a firm commitment from local member, Lucy Wicks to extend our grant past February 2023, pending an election victory.

Assurances cannot be guaranteed, especially when a change of the Federal Government occurred. Dr Gordon Reid, became the new Labour Party member of Parliament for the Electorate of Robertson and immediately advised community organisations including Clean4shore that commitments from the previous Government would not be honoured.

Clean4shore began the task of submitting funding grant applications, supported by Dr Gordon Reid, to ensure the programs future extends beyond February 2023. Federal Government grant applications were also submitted and supported by Emma McBride from the Dobell Electorate and Julian Leeser from the Berowra Electorate. State Government Member of Parliament and Secretary for the Central Coast, Adam Crouch, also supported Clean4shore's grant applications together with Central Coast Council. These grants, if successful would ensure Clean4shore's ability to operate in 2023.

Central Coast Council continued their support for Clean4shore with administration and compliance guidance plus the expertise of Senior Estuary Officers Warren Brown and Ben Cuerel. Central Coast Council provided Clean4shore with grant funding to provide barge operations for the Floating Landcare program utilising TAFE and community members on revegetation tasks on Crown land. Clean4shore supported the Central Coast National Parks Floating Landcare program with the barge transporting volunteers on evasive weed eradication tasks on National Parks property. In total fifteen field trips were completed focusing on bush regeneration projects during 2022.

Clean4shore's experience and ability to respond to flooding was evident in March and July when two major flooding events occurred in the Hawkesbury River. Community and school field trips were quickly diverted to Patonga removing twenty tonne of debris from the water. Clean4shore cooperated positively with the EPA contractors "Avcon" on each of these natural disasters. Central Coast Council provided and funded 'skip bins' at Patonga, easing the disposal process. Clean4shore's extensive work on the flood debris was funded through our Environment Restoration Grant, greatly reducing our grant budget. In due respect to the Disaster Management organisation, this expenditure by Clean4shore on flood debris, should have been refunded. Flood debris continued to flow down the Hawkesbury River throughout 2022.

The full return of the schools, following Covid 19 restriction, allowed for a very diverse range of students attending each field trip. The Clean4shore program can easily be adjusted to provide challenge, education and self-achievement to support units, disengaged youth, mainstream and indigenous groups. The dedicated teachers and support staff endure the hardship of a tough day on the water, providing positive mentoring towards the students. Many thanks to the Department of Education for their continued support of the Clean4shore program.

The Lower Lake Macquarie and the Tuggerah Lakes programs continued. The impact of the floods was manageable in Tuggerah Lakes and much less severe in Lake Macquarie. Clean4shore's priority remained in the Hawkesbury River for much of the year.

Clean4shore commenced 'underwater' litter and debris removal through the engagement of the "Scuba Gym" with three field trips completed utilising volunteer divers and support crew. This program is coordinated by Lyndi Leggett from the "Scuba Gym" will continue into 2023 following outstanding and confronting results in the volume of decaying debris and plastic beneath our public jetties.

Collected litter data is confusing when comparisons are drawn over previous years. The absence of schools during 2020 and 2021 through Covid 19, reduced the collection of small litter items. The presence of major flooding increased the larger items washed into the waterways, especially the Hawkesbury River. Polystyrene now dominates most data collected on field trips, with industry compliance and incentives on recyclable products evident in the reduced volumes of plastics.

Clean4shore maintained compliance regulations and insurances through NSW Landcare with the 2022 Annual General meeting revealing audited financial statements of a 120K expenditure and grant funding to match the expenditure. Clean4shore's continual engagement with primary stakeholders ensures stability and appropriate work practices. The social media posts on Facebook and Instagram attract huge audiences, with positive and constructive feedback and support received.

Overall the 2022 program was the largest, most diverse year for Clean4shore since our commencement in 2010 with 139 field trips completed by 846 volunteers, completing 3169 hours of voluntary service with 156,042 items collected weighing 68.7 tonne.



Clean4shore Group Forum – Woy Woy Primary School



## Background

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Clean4shore is a small not for profit community based organization located at MacMasters Beach on the Central Coast of NSW. The program utilises schools, youth, disability, community and corporate groups to clean litter and general rubbish along the foreshores of the Hawkesbury River, Brisbane Waters, Tuggerah Lakes System and more recently Lower Lake Macquarie and the Hunter River.

The clean-ups commenced during a MacMasters Beach Surf Club Duke of Edinburgh's Award kayaking expedition of the Hawkesbury River in 2010. Large volumes of litter were collected on this trip with the Surf Club returning as a social activity for members to address the litter issue. This program quickly expanded to engage school and community organisations, moving into the adjoining waterways of Brisbane Waters and Tuggerah Lakes.

The program utilised surf rescue vessels (IRB's) from the MacMasters Beach Club to transport volunteers and collected rubbish. Great fun and excitement for the young volunteers but hardly the craft for litter collection especially oyster product! Large oyster barges replaced the IRB's in 2014 allowing greater volumes of litter to be collected and improved risk management procedures and guidelines.

The program is reliant on grant funding to engage our community groups, employ subcontracting vessels and transport and dispose of all collected litter. The Federal and State Government joined major stakeholders Greater Sydney and Hunter Local Land Services, Hornsby Shire and Central Coast Councils to provide and secure these grants, keeping the volunteers and subcontractors on the water.

The removal of litter particularly plastics and polystyrene from waterways improves the visual appearance of the estuaries but more importantly greatly improves the estuarine and the marine environment. The volunteers receive an educational challenge and adventure whilst contributing to the global issue of litter in our waterways.



Roland Hassall student 2011 Hawkesbury River



Jake Hubbard with an IRB full on Pelican Island 2011

## Clean4shore Project Summary 2022 (139 field trips)

Field trip Location	Field Trips Completed	Collected Items	Weight Tonne	Volunteer Numbers	Volunteer Hours
Hawkesbury River	69	84,904	46.060	352	1224
Brisbane Waters	38	50,398	15.100	291	999
Tuggerah Lakes / Lake Macquarie	10	4,922	3.600	58	188
Hunter River	4	15,818	3.196	42	126
Floating Landcare	15	N/A		90	593
Scuba Divers (Inc Brisbane waters)	3		.840	13	39
<b>Total</b>	<b>139</b>	<b>156,042</b>	<b>68.796</b>	<b>846</b>	<b>3169</b>

## Comparison Clean4shore Summary 2021 (79 field trips COVID 19)

Field trip Location	Field Trips Completed	Collected Items	Weight Tonne	Volunteer Numbers	Volunteer Hours
Hawkesbury River	30	20,521	39.670	196	565
Brisbane Waters	33	49,895	11.790	291	1061
Tuggerah Lakes / Lake Macquarie	8	6,428	3.540	80	258
Hunter River	8	13,844	4.410	68	238
<b>Total</b>	<b>79</b>	<b>90,839</b>	<b>59.410</b>	<b>635</b>	<b>2,122</b>

## Clean4shore Total Summary from 2014 - 2022

Clean4shore Statistical Year	Field Trips	Collected items	Total Weight Tonne	Volunteer Numbers	Volunteer Hours
2014	81	131,631	71.4	691	2,847
2015	39	193,243	34.9	465	1,774
2016	67	182,636	52.2	554	2,160
2017	76	106,636	56.9	434	1,603
2018	114	137,286	62.6	600	2,101
2019	116	111,307	59.6	710	2,239
2020	104	282,964	64.6	698	2,581
2021	79	90,839	59.4	635	2122
2022	139	156,042	68.7	846	3169
<b>Total</b>	<b>815</b>	<b>1,392,584</b>	<b>529.7</b>	<b>5,323</b>	<b>20,596</b>

