DAFTAR PUSTAKA

Abdullah A, Nurjanah, Hidayat T, Yusefi V, 2013. Profil Asam Amino dan Asam Lemak Kerang Bulu (Anadara antiquata). JPHPI vol. 16 eds. 2:159-163.

Alwi D., Iswandi W., & Ilham B. 2020. Komposisi Dan Kelimpahan Bivalvia Di Ekosistem Lamun Perairan Juanga Kabupaten Pulau Morotai Provinsi Maluku Utara. Jurnal Laot Ilmu Kelautan, vol 2 no.1: 31-48.

Ayuningtyas WC,Yona D, Julinda SH, Iranawati F. 2019. Kelimpahan mikroplastik pada perairan di Banyuurip, Gresik, Jawa Timur. *J Fis Mar Res.* 3(1) : 41-45.

Azizah, P., Ridlo, A., Suryono, C.A. 2020. Mikroplasik pada Sedimen di Pantai Kartini Kabupaten Jepara, Jawa Tengah. Journal of Marine Research. Vol. 9, No. 3. Bakir. A , Rowland S. J., Thompson R. C. 2014. *Environ.Pollut.* 185, 16 (2014).

Barnes, D. K. A., Galgani, F., Thompson, R. C., & Barlaz, M. (2009). Accumulation and fragmentation of plastic debris in global environments. *Philosophical Transactions of the Royal Society B: Biological Sciences*, *364*(1526), 1985–1998. https://doi.org/10.1098/rstb.2008.0205.

Beesley, Pamela & Graham BJB Ross, A. Wells. 1998, Mollusca the Southern Synthesis. Csiko Publishing. Australia.

Besseling, E, Foekema, E.M, Heuvel Greve , M.Jdenvan, & Koelmans, A.A. (2017). The effect of microplastic on the uptake of chemicals by the lugworm arenicola marina (L) under environmentally relevant exposure conditions. Environ. Sci. Technol. Vol 1 eds. 5.

Boskovic, N., Joksimovic, D., Perosevic-Bajceta, A., Pekovic, M., & Bajt, 0. (2022). Distribution and Characterization of Microplastics in Marine Sediments from the Montenegrin Coast. Journal of Soils and Sediments.

Browne, M. A., Crump, P., Niven, S. J., Teuten, E., Tonkin, A., Galloway, T., & Thompson, R. 2011. Accumulation of microplastic on shorelines woldwide : sources and sinks. *Environmental Science & Technology*, 45: 9175–9179. https:// doi.org/10.1021/es201811s.

Browne, M. A. 2015. Sources and Pathways of Microplastics to Habitats. Marine Anthropogenic Litter. Springer International Publishing, vol 4 no.3.

Campbell, N. A., dan J. B. Reece. 2008. Biologi Edisi ke 8 Jilid 1. (diterjemahkan dari Biology Eighth Edition, penerjemah: D.T. Wulandari). Penerbit Erlangga. Jakarta. 486 hal.

Cauwenberghe,L.V. & C.R. Janssen. 2014. Microplastic in bivalves cultured for humar consumption. Environmental Pollution. 193: 65-70.

Claessens, M., De Meester, S., Van Landuyt, L., De Clerck, K. & Janssen, C.R., 2011. Occurence and Distribution of Microplastics in Marine Sedimens Along the Belgian coast. Marine Pollution Bulletin. 62(10):2199-2204

Cole, M., Lindeque, P ., Fileman, E., Halsband, C., Goodhead, R., Moger, J., & Galloway, T. S. (2013). Microplastic ingestion by zooplankton. *Environmental Science and Technology*, *47*(12), 6646–6655.

Critchell, K. & M.O. Hoogenboom. 2018. Effects of microplastic exposure on the body condition and behavior of planktivorous reef fish (Acanthochromis polyacanthus). PLoS One, 13(3): 1–19. https://doi.org/10.1371/journal.pone.0 193308

Effendi I. 1997. Biologi Perikanan. Jakarta : Yayasan Pustaka Nusatama.

Fabra, M., Williams, L., Watts, J. E. M., Hale, M. S., Couceiro, F., & Preston, J. (2021). The Plastic Trojan Horse: Biofilms Increase Microplastic Uptake In Marine Filter Feeders Impacting Microbial Transfer and Organism Health. Science of the Total Environment, 797. https://doi.org/10.1016/j.scitotenv.2021.149217.

Fendall, L.S. and Sewell, M.A., 2009, Contributing to Marine Pollution by Washing Your Face: microplastics in facial cleansers, J. Mar. Pollut. Bull., 58(8): 1225–1228

Gago, J., Carretero, O., Filgueiras, A. V, & Viñas, L. (2018). Synthetic Microfibers in the Marine Environment: A Review on their Occurence in Seawater and Sediments. ~~127, 365-376.~~ https://doi.org/10.1016/j.marpolbul.2017.11.070

Goldstein, M. C., & D. S Goodwin. 2013. Gooseneck Barnacles (Lepas Spp.) Ingest Microplastic Debris In The North Pacific Subtropical Gyre. PeerJ, I, e184.

Hamra, A. J. Al. 2020. *Mikroplastik pada Kerang Bulu Anadara antiquata (Linnaeus,1758) dan Siput Gonggong Strombus turturella (Röding,1798) di Pesisir Pulau Bintan, Kepulauan Riau.* (Tesis). Universitas Indonesia.

Hidalgo-Ruz, V., Gutow, L., Thompson, R. C., & Thiel, M. (2012). Microplastics in The Marine Environment: A review of The Methods Used for Identification and and Quantification. Environmental Science and Technology, 46 (6): 3060-3075. https://doi.org/10.1021/es2031505

Jumarni, 2020. Kelimpahan Dan Karakteristik Mikroplastik Pada Kerang Darah (*Anadara granosa*) Dan Perairan Di Sekitar Maccini Baji, Kabupaten Pangkajene Dan Kepulauan. (Skripsi). Program Studi Iimu Kelautan, Fakultas Ilmu Kelautan Dan Perikanan, Universitas Hasanuddin, Makassar.

Joesidawati, M. I. (2018). Pencemaran mikroplastik di sepanjang pantai kabupaten Tuban. *Seminar Nasional Hasil Penelitian Dan Pengabdian Masyarakat 3*, (September), 7–15.

Lahnsteiner, F., Berger, B., Kletzl, M. and Weismann, T., 2005. Effect of bisphenol A on maturation and quality of semen and eggs in the brown trout, Salmo trutta f. fario. Aquatic Toxicology, 75(3), pp.213-224.

Lewis PA. (2004). Organic colorants. Di dalam: Chavart RA, editor. Coloring of Plastic: Fundamental. New Jersey (NJ): John Wiley & Sons Inc. hlm 100-126.

Li, Y., Lu, Z., Zheng, H., Wang, J., & Chen, C. (2020). Microplastics in Surface Water and Sediments of Chongming Island in the Yangtze Estuary, China. Environmental Sciences Europe, 32(15), 1-12. https://doi.org/10.1186/s12302-020-0297-7.

Lusher, A., P. Hollman & J. Mendoza-Hill. 2017. Microplastics in fisheries and aquaculture: status of knowledge on their occurrence and implications for aquatic organisms and food safety. Food and Agriculture Organization of the United Nations, Rome: xvii + 126 hlm.

Lusher, A.L, Burke, A, O'Connor, I, & Officer, R. (2015). Microplastics and macroplastics ingestion by a deep diving, oceanic cetacean: The True's beaked whale Mesoplodon Mirus. Environ. Pollut.

Mauludy, M. S., Yunanto, A., & Yona, D. (2019). Microplastic Abundances in the Sediment of Coastal Beaches in Badung, Bali. Jurnal Perikanan Universitas Gadjah Mada, 21(2), 73-78. https://doi.org/10.22146/jfs.45871.

Mathalon A, Hill P. 2014. Microplastic fibers in the intertidal ecosystem surrounding Halifax Harbor, Nova Scotia. *Mar Pollut Bull*. 81: 69-79.

Mu, J., Zhang, S., Qu, L., Jin, F., Fang, C., Ma, X., Zhang, W., & Wang, J. (2019). Microplastics Abundance and Characteristics in Surface Waters from the Northwest Pacific, the Bering Sea, and the Chukchi Sea. Marine Pollution Bulletin, 58-65 vol 1. https://doi.org/10.1016/j.marpolbul.2019.04.023.

Patikawa, J.A. 2007. Pertumbuhan Kerang Bulu (*Anadara antiquata*) Di Perairan Pantai Passo, Teluk Ambon, Maluku. IJMS Ilmu Kelautan, 12(4): 181-186.

Pranata, A. (2020). Kelimpahan dan Karakteristik Mikroplastik Pada Kerang (Anadara antiqulata, Marcia hiantina, Macoma nasuta) di Perairan Biringkassi Kabupaten Pangkep. (Skripsi). Jurusan Ilmu Kelautan.

Pinto, C., Hao, R., Grimaldi, M., Thrikawala, S., Boulahtouf, A., Ait-Aissa, S., Brion, F., Gustafsson, J.Å., Balaguer, P. and Bondesson, M., 2019. Differential activity of BPA, BPAF and BPC on zebrafish estrogen receptors in vitro and in vivo. Toxicology and applied pharmacology, 380, p.114709.