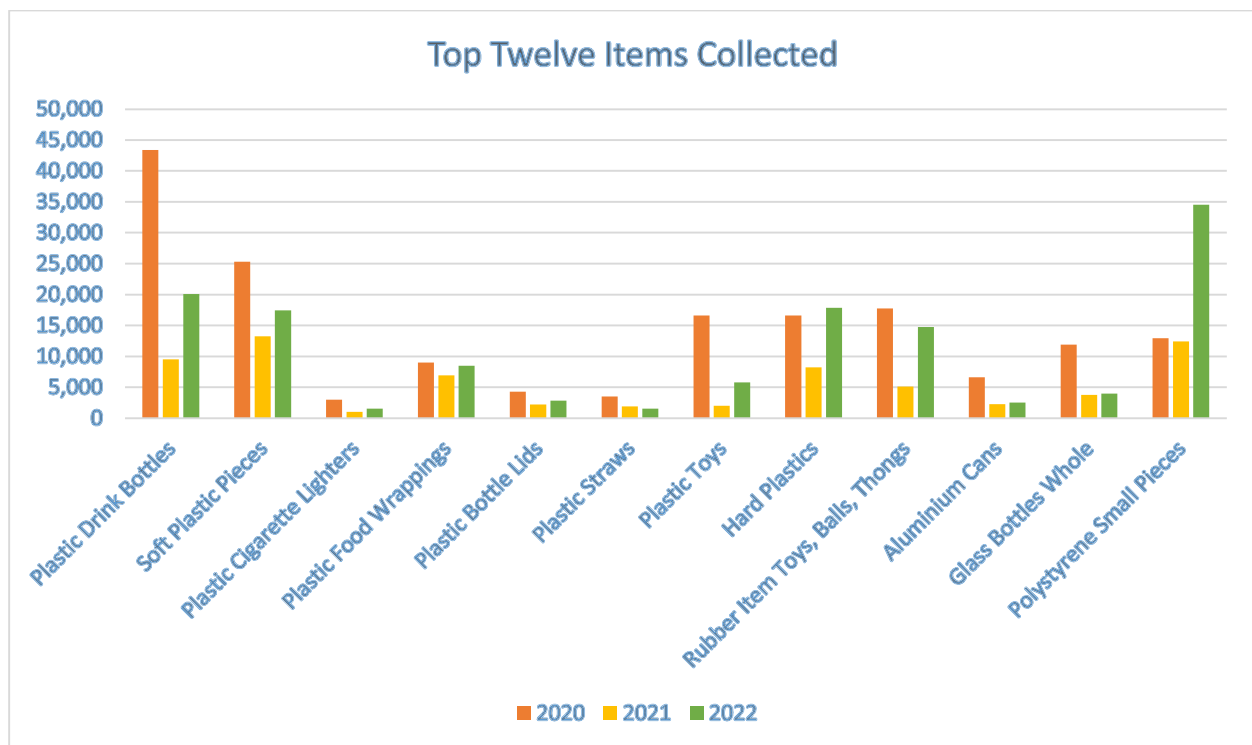
## Statistics

Top Twelve Small Items Collected in 2020, 2021 & 2022							
Plastic Item	2020	2021	2022	Item	2020	2021	2022
Drink Bottles	43,389	9,501	20,071	Plastic Toys	16621	2,028	5,769
Soft Plastics	25,289	13,244	17,448	Hard Plastics	16621	8,221	17,851
Cigarette Lighters	3,005	1,028	1,533	Rubber Balls, Thongs	17754	5,104	14,769
Food Wrappings	8,986	6,957	8,496	Aluminium Cans	6621	2,261	2,555
Bottle Lids	4,268	2,218	2,825	Glass Bottles Whole	11918	3,798	3996
Straws	3,521	1,921	1,559	Polystyrene Small	12936	12,394	34,506

Note: The 2020 statistics were highly biased toward the bulk litter from the Hunter River

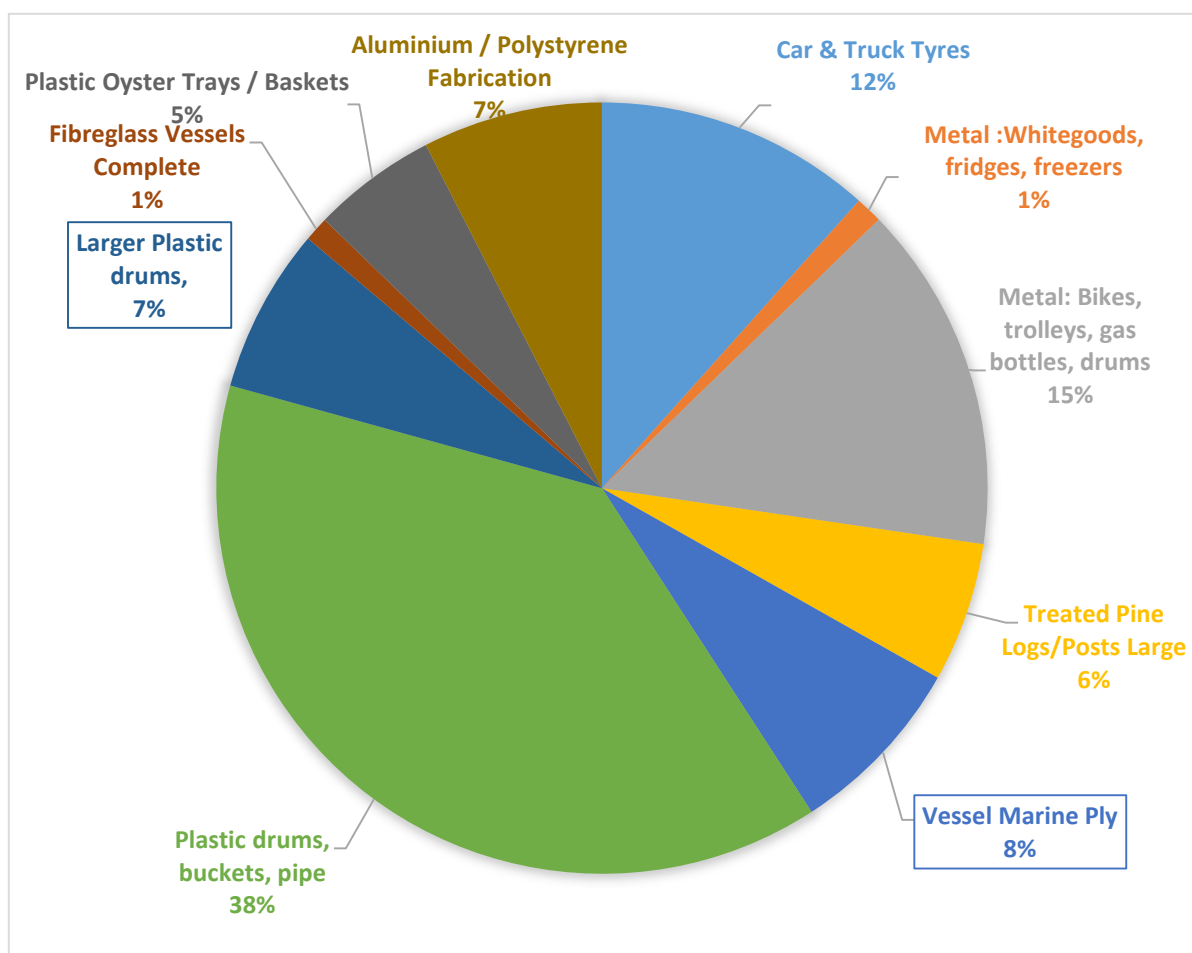
Note: The 2021 statistics reflects COVID 19 community and school based restrictions in field trips.

Note: The 2022 statistics reflect on the Hawkesbury flood especially the presence of polystyrene

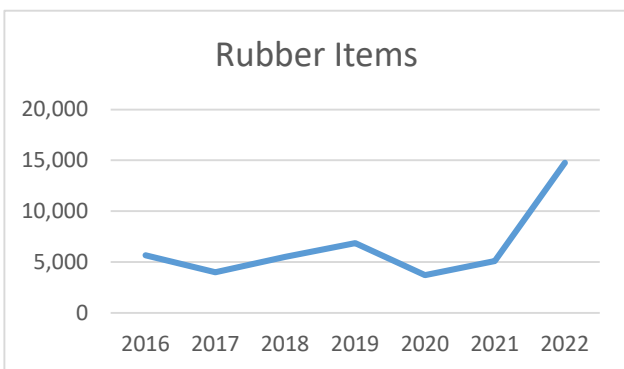
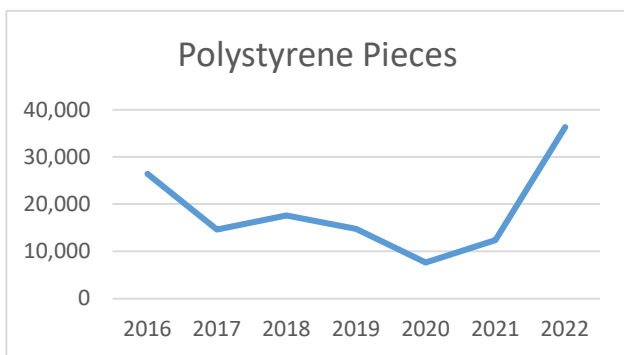
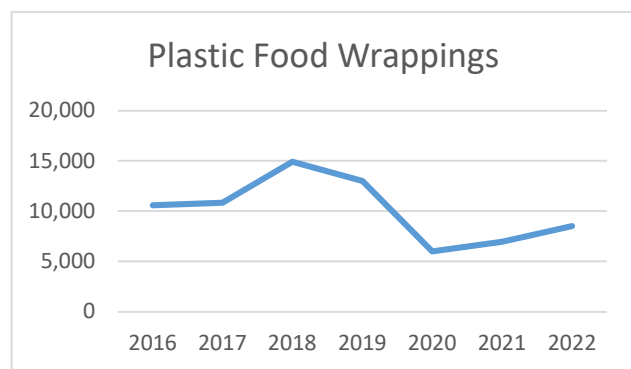
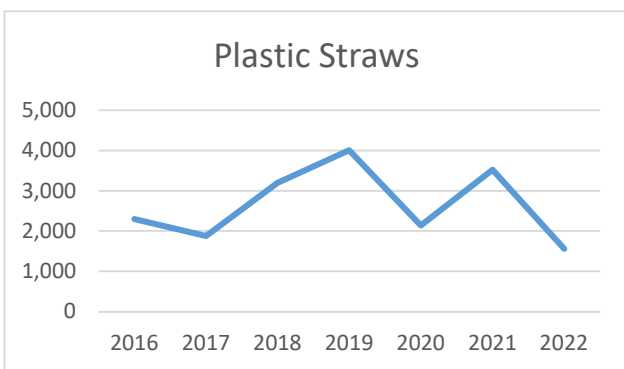
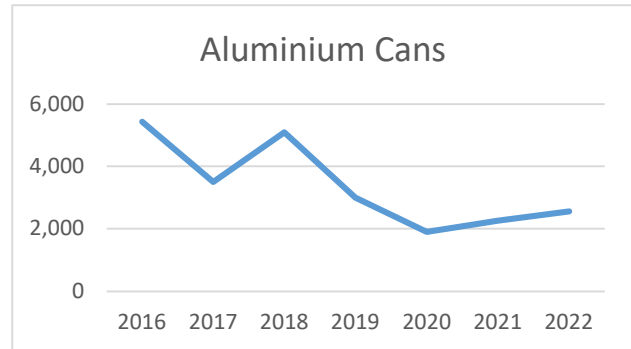
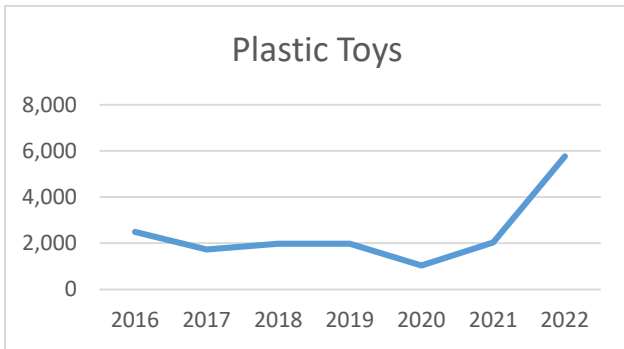


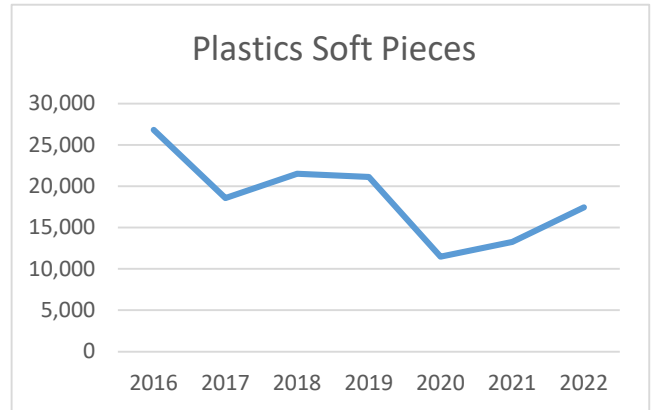
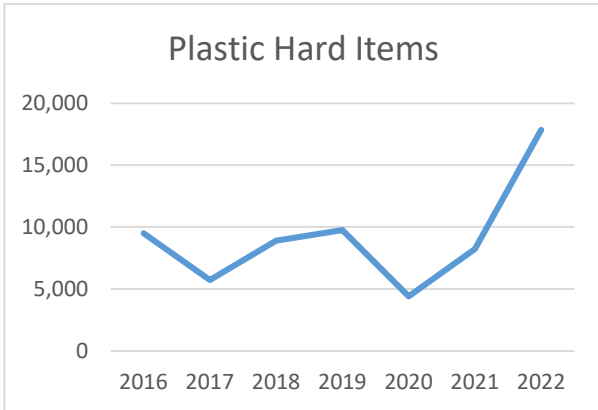
Top Ten Larger Items Collected in 2022 (Reflecting Flood Debris)			
Car & Truck Tyres	351	Plastic drums, buckets, pipe	1162
Metal :Whitegoods, fridges, freezers	34	Larger Plastic drums,	209
Metal: Bikes, trolleys, gas bottles, drums	441	Fibreglass Vessels Complete	31
Treated Pine Logs/Posts Large	177	Plastic Oyster Trays / Baskets	158
Vessel Marine Ply	232	Aluminium / Polystyrene Fabrication	228

**Note: Aluminium / polystyrene fabrication result of caravans washed away in the floods**

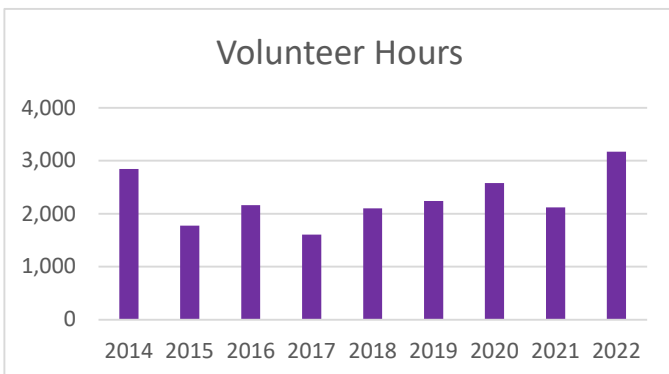
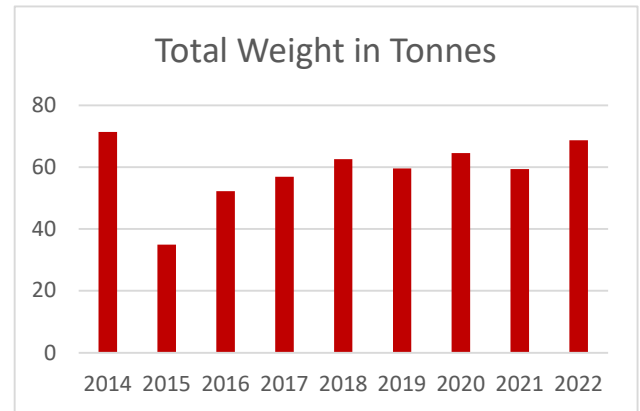
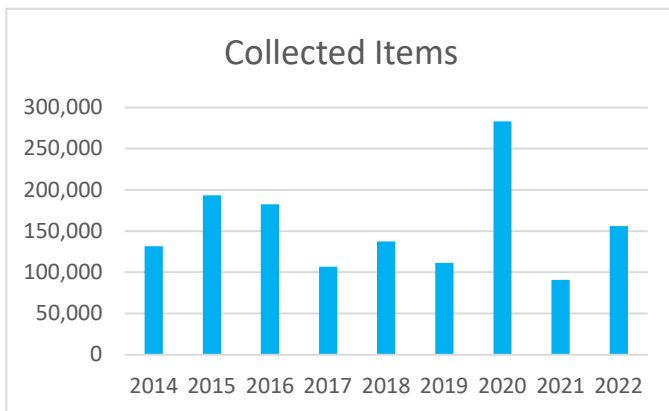
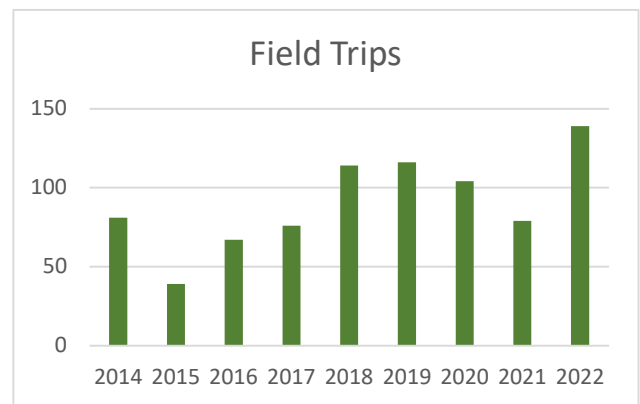
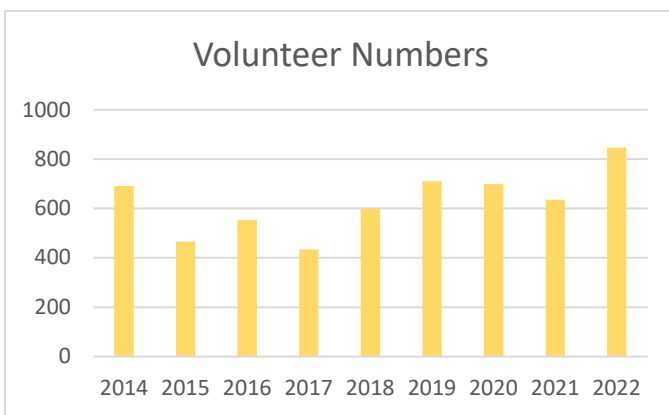


## Analysis and trends of smaller items over five years - excluding Hunter River





## Analysis of Clean4Shore – Nine Years Data.



## Case Study - Hawkesbury River Flood

Clean up Australia Day on the 6th March 2022 certainly presented some issues for the participating general public as heavy rainfall during the week resulted in the first of two major flooding events in the Hawkesbury River.