Rachmadani, A.A.J., Mahmiah, & Nirmalasari I.W. 2021. Identifikasi Mikroplastik Pada Kerang Hijau (*Perna viridis*) Dan Sedimen Di Perairan Kenjeran. (Skripsi). Fakultas Teknik dan Ilmu Kelautan, Universitas Hang Tuah, Surabaya.

Rahmaddani, D. M. 2021. Identifikasi kelimpahan mikroplastik pada kerang hijau (*Perna viridis*) dan hubungannya dengan panjang kerang. (Skripsi). Institut Pertanian Bogor, Bogor.

Rati, 2022. Hubungan Panjang Kerang Hijau *Perna viridis* (Linnaeus, 1758) dengan Komposisi dan Kelimpahan Mikroplastik di Perairan Maccini Baji, Pangkajene dan Kepulauan. (Skripsi). Program Studi Iimu Kelautan, Fakultas Ilmu Kelautan Dan Perikanan, Universitas Hasanuddin, Makassar.

Rochman C. M., Tahir A., Williams S. L., Baxa D. V., Lam R., Miller J. T., Teh F. C., Werorilangi S., Teh S. J., 2015 Anthropogenic debris in seafood: Plastic debris and fibers from textiles in fish and bivalves sold for human consumption. Scientific Reports 5:14340, 10 p.

Saputri, D.F.I. 2020. Depurasi Mikroplastik Pada Kerang Tude (Asaphis Detlorata) di Muara Sungai Lakatong Kabupaten Takalar, Sulawesi Selatan. Tesis. Makassar.

Sawalman, R., Zamani, N. P., Werorilangi, S., & Ismet, M. S. 2021. Akumulasi Mikroplastik pada spesies ikan ekonomis penting di perairan Pulau Barranglompo, Makassar. *Jurnal Ilmu Dan Teknologi Kelautan Tropis*, 13(2): 241–259. https://doi.org/10.29244/jitkt.v13i2.34587.

Sunaryo, D. 2022. Social Entrepreneur: Pengolahan Limbah Cangkang Kerang Hijau Menjadi Aksesoris Figura Cangkang Kerang. Jurnal Pengabdian Masyarakat Indonesia (JPMI), 1(2): 1-13.

Suwignyo S, Bambang W, Yusli W, dan Majarianti K.2002. Avertebrata Air Jilid 1. Jakarta : Penebar Swadaya.

Ukhrowi, H. R., Wardhana, W., & Patria, M. P. 2021. Microplastic abundance in blood cockle *Anadara granosa* (Linnaeus, 1758) at Lada Bay, Pandeglang, Banten. *Journal of Physics*. https://doi.org/10.1088/1742-6596/1725/1/012053

Wahdani, A., Khusnul Y., Nita R., Suwarni, Nadiarti, Dwi F.I., & Liestiaty F. 2020. Konsentrasi Mikroplastik Pada Kerang Manila *Venerupis Philippinarum* Di Perairan Maccini Baji, Kecamatan Labakkang, Kabupaten Pangkajen Kepulauan, Sulawesi Selatan. Maspari Journal, 12(2): 1-13.

Weinstein, J. E., Crocker, B. K., & Gray, A. D. (2016). From macroplastic to microplastic: degradation of high-density polyethylene, polypropylene, and polystyrene in a salt marsh habitat. Environmental Toxicology and Chemistry, 35(7), 1632–1640. https://doi.org/10.1002/etc.3432

Wright, S.L, & Kelly, F.J. (2017). Plastic and human health: a micro issue? . Environ. Sci. Technol. 58-65 vol 3.

Wulandari, S.Y., Ocky K.R., Bambang Y.,& Bayu M. 2022. Pengaruh Musim dan Pasang Surut Terhadap Konsentrasi Mikroplastik di Perairan Delta Sungai Wulan, Kabupaten Demak. Buletin Oseanografi Marina, 11(2): 215–220.

Yuliani, S., Ramli, N., Mangunwidjaja, D., Hambali, E., Setyaningsih, D Nazir, N., & Salimon, J. (2009). Extraction, transesterification and process control in biodiesel production from Jatropha curcas. *European Journal of Lipid Science and Technology*, *111*(12), 1185-120

LAMPIRAN

Lampiran 1. Morfometrik Kerang Bulu (*Anadara antiquata*) pada ukuran <3 cm.

Kelompok Ukuran Panjang > 3 Cm						
No	**Kode**	**Panjang (cm)**	**Berat Daging (g)**	**Berat Total (g)**	**Tinggi**	**Lebar**
1	A1	2,91	1,27	7,03	2,06	1,31
2	A2	2,55	0,65	4,86	1,61	1,24
3	A3	2,92	1,14	6,52	1,92	1,41
4	A4	2,77	0,71	6,31	1,81	1,38
5	A5	2,11	0,24	2,69	1,38	0,99
6	A6	2,25	0,47	3,43	1,44	1,17
7	A7	2,54	0,57	4,11	1,42	1,17
8	A8	2,54	0,61	3,58	1,54	1,16
9	A9	2,56	0,55	4,92	1,74	1,14
10	A10	2,7	0,73	4,27	1,54	1,19
11	A11	2,7	1,04	6,3	1,70	1,38
12	A12	2,41	0,66	3,96	1,51	1,16
13	A13	2,83	1,08	6,87	2,17	1,46
14	A14	2,72	0,69	6,88	2,14	1,35
15	A15	2,53	1,03	4,26	1,64	1,13
16	A16	2,84	0,65	4,33	1,75	1,25
17	A17	2,54	0,6	3,59	1,68	1,12
18	A18	2,45	0,69	3,97	1,57	1,14
19	A19	2,57	0,73	3,77	1,63	1,17
20	A20	2,35	0,55	3,42	1,55	1,22
Rata-rata		2,59	0,73	4,75	1,69	1,23

Lampiran 2. Morfometrik Kerang Bulu (*Anadara antiquata*) pada ukuran 3 – 5 cm.

Kelompok Ukuran Panjang 3 - 5 cm						
No	**Kode**	**Panjang (cm)**	**Berat Daging (g)**	**Berat Total (g)**	**Tinngi**	**Lebar**
1	B1	4,15	1,24	15,11	2,55	2,45
2	B2	4,34	2,08	17,67	2,84	2,62
3	B3	4,34	2,76	15,83	2,85	2,35
4	B4	4,36	3,95	21,47	3,07	2,88
5	B5	4,31	2,61	21,37	2,83	2,31
6	B6	4,24	2,78	17,38	2,41	2,24
7	B7	4,37	2,84	18,12	2,88	2,11
8	B8	4,04	3,16	15,9	2,89	2,41
9	B9	4,33	3,65	16,84	2,84	2,65
10	B10	3,92	2,1	10,36	2,61	2,15
11	B11	4,28	3,13	14,54	2,88	2,41
12	B12	4,13	3,34	20,02	2,42	2,43
13	B13	4,21	2,37	12,88	2,65	2,26
14	B14	4,17	2,28	13,05	2,78	2,03
15	B15	4,15	2,92	13,51	2,78	2,21
16	B16	4,21	3,03	15,53	3,07	2,47
17	B17	4,42	3,39	16,27	2,91	2,46
18	B18	4,44	3,3	16,96	2,88	2,44
19	B19	4,43	3,94	17,16	2,81	2,41
20	B20	4,48	3,89	20,65	2,91	2,68
Rata-rata		4,27	2,94	16,53	2,79	2,40

Lampiran 3. Morfometrik Kerang Bulu (*Anadara antiquata*) pada ukuran 5- 8 cm

Kelompok Ukuran Panjang 5 - 8 Cm						
No	**Kode**	**Panjang (cm)**	**Berat Daging (g)**	**Berat Total (g)**	**Tinggi**	**Lebar**
1	C1	5,16	4,57	40,41	3,29	2,87
2	C2	5,15	4,45	39,11	3,37	2,95
3	C3	5,26	4,78	43,66	3,26	3,05
4	C4	5,01	4,57	38,55	3,26	2,95
5	C5	5,13	4,58	33,2	3,15	2,75
6	C6	5,13	4,48	33,35	3,06	2,64
7	C7	5,15	3,47	21,36	3,06	2,55
8	C8	5,01	4,52	26,36	3,26	2,64
9	C9	5,21	4,76	35,44	3,36	3,05
10	C10	5,08	3,44	33,67	3,05	2,74
11	C11	5,05	4,10	30,28	3,15	2,64
12	C12	5,16	3,69	27,76	3,05	2,95
13	C13	5,14	4,34	27,84	2,98	2,84
14	C14	5,07	4,32	25,47	3,26	2,74
15	C15	5,01	3,21	19,24	2,99	2,23
16	C16	5,12	2,70	28,66	2,89	2,44
17	C17	5,08	4,18	33,16	3,11	2,80
18	C18	5,11	3,06	27,12	2,86	2,54
19	C19	5,06	4,34	22,3	2,54	2,84
20	C20	5,03	3,36	22,14	3,16	2,54
Rata-rata		5,11	4,05	30,45	3,11	2,74

Lampiran 4. Karakteristik dan Kelimpahan Mikroplastik Kerang Bulu (*Anadara antiquata*) pada ukuran <3 cm.