Clean4shore travelled to Patonga to witness a beach full of timber and flood debris with locals desperately attempting to remove car tyres, fridges, polystyrene “slabs”, water tanks and all things that floated higher above the tidal mark. Heavy rain again that day had the volunteers retreating as more debris was thrust onto the beach. Clean4shore returned to Pearl Beach the following day with locals stacking debris near Flathead Beach and at the Northern end of Pearl Beach. Central Coast Council provided skip bins at Patonga to ease the disposal options and allow for more field trip from the Clean4shore schools and volunteers.

Continual and prolonged rainfall presented the second flood on the 6th July with more devastation, and proven reports of Caravan Parks being inundated with water, launching whole caravans into the Hawkesbury River, suggested “here we go again”. Central Coast Council was again proactive with the skip bins whilst work crews had just finished the task of removing timber debris from the Central Coast beaches, sharing the thoughts of “here we go again”.

EPA contractors, Avcon supported Clean4shore on both occasions with the barge focussing on Broken Bay, repeating the feats of March, as flood debris continued to drift down the Hawkesbury River throughout the year.

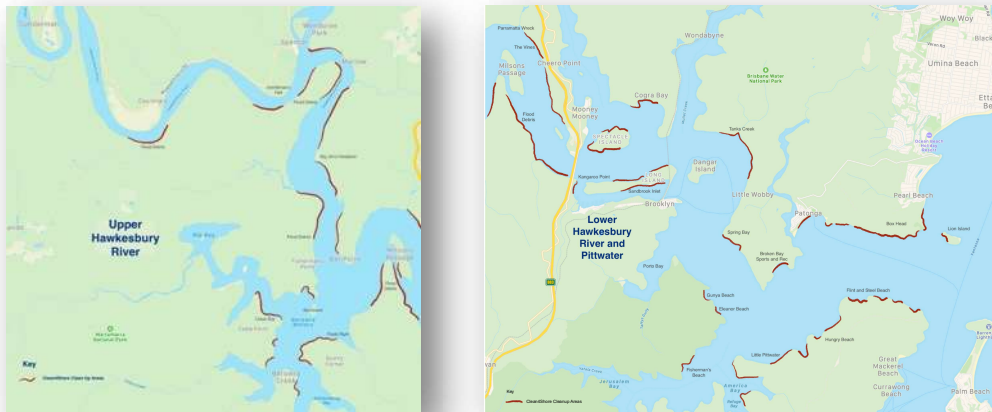
Clean4shore expenditure on both these natural disasters deserved separate funding, as our grants for domestic and school based clean ups were exhausted by the focus on the Hawkesbury River floods.

Additional barges were secured on both occasions as local oyster farmers and fisherman were contracted by Clean4shore to join in the task, sharing the enjoyment and challenges faced by our volunteers. Many thanks Adam, Carl and Damo.



Hawkesbury River Flood Debris

## Hawkesbury River Summary



Flood debris from 2021 was still present on the foreshores, yet harder to locate with January holidays allowing for community-based field trips into the Hawkesbury River upstream from Spencer. Timber, plastic tanks, planter boxes and aluminium/polystyrene fabrication were found deeper into the mangroves. Pumpkin Point Creek has a derelict vessel site where local a fisherman has towed and deposited vessels from previous floods. These will need stakeholder and compliance support for removal options.

March presented the first of two major flood events in the Hawkesbury River with immediate land-based surveys and clean ups on Patonga, Pearl Beach, Killcare and Macmasters Beach. Central Coast Council provided positive action with machinery on the beaches to remove the bulk timber debris washed downstream from the Hawkesbury River during these floods. Community organisation attended field trips in the Clean4shore barge with St Johns University, Coast Outriggers, Erina High, The Glen and North Gosford Learning Centre participating in the mammoth clean-up task operating from Patonga in the mouth of the Hawkesbury River.

EPA contractors Avcon based at Derrubben Reserve Mooney Mooney commenced a primary clean-up of the masses of larger items floating down the river. Reports of bulk debris from caravans washed into the Hawkesbury by flood water was evident as large 'slabs' of aluminium / polystyrene fabrication was visible floating downstream. Plastic water tanks, fridges, lounges, jetty material, and household items were all present in the flood waters.

Clean4shore based at Patonga and engaging local oyster growers who were shut down by the flood, to provide transport for our increasing school demand for assistance during the Hawkesbury River floods. July presented the second major flood, with Clean4shore returning to Patonga where masses of timber and flood debris was again deposited on all beaches and foreshores. Debris was consistent with the March flood as more plastic tanks and drums, hay bales, masses of small items and polystyrene fabrication was collected.

Central Coast Council provided large skip bins at Patonga to offset our disposal fees and allow multiple daily trips. Broken Bay Sport and Recreation staff assisted Clean4shore gathering 'bulka bags' full of small litter with two large plastic tanks "cut up" and loaded onto the barge.

Central Coast Grammar students completed "community service" with Clean4shore, assisting in flood debris and litter removal during this period. Local Hornsby based schools Loreto Girls, Asquith Boys and Girls, St John's University joined the clean-up in and around Brooklyn. Additional funding and staff support from Hornsby Shire Council and Estuary Officer David Bolton provided valuable educational outcomes and resources to continue the program on both sides of the Hawkesbury River.



The masses of polystyrene generated by the floods from the breakdown of caravans and cool rooms extends to Lion Island and is a major issue moving forward as this product is breaking up into smaller pieces with Lion Island’s main beach awash with small polystyrene.

Derelict vessels still plague this waterway with fifteen larger fibreglass and five inflatable rubber vessels removed. The state of many more vessels in danger of sinking is still present throughout this waterway.

October had increased school enquiry with environmental programs being promoted by the Department of Education with Cherrybrook and Rouse Hill High schools each completing three separate field trips. These younger students, very unfamiliar with waterways and boating thrived on the challenge of litter removal from the mud of the mangroves and rocky foreshores. The supervising staff are to be applauded for allowing the challenge of “adventure and discovery” that the Clean4shore program presents with outstanding benefits to the environment.

Our barge operators Carl, Mitchell, Adam, Damo and Simon provided quality maritime guidance and mentoring on all topics relating to aquaculture in the Hawkesbury River, plus mentoring that kept a “smile on the dial” of our volunteers. Massive increase in the field trips, tonnage, volunteers and volunteer hours all due to the floods with support from Hornsby and Central Coast Councils and the Federal Government through the Environment Restoration Fund.



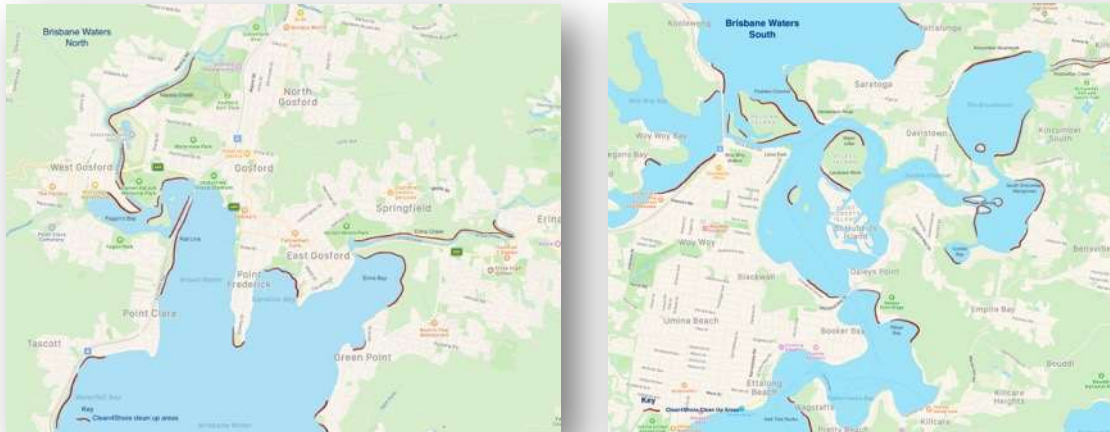
<b>Hawkesbury River Field Trips 2022</b>					
<b>Date</b>	<b>Group</b>	<b>Site</b>	<b>Weight Tonne</b>	<b>Volunteers</b>	<b>Total hours</b>
07/01/22	Clean4shore	Derrubben Vessel	.660	0	0
11/01/22	MacMasters Beach SLSC	Gentleman's Halt	.480	1	4
12/01/22	MacMasters Beach SLSC	Gunderman	.280	1	4
18/01/22	MacMasters Beach SLSC	Big Jim's Headland	.520	4	16
02/02/22	Clean4shore	Bar Point	.940	0	0
04/02/22	The Glen	Marlow's	1.220	3	15
09/02/22	Clean4shore Survey	Spencer			
06/03/22	Community	Broken Bay	1.040	7	14
07/03/22	Community	Patonga	.800	2	6
09/03/22	Avcon	Derrubben	.400	1	1
10/03/22	Community	Broken Bay	.940	2	6
11/03/22	Community	Broken Bay	.600	4	12
12/03/22	St Johns College	Broken Bay	1.660	10	40
13/03/22	Community	Broken Bay	2.600	30	60
16/03/22	North Gosford Learning	Broken Bay	3.000	7	28
18/03/22	Community	Broken Bay	.700	1	4
20/03/22	Coast Outriggers Club	Broken Bay	.900	12	36
22/03/22	Erina High School	Broken Bay	.680	8	32
24/03/22	The Glen	Milsons Passage	.620	4	12
30/03/22	Community	Lloyds Gulley	.960	2	8
03/04/22	Community	Bar Island	.640	3	12
10/04/22	MacMasters Beach SLSC	Marlows	.840	5	20
12/04/22	Community	Broken Bay	.580	3	12
14/04/22	Ocean Beach SLSC	Broken Bay	.340	5	20
20/04/22	MacMasters Beach SLSC	Sandbrook Inlet	.440	8	30
02/05/22	Community	Lion Island	.520	3	15
05/05/22	MacMasters Beach SLSC	Hungry Beach	.140	3	15
09/05/22	Community	Pumpkin Point	.440	2	10
17/05/22	Community	Dangar Island	1.340	1	4
08/06/22	Gosford High School	Little Wobby	.300	22	88
15/06/22	The Glen	Mullet Creek	.220	4	12
17/06/22	Clean4shore	Mullet Creek	.800		
06/07/22	Clean4shore Survey	Broken Bay			
08/07/22	Community	Broken Bay	1.740	5	20
10/07/22	Community	Broken Bay	.200	3	12
13/07/22	Community	Broken Bay	1.620	2	8

<b>Hawkesbury River Field Trips 2022 Continued</b>					
Date	Group	Site	Weight Tonne	Volunteers	Total hours
16/07/22	Community	Broken Bay	.600	1	5
17/07/22	Community	Broken Bay	.800	1	2
26/07/22	Community	Broken Bay	.800	4	8
11/08/22	Community	Sandbrook Inlet	.540	3	9
19/08/22	Asquith Girls High	Long Island	.500	17	65
30/08/22	MacMaster's Beach SLSC	Wendoree Park	.560	3	12
10/09/22	Community	Hungry Beach	.340	6	18
27/09/22	Community	Spencer	.580	3	12
04/10/22	Coast Grammar	Gentlemans Halt	.600	4	14
13/10/22	Clean4shore Survey	Broken Bay			
18/10/22	Clean4shore Survey	Dinner Creek			
21/10/22	Community	Dinner creek	.400	1	4
23/10/22	Loreto Girls High	Gunyah	.320	10	40
25/10/22	Asquith Boys High	Porto Bay	1.080	14	65
26/10/22	Rouse Hill College	Lloyds Gulley	1.160	14	56
27/10/22	The Glen	Little Wobby	.400	5	15
30/10/22	St Johns College	Flint & Steel	.360	7	28
01/11/22	MacMasters Beach SLSC	Patonga	.200	1	3
10/11/22	Clean4shore vessel	Sandbrook Inlet	1.220	2	4
15/11/22	Cherrybrook High	Bar Point	.500	15	60
18/11/22	Elancoah Industry	Spring Beach	.300	7	20
22/11/22	Cherrybrook High	Spectacle Island	740	10	30
25/11/22	Cherrybrook High	Cogra Bay	1.100	12	36
29/11/22	Cherrybrook High	Peats Bite	240	14	56
01/12/22	Rouse Hill College	Marramurra	.620	8	32
02/12/22	Rouse hill College	Berowra	.480	8	32
03/12/22	Gosford Guides	Cobar Point	.780	8	32
13/12/22	Community	Sandbrook	1.660	2	10
17/12/22	Community	Cogra Bay	.900	1	4
21/12/22	Clean4shore vessels	Cogra Bay	1.200	1	4
<b>69 Field Trips</b>			<b>48.140</b>	<b>352</b>	<b>1224</b>

## Hawkesbury River Cool Shots



## Brisbane Water Summary



2022 commenced with secure funding, no Covid 19 restrictions, and schools eager to get out on their local waterway. The Clean4shore program commenced finding small “gutter” litter on the foreshores of Narara, Kincumber, and Erina Creeks where stormwater washes litter directly into the waterway.

Early loads averaged 200 kilos , much lower than normal, with the first of the floods that affected the Hawkesbury River causing little local damage and disruption to the program within Brisbane Waters. The warmer weather and favourable conditions allowed “support unit” students to challenge themselves in the local mangroves on the Clean4shore program.

Bulk flood debris from the Hawkesbury River was deposited on Pearl Beach and the Headlands, Lobster Beach, Half Tide Rocks, Tallows, Killcare and MacMasters Beach during April and then again in July. Masses of polystyrene, torn apart from the caravans and refrigeration trailers that were washed away in the Hawkesbury River floods, lay behind the rocky ocean foreshores, continually reducing in size but growing in numbers.

Derelict vessels still haunt the program, littering marine ply, cushions, and debris, during and after the sinking process. Clean4shore liaised with Maritime, Council and local salvage operator, Tony Collets, to removed 11 vessels, some causing grief and hardship from the owners or occupiers.

The hardship often faced by the local oyster growers, with pollution, algae blooms and stormwater shutting down their operations during this wet year was reflected in the 67 oyster baskets found in the mangroves. Clean4shore understands the issues of storage and operational space this industry faces in Brisbane Waters.

Illegal dumping is still an issue close to Brisbane Waters with Narara High School assisting to remove a large residential dump on Crown Land close to Narara Creek. The owners were contacted with the property belonging to a deceased estate, with approval provided for the removal process. Central Coast Floating Landcare group also had a taste of the demands of our program assisting on the Narara dump site with 2.080 tonne removed.

Central Coast Grammar students completed a kayak litter removal program on Avoca Lake during December with Wamberal Lagoon requiring a clean-up in 2023. Many thanks to Avoca Lakes Aqua Hire for the provision of the kayaks.

Statistics from Brisbane Waters suggest that 49,507 smaller litter items were collected from Brisbane Waters with 891 larger items including 85 car tyres or truck tyres removed from the waterways in the 15.1 tonne of litter delivered to Woy Woy Landfill.

Many thanks to “Damo” who backed up Simon as a barge operator with Westray Oysters providing an additional barge when volunteer numbers increased.

Many thanks to our local High Schools, for their vision to engage in Clean4shore following Covid 19 restrictions being withdrawn. Those schools included Lisarow, Kincumber, Gosford, Erina, Narara Valley, Umina, North Gosford Learning, St Edwards College, Green Point Christian, Central Coast Grammar, St Peters Dale Unit, St Peters College Gosford and the community individuals and groups.

Most of all, praise must be given to the volunteer students and those hard-working teachers and supervisors who courageously venture out with Clean4shore on a worthwhile task.