Kelompok Ukuran Panjang < 3 Cm										
No	Kode Sampel	Bentuk		Warna				∑MPs	Kelimpahan	Perbesaran
		Line	Fragmen	Biru	Benir	Abu-Abu	Merah		Partikel/indv	
1	A1	2	0	2	0	0	0			
2	A2	2	0	1	1	0	0			
3	A3	1	0	1	0	0	0			
4	A4	2	0	2	0	0	0			
5	A5	2	0	2	0	0	0			
6	A6	1	0	1	0	0	0			
7	A7	1	4	1	1	3	0			
8	A8	3	0	3	0	0	0			
9	A9	1	0	1	0	0	0			
10	A10	0	2	0	0	2	0			
11	A11	3	0	2	1	0	0	35	1,75	4,5
12	A12	1	0	1	0	0	0			
13	A13	1	0	0	1	0	0			
14	A14	0	0	0	0	0	0			
15	A15	2	0	2	0	0	0			
16	A16	2	0	1	1	0	0			
17	A17	1	0	0	1	0	0			
18	A18	0	0	0	0	0	0			
19	A19	2	0	2	0	0	0			
20	A20	2	0	1	0	0	1			
	Total	29	6	23	6	5	1			

Lampiran 5. Karakteristik dan Kelimpahan Mikroplastik Kerang Bulu (*Anadara antiquata*) pada ukuran 3 - 5 cm.

Kelompok Ukuran Panjang 3 -5 Cm										
No	Kode Sampel	Bentuk		Warna				∑MPs	Kelimpahan	Perbesaran
		Line	Fragmen	Biru	Bening	Putih	Merah		Partikel/indv	
1	B1	2	1	1	2	0	0			
2	B2	2	2	3	1	0	0			
3	B3	3	0	2	1	0	0			
4	B4	1	0	1	0	0	0			
5	B5	0	0	0	0	0	0			
6	B6	1	1	1	0	1	0			
7	B7	3	0	2	1	0	0			
8	B8	0	0	0	0	0	0			
9	B9	0	0	0	0	0	0			
10	B10	2	0	2	0	0	0			
11	B11	1	1	0	2	0	0	39	1,95	4,5
12	B12	0	0	0	0	0	0			
13	B13	1	0	0	1	0	0			
14	B14	0	1	0	0	0	1			
15	B15	5	0	2	2	0	1			
16	B16	1	0	0	1	0	0			
17	B17	4	0	0	3	0	1			
18	B18	1	0	0	1	0	0			
19	B19	2	1	1	1	0	1			
20	B20	3	0	0	3	0	0			
	Total	32	7	15	19	1	4			

Lampiran 6. Karakteristik dan Kelimpahan Mikroplastik Kerang Bulu (*Anadara antiquata*) pada ukuran 5 – 8 cm.

Kelompok Ukuran Panjang 5 - 8 Cm											
No	Kode Sampel	Bentuk		Warna					∑MPs	Kelimpahan Partikel/indv	Perbesaran
		Line	Fragmen	Biru	Bening	Kuning	Merah	Hitam			
1	C1	4	0	2	1	0	0	0			
2	C2	2	0	0	1	1	0	0			
3	C3	3	0	3	0	0	0	0			
4	C4	2	0	2	0	0	0	0			
5	C5	4	0	3	1	0	0	0			
6	C6	2	0	1	1	0	0	0			
7	C7	3	0	1	2	0	0	0			
8	C8	2	1	3	0	0	0	0			
9	C9	3	0	1	2	0	0	0			
10	C10	2	0	2	0	0	0	0			
11	C11	4	0	3	1	0	0	0	58	2,90	4,5
12	C12	3	0	1	2	0	0	0			
13	C13	1	0	1	0	0	0	0			
14	C14	5	0	1	3	0	1	0			
15	C15	1	0	1	0	0	0	0			
16	C16	2	0	1	1	0	0	0			
17	C17	2	0	1	1	0	0	0			
18	C18	4	0	1	3	0	0	0			
19	C19	2	0	1	0	0	0	1			
20	C20	6	0	4	2	0	0	0			
	Total	57	1	33	21	1	1	1			

Lampiran 7. Kelimpahan Mikroplastik Kerang Bulu Berdasarkan Berat Daging Pada Ukuran < 3 cm.

Kelompok Ukuran Panjang < 3 cm				
No	Kode Sampel	Banyak Partikel Mikroplastik	Berat Sampel (gr)	Kelimpahan (Partikel/gr)
1	A.1	2	1,27	1,575
2	A.2	2	0,65	3,077
3	A.3	1	1,14	0,877
4	A.4	2	0,71	2,817
5	A.5	2	0,24	8,333
6	A.6	1	0,47	2,128
7	A.7	5	0,57	8,772
8	A.8	3	0,61	4,918
9	A.9	1	0,55	1,818
10	A.10	2	0,73	2,740
11	A.11	3	1,04	2,885
12	A.12	1	0,66	1,515
13	A.13	1	1,08	0,926
14	A.14	0	0	0,000
15	A.15	2	1,03	1,942
16	A.16	2	0,65	3,077
17	A.17	1	0,6	1,667
18	A.18	0	0	0,000
19	A.19	2	0,73	2,740
20	A.20	2	0,55	3,636
Rata - rata				2,772

Lampiran 8. Kelimpahan Mikroplastik Kerang Bulu Berdasarkan Berat Daging Pada Ukuran 3 - 5 cm.