Brisbane Waters Field trips 2022					
Date	Group	Site	Weight Tonne	Volunteer Number's	Total hours
30/01/22	Clean4shore Vessel	Gosford	.400		
21/02/22	St Peters College Gosford	Pelican Island	.100	10	34
23/02/22	Clean4shore	Orange Grove boat	.240	1	3
24/02/22	Community	Gosford vessel	.200	1	3
15/03/22	Narara Valley High	Narara Creek	.180	7	21
17/03/22	Erina High School	Erina High	.220	16	78
04/04/22	Narara Valley High	Fagan's Bay / Narara	.100	8	24
05/04/22	Umina High Support	Riley's Bay	.580	10	30
27/04/22	Clean4shore/Community	Half tide Rocks	.220	1	4
30/04/22	Clean4shore/Community	Tallows/Pearl Beach	.180	2	8
02/05/22	Community	Flathead/Lion Island	.520	3	15
03/05/22	Community	Flathead Beach	.540	3	15
30/05/22	St Peters Gosford Dale	Fagan's Bay	.100	7	21
31/05/22	Narara Valley High	Tascott Straight	.120	7	21
02/06/22	Clean4shore	Gosford Vessel	.800		
07/06/22	North Gosford Learning	Paddy's Channel	.160	7	21
09/06/22	St Edwards College	Erina Bay / Creek	.200	9	27
16/06/22	Kincumber High School	Kincumber Broadwater	.380	15	45
22/06/22	Gosford High School	Fagan's Bay	.660	18	54
18/08/22	Community	Lobster Beach Ladders	.060	1	3
21/08/22	Clean4shore	Pretty Beach Vessel	.160		
02/09/22	Kincumber High School	Cockle Bay	.460	14	52
08/09/22	North Gosford Learning	Rip Bridge Pelican	.360	5	12
12/09/22	Narara Valley High	Narara Creek	.340	8	32
13/09/22	Clean4shore Community	Woy Woy Vessel	1.820	1	6
16/09/22	The Glen	Survey / Swim Ass		22	66
17/09/22	Clean4shore	Uni Promotion			
19/09/22	Narara Valley High	Narara Creek	1.080	12	48
21/09/22	Community	Narara Creek Dump	1.000	2	8
28/09/22	Central Coast Council	Kincumber Broadwater	.180	2	4
03/11/22	North Gosford Learning	Woy Woy Bay	.340	7	24
04/11/22	Green Point Christian	Empire Bay	.340	14	56
08/11/22	Kincumber High	Kincumber Creek	.520	14	56
09/11/22	Lisarow High	Erina Bay	.360	8	24
21/11/22	Green Point Christian	Kincumber Broadwater	.980	10	30
28/11/22	Narara Valley High	Fagan's Bay Narara	.320	10	30
05/12/22	Central Coast Grammar	Avoca Lake	.240	36	72
06/12/22	Kincumber High	Woy Woy Bay	.280	14	52
<b>38 Field Trips</b>			<b>15.100</b>	<b>291</b>	<b>999</b>

## Brisbane Water Photos





## Hunter River Summary



Covid 19 restriction and staffing generated a slower than normal start to the Hunter River program, together with the Clean4shore's priority on the Hawkesbury River flooding. Funding was assured with the Hunter Local Land Services 2021 grant still financial.

St Pius X high school from Adamstown completed the first field trip and immediately collected litter and flood debris close to the Tomago boat ramp and Ash Island jetty pontoons. These students dragged a derelict fibreglass vessel from the mangroves with tidal mud presenting a difficult challenge, well overcome.

Major flooding again in the Hunter in June and July again restricted Clean4shore's attendance with the EPA contractor Avcon busy on a primary clean-up of flood debris.

Clean4shore completed a survey with Hunter Local Land Service Coordinator Lauren Bullard and community volunteers in September revealing a positive decrease in the returning volume of litter within the Hexham and Heatherbrae mangroves.

Newcastle University assisted in a field trip of the Hexham mangroves collecting 43 full bags plus bulk items, far less than the 300 bags collected the previous year. Hunter Local Land Services volunteers continued their support with a field trip in December further into the Heatherbrae mangroves removing another 31 full bags plus larger items. Banks Marine supported both field trip with a second barge providing a much safer transfer of volunteers and collected rubbish.

The Hunter Local Land Service grant provided a large skip bin at the Tomago boat ramp on each field trip allowing for a simple off load and disposal option.

The Hunter River will require additional field trips in 2023 and has the continued support from Hunter Local Land Service and the team of community volunteers, to locate the small litter items, mostly hidden well back behind the mangroves and high tidal marks.

Collated statistics on the three field trips completed suggested 711 plastic bottles, 1382 items of hard and soft plastics, 997 glass bottles, 542 pieces of polystyrene collected plus larger items including 26 plastic large drums and buckets and 17 car or truck tyres.

Field Trips Hunter River 2022					
Date	Group	Site	Weight Tonne	Volunteers	Total hours
19/05/22	St Pius X High School	Tomago	840	19	48
30/09/22	Clean4shore Survey	Tomago / Heatherbrae		4	12
17/11/22	HLLS / Volunteers	Tomago / Hexham	1.100	10	30
14/12/22	HLLS / Volunteers	Tomago / Hexham	1.256	9	36
<b>4 Field Trips</b>			<b>3.196</b>	<b>42</b>	<b>126</b>



St Pius students, excited and clean!



Students assisting with offload



High tidal water an issue along Heatherbrae mangroves, plenty of strange items removed





Industrial polystyrene from the Hexham site and Heatherbrae mangroves rubbish timber debris



Baden in the larger Banks Marine barge ready to unload, even found the kitchen sink!



Good load in the skip bin, plenty of glass.

Asha from Banks Marine steering her group home

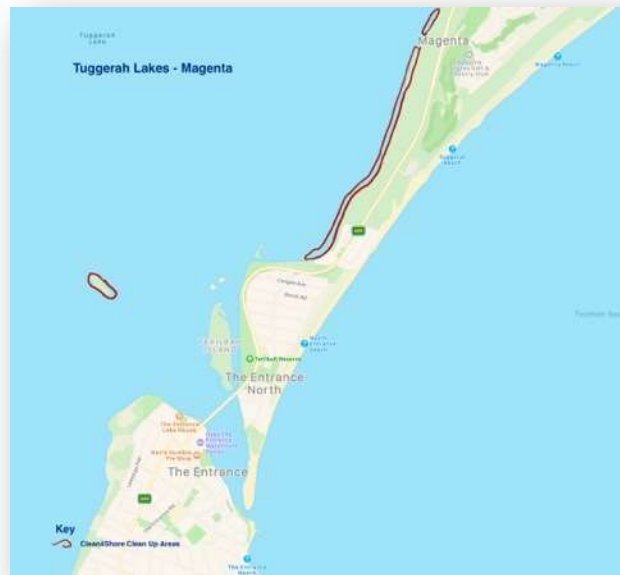


Good load on the barge following a return trip.

Head found in the mangroves, caused a stir.

## Tuggerah Lakes and Lower Lake Macquarie Summary

### Tuggerah Lakes (Magenta)



Flooding in the major tributaries flowing into the Tuggerah Lakes System was significant during March and July with the first Clean4shore survey engaging Central Coast Council and National Parks. This survey revealed a large increase in the tidal level, yet not the bulk flood debris as experienced in the Hawkesbury River with small litter items visible well above the normal tidal mark. Bulk flood debris possibly proceeded directly “out to sea” or was deposited in the dense vegetation along the Magenta foreshore.

Wyong and St Peters High schools commenced the four field trips in September together with community members to monitor and remove litter along the Magenta foreshore from North Entrance towards Toukley.

Increased rain over the past two years has seen a rapid growth of vegetation, mostly introduced buffalo grass with invasive lantana and bitou bush now covering the heavier items washed ashore. Plastic bottles were often found “under the foot” rather than by sight. The Clean4shore “ball challenge” was on in earnest as each field trip collected bulk amounts of rubber balls, 805 in total, indicating ‘gutter rubbish’ from the residential zones.

Plastics were dominant with statistics suggesting 2200 plastic bottles, 2713 pieces of soft plastic, 1339 pieces of hard plastics and 952 pieces of food wrapping. 20 car tyres fridges, jetty material among the larger items collected.

The barge was able to access most of the one kilometre of shallow tidal foreshore targeted with further field trips required in 2023. The presence of a bush regeneration group utilising the Clean4shore barge would address part of the weed issues within this National Park.

2.740 tonne was removed from four completed field trips on the Magenta foreshore of Tuggerah Lakes.



## Lower Lake Macquarie



Lakes College Tuggerah’s “Youth off the Streets’ program completed three successful field trips with the purpose of promoting positive community awareness, challenge, team building for the participating students, together with the positive environmental impact that the Clean4shore program delivers.

Four kilometres of foreshore was “walked” by the students on the Point Wolstencroft headland gathering soft and hard plastics with an alarming number of beer bottles found above the tidal mark, deposited through poor recreational practices.

Crangan Bay, now being developed as a housing estate, again had discarded camping equipment and rubbish with two derelict vessels towed back to the ramp for loading and disposal.

Summerland Point had small litter items towards Point Wolstencroft with local intervention maintaining this foreshore. An alert for assistance by a salvage contractor had the eager team off to Pulbah Island removing bulk small items from an old timber cruiser in danger of sinking. Lower Lake Macquarie was not greatly impacted by the two major flood events during 2022. Local community social media pages supports Clean4shore’s field trips within this pristine section of waterway.

The Lakes College student were highly proactive and enjoyed the field trip being well supported by the supervising teachers. Clean4shore field trips will continue in 2023 with increased inquiry from local additional Tuggerah based high schools.