No	Kode Sampel	Banyak Partikel Mikroplastik	Berat Sampel (gr)	Kelimpahan (Partikel/gr)
1	B.1	3	1,24	2,419
2	B.2	4	2,08	1,923
3	B.3	3	2,76	1,087
4	B.4	1	3,95	0,253
5	B.5	0	0	0,000
6	B.6	2	2,78	0,719
7	B.7	3	2,84	1,056
8	B.8	0	0	0,000
9	B.9	0	0,00	0,000
10	B.10	2	2,1	0,952
11	B.11	2	3,13	0,639
12	B.12	0	0	0,000
13	B.13	1	2,37	0,422
14	B.14	1	2,28	0,000
15	B.15	5	2,92	1,712
16	B.16	1	3,03	0,330
17	B.17	4	3,39	1,180
18	B.18	1	3,3	0,000
19	B.19	3	3,94	0,761
20	B.20	3	3,89	0,771
Rata - rata				0,711

Lampiran 9. Kelimpahan Mikroplastik Kerang Bulu Berdasarkan Berat Daging Pada Ukuran 5 - 8 cm.

Kelompok Ukuran Panjang 5 - 8 cm				
No	Kode Sampel	Banyak Partikel Mikroplastik	Berat Sampel (gr)	Kelimpahan (Partikel/gr)
1	B.1	4	4,57	0,875
2	B.2	2	4,45	0,449
3	B.3	3	4,78	0,628
4	B.4	2	4,57	0,438
5	B.5	4	4,58	0,000
6	B.6	2	4,48	0,446
7	B.7	3	3,47	0,865
8	B.8	3	4,52	0,000
9	B.9	3	4,76	0,000
10	B.10	2	3,44	0,581
11	B.11	3	4,10	0,732
12	B.12	3	3,69	0,000
13	B.13	1	4,34	0,230
14	B.14	5	4,32	0,000
15	B.15	1	3,21	0,312
16	B.16	2	2,70	0,741
17	B.17	2	4,18	0,478
18	B.18	4	3,06	0,000
19	B.19	2	4,34	0,461
20	B.20	6	3,36	1,786
Rata - Rata				0,451

Lampiran 10. Ukuran partikel mikroplastik pada sampel kerang bulu di ukuran < 3

Kelompok Ukuran Panjang < 3 cm			
No	**Kode Sampel**	**Bentuk**	**Panjang (mm)**
1	A1.1	Line	0,517
2	A1.2	Line	0,157
3	A2.1	Line	1,563
4	A2.2	Line	0,620
5	A3	Line	0,561
6	A4.1	Line	0,224
7	A4.2	Line	0,479
8	A5.1	Line	0,199
9	A5.2	Line	0,725
10	A6	Line	0,266
11	A7.1	Fragmen	1,580
12	A7.2	Fragmen	0,395
13	A7.3	Fragmen	0,459
14	A7.4	Fragmen	0,529
15	A7.5	Line	0,421
16	A8.1	Line	2,107
17	A8.2	Line	1,625
18	A8.3	Line	0,684
19	A9	Line	0,580
20	A10.1	Fragmen	0,443
21	A10.2	Fragmen	0,624
22	A11.1	Line	1,265
23	A11.2	Line	1,460
24	A11.3	Line	0,772
25	A12	Line	0,705
26	A13	Line	0,316
27	A15.1	Line	0,471
28	A15.2	Line	0,667
29	A16.1	Line	0,244
30	A16.2	Line	0,214
31	A17	Line	1,201
32	A19.1	Line	2,261
33	A19.2	Line	0,517
34	A20.1	Line	1,065
35	A20.2	Line	1,992
Rata- rata			0,80

Lampiran 11. Ukuran partikel mikroplastik pada sampel kerang bulu di ukuran 3 – 5 cm.

Kelompok Ukuran Panjang 3 - 5 cm			
No	**Kode Sampel**	**Bentuk**	**Panjang (mm)**
1	B1.1	Fragmen	1,077
2	B1.2	Line	0,961
3	B1.3	Line	0,259
4	B2.1	Fragmen	1,017
5	B2.2	Fragmen	0,053
6	B2.3	Line	0,140
7	B2.4	Line	1,731
8	B3.1	Line	0,588
9	B3.2	Line	0,608
10	B3.3	Line	0,419
11	B4	Line	0,498
12	B6.1	Fragmen	1,303
13	B6.2	Line	0,500
14	B7.1	Line	1,258
15	B7.2	Line	0,66
16	B7.3	Line	1,542
17	B10.1	Line	0,143
18	B10.2	Line	0,067
19	B11.1	Line	0,823
20	B11.2	Fragmen	0,325
21	B13	Line	1,522
22	B14	Fragmen	0,298
23	B15.1	Line	0,786
24	B15.2	Line	0,204
25	B15.3	Line	0,464
26	B15.4	Line	0,967
27	B15.5	Line	0,409
28	B16	Line	1,622
29	B17.1	Line	1,031
30	B17.2	Line	2,031
31	B17.3	Line	0,374
32	B17.4	Line	0,377
33	B18	Line	1,051
34	B19.1	Fragmen	0,110
35	B19.2	Line	0,263
36	B19.3	Line	0,766
37	B20.1	Line	1,199
38	B20.2	Line	0,734
39	B20.3	Line	1,999
Rata-rata			0,77

Lampiran 12. Ukuran partikel mikroplastik pada sampel kerang bulu di ukuran 5 - 8 cm.

Kelompok Ukuran Panjang 3 - 5 cm			
No	**Kode Sampel**	**Bentuk**	**Panjang (mm)**
1	B1.1	Fragmen	1,077
2	B1.2	Line	0,961
3	B1.3	Line	0,259
4	B2.1	Fragmen	1,017
5	B2.2	Fragmen	0,053
6	B2.3	Line	0,140
7	B2.4	Line	1,731
8	B3.1	Line	0,588
9	B3.2	Line	0,608
10	B3.3	Line	0,419
11	B4	Line	0,498
12	B6.1	Fragmen	1,303
13	B6.2	Line	0,500
14	B7.1	Line	1,258
15	B7.2	Line	0,66
16	B7.3	Line	1,542
17	B10.1	Line	0,143
18	B10.2	Line	0,067
19	B11.1	Line	0,823
20	B11.2	Fragmen	0,325
21	B13	Line	1,522
22	B14	Fragmen	0,298
23	B15.1	Line	0,786
24	B15.2	Line	0,204
25	B15.3	Line	0,464
26	B15.4	Line	0,967
27	B15.5	Line	0,409
28	B16	Line	1,622
29	B17.1	Line	1,031
30	B17.2	Line	2,031
31	B17.3	Line	0,374
32	B17.4	Line	0,377
33	B18	Line	1,051
34	B19.1	Fragmen	0,110
35	B19.2	Line	0,263
36	B19.3	Line	0,766
37	B20.1	Line	1,199
38	B20.2	Line	0,734
39	B20.3	Line	1,999
Rata-rata			0,77

Lampiran 13. Karakteristik dan kelimpahan mikroplastik pada sampel air laut

SAMPEL AIR							
No	Kode Sampel	Karakteristik Mikroplastik			∑ MPs	Kelimpahan	Perbesaran
		Bentuk	Warna	Panjang (mm)		Partikel/Liter	
1	U.1.1	Line	Biru	0,716	14	4,67	4,5
2	U1.2	Line	Biru	0,128			
3	U1.3	Line	Biru	0,233			
4	U1.4	Line	Biru	0,577			
5	U1.5	Line	Biru	1,001			
6	U1.6	Line	Biru	0,142			
7	U1.7	Line	Bening	0,526			
8	U2.1	Line	Biru	0,199			
9	U2.2	Line	Biru	0,725			
10	U2.3	Line	Biru	0,266			
11	U2.4	Fragmen	Biru	1,580			
12	U3.1	Line	Bening	2,976			
13	U3.2	Fragmen	Biru	0,095			
14	U3.3	Fragmen	Biru	0,081			