Crangan Bay at Gwandalan. Students keen to remove skiff from the mangroves

Tuggerah Lakes Lower Lake Macquarie Field trips 2022					
Date	Group	Site	Weight Tonne	Volunteers	Total hours
14/03/22	Youth off the Streets	Summerland Point	.160	5	15
21/03/22	Youth off the Streets	Crangan Bay	.220	7	28
23/04/22	Clean4shore Survey	Tuggerah Lakes			
25/05/22	Youth off the Streets	Summerland Creek	.340	10	30
23/08/22	Central Coast Council	Tuggerah Survey		4	12
24/08/22	Youth off the Streets	Gwandalan	.140	5	12
05/09/22	Wyong High School	Magenta	.460	13	39
06/09/22	Community	Magenta	.740	2	8
14/09/22	St Peters College	Magenta	.720	8	32
20/09/22	Community	Magenta	.820	4	12
<b>10 Field Trips</b>			<b>3.600</b>	<b>58</b>	<b>188</b>



The derelict vessel on Pulbah Island with the salvage contractor advising Clean4Shore on removal.



Clean4Shore's famous healthy lunches provides the opportunity for a debrief and general discussion on issues relating to the morning's field trip, together with promoting a healthy eating options.

## Scuba Gym Underwater Diving

Clean4shore's chance meeting with Scuba Gym's owner, Lyndi Leggett, highlighted the need for litter and general rubbish to be removed from beneath the busy jetties within Brisbane Waters. Central Coast Council agreed to the commencement of the program with Lyndi securing volunteer scuba divers keen for a challenge and a chance to clean-up the environment their recreational sport enjoys.

The jetties at Ettalong and Woy Woy were first targeted with staggering results as shopping trollies, bikes, scooters, household items, fishing rods and masses of entangled fishing line collected.

840 kilos were removed through this program funded under the Federal Governments Environments Restoration Fund, managed through Central Coast Council, and coordinated by Lyndi through the Clean4shore program.

With the Environment Restoration Fund grant concluding in March 2023, this worthwhile program requires a "stand alone" grant to ensure field trips continue in 2023.

Scuba Gym Underwater Diving Field trips 2022					
Date	Group	Site	Weight Tonne	Volunteers	Total hours
25/08/22	Community Divers	Woy Woy Jetty	.340	5	15
11/11/22	Community Divers	Ettalong Jetty	.200	4	12
09/12/22	Community Divers	Ettalong Jetty	.300	4	12
<b>3 Field Trips</b>			<b>.840</b>	<b>13</b>	<b>39</b>





## **Floating Landcare**

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### **Bouddi Bushcare**

Invasive weed removal through the Clean4shore program, meets the guidelines set out within the Federal Government's Environment Restoration Fund allowing our Central Coast Councils Landcare and National Parks Bushcare programs to operate.

The Clean4shore barge transfers these volunteers to more isolated location completing 15 much needed revegetation tasks.

National Parks volunteers completed bush regeneration tasks at Pelican and Rileys Island within Brisbane waters, plus a more demanding trip to Lobster Beach tackling lantana, bitou bush and cape ivy on the steep headlands of Bouddi National Parks.

Many thanks to coordinating National Parks Ranger, Vicki Elliot for safely coordinating seven field trips attended by the Bouddi Bushcare volunteers. Simon and Damo provided the safe transportation of the volunteers on the Clean4shore barge.

Additional funding is required to continue this program in 2023 following the conclusion of the current Environment Restoration Fund Grant.

### **Central Coast Council Bushcare**

Central Coast Council (Estuary Management & Landcare) teamed up with Clean4shore to create the Floating Landcare program which is aimed at targeting wetlands throughout the Central Coast LGA that are only accessible via the barge.

Funded initially through the Australian Government's Environment Restoration Fund (ERF) Floating Landcare completed monthly field trips attended by volunteers participating in bush regeneration at remote wetland sites throughout Brisbane Waters.

Central Coast Council secured funding from NSW DPI Fisheries Recreational Fishing Trust's "Habitat Action Grant Program" allowing a continuance of the program.

Nine field trips were completed at Narara Creek restoring over 6,600m<sup>2</sup> of wetland including Coastal Saltmarsh, Swamp Oak Forest and Swamp Sclerophyll Forest.

The 108 volunteers included Environmental Science Students from the University of Newcastle, with a total of 452 volunteers hours completed.

The program also planted a variety of local provenance plants, grown by Central Coast Council at the Erina Depot Nursery, to improve habitat value and reinstate some biodiversity where large areas of weeds have been removed.

This program has secured funding to continue the program throughout 2023 and is well coordinated by Central Coast Councils Senior Estuary Officer Ben Cuerel.

Floating Landcare Field trips 2022					
Date	Group	Site	Weight Tonne	Volunteers	Total hours
02/02/22	Central Coast Council	Narara Creek		9	27
17/03/22	Central Coast Council	Narara Creek		10	40
23/03/22	Nat Parks Bouddi Bushcare	Riley's Island		8	16
06/04/22	Central Coast Council	Narara Creek		9	36
27/04/22	Nat Parks Bouddi Bushcare	Lobster Beach		10	40
04/05/22	Nat Parks Bouddi Bushcare	Lobster Beach		8	32
01/06/22	Central Coast Council	Narara Creek		9	36
15/06/22	Nat Parks Bouddi Bushcare	Riley's Island		12	36
30/06/22	Central Coast Council	Narara Creek		8	32
24/08/22	Central Coast Council	Narara Creek		10	40
31/08/22	Central Coast Council	Narara Creek		11	44
14/09/22	Nat Parks Bouddi Bushcare	Pelican Island		10	40
21/09/22	Central Coast Council	Narara Creek		12	48
12/10/22	Nat Parks Bouddi Bushcare	Riley's Island		10	40
14/12/22	Nat Parks Bouddi Bushcare	Riley's Island		8	32
<b>15 Field Trips</b>				<b>90</b>	<b>593</b>



## Issues of Concern 2022

### Hawkesbury River Polystyrene

The devastation of the 2021/22 floods presented Clean4shore with a serious issue of concern as “slabs” of polystyrene floated down the river. These were easily spotted with seagulls enjoying a floating perch, and a scenic trip downstream. Damaged caravans and refrigerated cool room and trailers were the source, thrust into the river by floodwater. The polystyrene was compressed between two layers of aluminium fabrication which later broke apart leaving the polystyrene vulnerable to breaking up into smaller pieces. This occurred very quickly as field trip report data was dominated by polystyrene. Lion Island at the mouth of the Hawkesbury River resembled a “snow clad beach” with thousands of pieces of polystyrene thick behind tidal rocks. The foreshores from Spencer to Patonga had a gradual decline of visible polystyrene, yet a major increase in smaller hand sized piece, consistent every metre along the eight kilometres of foreshore. The urgency to ban polystyrene from packaging and industrial usage can be highlighted by the effects and volumes found on the foreshores of the Hawkesbury River.



Lion Island and Hawkesbury River polystyrene all deposited following the 2022 floods



Fergie on top of Hawkesbury River Polystyrene



Refrigeration slabs the source of the polystyrene

## Derelict Vessels

The presence of sunken, partially sunken, or derelict vessels maintained as “bouy keepers” has frustrated Clean4shore since our operations began in 2010. It appears a simple process, are they registered or owned, if not get them off the water, if registered are they seaworthy?

Unfortunately, it is not that simple as Maritime struggles with an overloaded daily timetable and regulations that often has a boat sink before it can be moved, resulting in a more expensive disposal process. Clean4shore seeks clarification from Maritime, where necessary prior to moving a vessel, yet it is local information that determines if a vessel is good to have a final trip to the tip. Student and community volunteers consistently removing marine ply and floating parts from sunken vessel, especially in the Hawkesbury River near Brooklyn.

In total 31 fibreglass vessels were removed from Brisbane Waters and the Hawkesbury River during 2022, plus 6 rubber inflatable vessels. Apart from the effects of decaying fibreglass and marine ply on or under the tidal foreshore, the visual appearance of our waterways without these ugly craft is much more appealing.



## Sub Contractors that assisted Clean4Shore in 2022



Contractors left to right;  
Mitchell, Banks Marine,  
Ben Cuerel, Central Coast  
Estuary officer, Lyndi  
Leggett – Scuba Gym.



Contractors left to right;  
Mitchell, Banks Marine,  
Adam.

Below left: Damo

Below Right:  
Lauren Bullard, Hunter  
Local Land Service  
Volunteer Co-ordinator



## Statistics: Clean4shore Total Items Collected 2022

Smaller Collected Items	Hawkesbury River	Brisbane Waters	Hunter River	Tuggerah Lower Lake Macquarie	Total
<b>Plastic Items</b>					
Cigarette butts & filters	0	31	0	0	31
Cigarette lighters	668	694	56	115	1533
Plastic pens, markers etc.	308	440	20	81	849
Plastic straws, cups, plates	675	709	13	162	1559
Plastic Toothbrushes, combs	51	83	0	31	165
Plastic toys, ribbons, clips	2772	2320	137	540	5769
Plastic bleach & cleaner bottles	706	224	33	80	1043
Plastic lids & tops, pump spray	1138	1238	121	328	2825
Personal care & packaging	31	17	2	28	78
Plastic bags complete	98	100	0	25	223
Plastic containers: oil, chemical	664	189	27	70	950
Plastic drink bottles	10425	5401	711	2491	19028
Plastic packaging food	1855	5372	187	1082	8496
Plastic wrap non food	297	232	18	90	637
Strapping band scraps	146	79	16	25	266
Strapping band whole	11	1	0	0	12
Plastic bait & tackle bags	662	491	43	142	1338
Plastic bait containers & lids	708	297	45	93	1143
Commercial fishing	68	38	4	1	111
Cylume glow sticks	0	0	0	0	0
Fishing line in metres	94	107	5	48	254
Fishing items (lures, floats, rods)	336	177	17	53	583
Rope & net less than 1 metre	324	164	13	57	558
Rope plus metres	43	66	0	43	152
Plastic bits & pieces hard & solid	9671	6102	536	1542	17851
Plastic soft bits bag & wrap	6134	7382	717	3215	17448
Remnants burnt plastic	2811	1464	129	447	4851
<b>Polystyrene Items</b>					
Foam Buoys	192	49	6	25	272
Foam cups , food & trays	971	370	36	160	1537
Polystyrene insulation pieces	25465	7505	542	994	34506
<b>Other Materials</b>					
Oil globules and tar balls	0	0	0	0	0
Sanitary (nappies etc.)	8	21	0	36	65
Shoes leather and fabric	283	109	14	48	454



<b>Glass &amp; Ceramic Items</b>					
Fluorescent tubes and bulbs	28	31	0	7	66
Glass beer bottles	620	404	421	829	2274
Glass jars	103	101	21	38	263
Glass or ceramic broken	728	355	35	540	1658
Glass wine spirit bottles	617	378	500	224	1719
<b>Cloth Items</b>					
Binding , string & cord normal	247	132	9	50	438
Cloth, clothing, hats towel	360	193	19	78	650
<b>Metal Items</b>					
Aerosol Cans	247	145	5	30	427
Aluminium cans	1486	771	47	251	2555
Foil wrapping , bladders/ alfoil	70	51	7	37	165
Metal bottle caps	0	0	0	0	0
Metal fishing items	40	16	0	9	65
Tins (under 4 litres)	182	68	2	14	266
<b>Paper Items</b>					
Newspaper, magazines	33	71	0	3	107
Paper and cardboard packaging	53	68	0	18	139
Telstra packs and drink cartons	31	31	0	4	66
<b>Rubber Items</b>					
Rubber balloons, balls and toys	4157	3153	88	921	8319
Rubber footwear and thongs	1230	532	82	183	2027
Rubber remnants	2848	1105	127	343	4423
<b>Wood Items</b>					
Brooms, brushes	121	20	0	0	141
Processed timber small	1250	410	33	133	1826
Wood sticks, pencils, matches	0	0	0	0	0
<b>Total Smaller Items</b>	<b>82,069</b>	<b>49,507</b>	<b>4,834</b>	<b>15,764</b>	<b>152,174</b>

<b>Plus: Additional Larger &amp; Commercial Items Collected in 2022</b>					
<b>Larger Collected Items</b>	<b>Hawkesbury River</b>	<b>Brisbane Waters</b>	<b>Hunter River</b>	<b>Tuggerah Macquarie</b>	<b>Total</b>
Pontoons (concrete polystyrene)	3	1	0	0	4
Oyster plastic (trays, baskets)	63	95	0	0	158
Oyster plastic mesh pieces	0	26	0	0	26
Nylon: Shade Cloth, Tarpaulins, Marque	2	14	4	0	19
Car / Truck Tyres	229	82	17	23,	351
Boats complete fibreglass	15	11	2	3,	31
Boat inflatable rubber	5	1	0	0	6
Boating Parts (marine ply)	156	40	6	30	232
Boating Parts: Seating,	25	2	0	0	27
Boating: metal outboard motor	1	1	0	0	2
Fibreglass: surfboard, ski, spas , roofing	31	6	0	0	37
Foam: boogie, seating, eskis, mats	4	1	0	3	8
Aluminium boat "Tinny"	1	1	0	0	2
Metal: steel, drums, roof, trolley, tank, kegs, roofing, signs, bikes, gas bottles	102	310	2	7	441
Metal: fridges whitegoods, heater	29	5	2	1	34
Metal Crab traps	4	9	0	5	18
Metal marine outboard motor	1	1	0	0	2
Plastic Canoe / road barrier/sailboard	7	0	1	0	8
Plastic: ,pipe, drums, crates, buckets, signage, chairs, furniture, planter	957	141	26	38	1162
Plastic large: buoys, bins, drums, pipe	171	25	12	1	209
Plastic sheeting, pools	10	2	1	1	14
Plastic large water tanks: 1000 litre plus	20	1	0	0	21
Plastic water pipe (metres)	430	7	0	0	437
Furniture: mattress, lounges, chairs,	31	16	1	0	48
Foam: bean bag, mats, cushions, bag	19	18	3	1	41
Polystyrene large: food boxes	56	2	3	8	69
Polystyrene / Aluminium fabrication	225	3	0	0	228
Carpet marine / household	2	2	0	9	11
Marine/Car batteries	5	0	0	0	5
Timber: furniture, pallet, building	104	25	4	4	135
Treated pine logs	117	33	4	23	177
Outdoor: camping, bedding, tents	5	10	0	6	21
Solar Panels	5	0	0	0	5
<b>Larger Items Total</b>	<b>2,835</b>	<b>891</b>	<b>88</b>	<b>54</b>	<b>3,868</b>
<b>Plus Smaller Items Collected</b>	<b>82,069</b>	<b>49,507</b>	<b>4,834</b>	<b>15,764</b>	<b>152,174</b>
<b>Total Items Collected in 2022</b>	<b>84,904</b>	<b>50,398</b>	<b>4,922</b>	<b>15,818</b>	<b>156,042</b>



## Moving Forward 2022

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Clean4shore's secured financial grant support from the Federal Government, over the past six years, concludes in March 2023. The defeat of the Liberal Party Government in the 2022 election and the reluctance of the incoming Labour Party Government to honour the previous governments funding electoral commitments, including Clean4shore's, presents a major challenge to the viability of the program past the March 2023 grant completion date.

Clean4shore submitted grants in October 2022, with grant outcomes to be announced in early 2023. These grants are essential to allow the commencement of the Clean4shore and school program in term one of 2023. Failure to secure these grants will require urgent negotiations to secure funding from stakeholders including the State Government, Hornsby Shire and Central Coast Councils to allow the Clean4shore program to continue operating.

With a State Government Election in March 2023 both major political parties will be encouraged to support the continuance of the Clean4shore program, and the benefits delivered to the environment and the participating volunteers. Clean4shore will need to positively engage both Federal and State politicians whose electorates are within the programs boundaries.

The removal of Covid 19 restrictions has greatly enhanced the participation levels of all schools and organisations as demonstrated by the record 139 field trips completed in 2022 with further progress expected in 2023.

Clean4shore's immediate action to remove flood debris will continue, in conjunction with EPA contractor Avcon, especially in the Hawkesbury River. Clean4shore's presence in the Hunter River and Lower Lake Macquarie was reduced by our presence in the flood zones of the Hawkesbury River with a resumption of these programs and support from Hunter Local Land Services assured in 2023.

Clean4shore's support for weed eradication through the Floating Landcare program will continue. Central Coast Council and National Parks have provided volunteers keen to travel to more remote sites in the Clean4shore barge to address weed issues. The involvement of TAFE students through the Central Coast Council program highlights the value of a joint funded program to deliver positive outcomes for the environment. Central Coast Council have assured continued funding for this monthly program during 2023.

The outstanding benefits of the volunteer scuba divers, utilising the program under the coordination of Lyndi Leggett, will also continue and expand into the Tuggerah Lakes System during 2023, subject to available grant funding. Clean4shore's equipment, including the barge, trailers and PPE have all received partial upgrades in 2022 with a replacement of the car trailer urgently required in 2023. Wetsuits will require replacement in 2023.

From Simon, myself and the entire Clean4shore committee plus supporting stakeholders, 2023 is looming with huge challenges, mostly financial, yet with Covid 19 and hopefully flooding now behind us, normal environmental and educational outcomes can continue to be achieved.

Graham Johnston  
Clean4shore



“Everyone needs to be thanked!”



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