Lampiran 14. Karakteristik dan kelimpahan mikroplastik pada sampel sedimen

Kelompok Ukuran Panjang < 3 Cm							
No	Kode Sampel	Karakteristik Mikroplastik			∑ MPs	Kelimpahan	Perbesaran
		Bentuk	Warna	Panjang (mm)		Partikel/gram	
1	U1.1	Fragmen	Merah	0,196	42	0,14	4,5
2	U1.2	Line	Biru	0,741			
3	U1.3	Line	Biru	0,346			
4	U1.4	Line	Biru	1,032			
5	U1.5	Line	Biru	0,555			
6	U1.6	Line	Biru	0,946			
7	U1.7	Line	Merah	0,150			
8	U1.8	Line	Merah	0,542			
9	U1.9	Line	Merah	0,308			
10	U1.10	Line	Merah	0,189			
11	U2.1	Fragmen	Biru	0,113			
12	U2.2	Fragmen	Biru	0,192			
13	U2.3	Fragmen	Biru	0,484			
14	U2.4	Fragmen	Biru	0,376			
15	U2.5	Fragmen	Biru	0,131			
16	U2.6	Fragmen	Biru	0,336			
17	U2.7	Fragmen	Biru	0,068			
18	U2.8	Fragmen	Biru	0,253			
19	U2.9	Fragmen	Biru	0,079			
20	U2.10	Fragmen	Biru	0,883			
21	U2.11	Line	Bening	0,968			
22	U3.1	Line	Biru	1,627			
23	U3.2	Line	Biru	0,443			
24	U3.3	Line	Biru	0,237			
25	U3.4	Line	Bening	1,787			
26	U3.5	Line	Bening	0,784			
27	U3.6	Fragmen	Biru	0,056			
28	U3.7	Line	Biru	0,181			
29	U3.8	Line	Biru	0,130			
30	U3.9	Line	Bening	0,083			
31	U3.10	Line	Bening	0,084			
32	U3.11	Fragmen	Biru	0,207			
33	U3.12	Fragmen	Biru	0,045			
34	U3.13	Fragmen	Biru	0,122			
35	U3.14	Fragmen	Biru	0,054			
36	U3.15	Fragmen	Biru	0,149			
37	U3.16	Fragmen	Biru	0,081			
38	U3.17	Fragmen	Biru	0,094			
39	U3.18	Fragmen	Biru	0,073			
40	U3.19	Fragmen	Biru	0,255			
41	U3.20	Fragmen	Biru	0,165			
42	U3.21	Line	Merah	0,851			

Lampiran 15. Partikel Bentuk Mikroplastik pada Kerang Bulu.

Panjang cangkang	Bentuk Mikroplastik	
	Fragment	Line
< 3	6	29
3 - 5	7	32
5 - 8	1	57

Lampiran 16. Partikel Bentuk Mikroplastik pada Air Laut.

ULANGAN AIR	Bentuk Mikroplastik	
	Line	Fragmen
U1	100%	0
U2	75%	25%
U3	14%	86%

Lampiran 17. Partikel Bentuk Mikroplastik pada Sedimen.

ULANGAN SEDIMEN	Bentuk Mikroplastik	
	Line	Fragmen
U1	90%	10%
U2	9%	91%
U3	48%	52%

Lampiran 18. Partikel Warna Mikroplastik pada Kerang Bulu.

Panjang cankang (cm)	Warna Mikroplastik						
	Merah	Biru	Bening	Abu-abu	Putih	Hitam	Kuning
< 3	1	23	6	5	0	0	0
3 - 5	4	15	19	0	1	0	0
5 -8	2	32	22	0	0	1	1

Lampiran 19. Partikel Warna Mikroplastik pada Air Laut.

ULANGAN AIR	Warna Mikroplastik	
	Bening	Biru
U1	1	6
U2	0	4
U3	1	2

Lampiran 20. Partikel Warna Mikroplastik pada Sedimen.

ULANGAN AIR	Warna Mikroplastik		
	Bening	Biru	Merah
U1	0	5	5
U2	1	11	0
U3	4	16	1

Lampiran 21. Hasil Uji One Way ANOVA kelimpahan mikroplastik pada *Anadara antiquata*

Descriptives

Kelimpahan

	N	Mean	Std. Deviation	Std. Error	95% Confidence Interval for Mean		Minimum	Maximum
					Lower Bound	Upper Bound		
< 3 cm	20	1.75	1.118	.250	1.23	2.27	0	5
3–5 cm	20	1.95	1.504	.336	1.25	2.65	0	5
5–8 cm	20	2.90	1.294	.289	2.29	3.51	1	6
Total	60	2.20	1.388	.179	1.84	2.56	0	6

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Kelimpahan	Based on Mean	1.749	2	57	.183
	Based on Median	1.900	2	57	.159
	Based on Median and with adjusted df	1.900	2	56.713	.159
	Based on trimmed mean	1.712	2	57	.190

ANOVA

Kelimpahan

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	15.100	2	7.550	4.369	.017
Within Groups	98.500	57	1.728		
Total	113.600	59			

Post Hoc Tests

Multiple Comparisons

Dependent Variable: Kelimpahan

LSD

(I) Panjang_Cangkang	(J) Panjang_Cangkang	Mean Difference (I–J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
< 3 cm	3–5 cm	-.200	.416	.632	-1.03	.63
	5–8 cm	-1.150*	.416	.008	-1.98	-.32
3–5 cm	< 3 cm	.200	.416	.632	-.63	1.03
	5–8 cm	-.950*	.416	.026	-1.78	-.12
5–8 cm	< 3 cm	1.150*	.416	.008	.32	1.98
	3–5 cm	.950*	.416	.026	.12	1.78

*. The mean difference is significant at the 0.05 level.

Lampiran 22. Hasil Uji Korelasi Pearson

Correlations

[DataSet0]

Correlations

		Kerang_Bulu	Air_Laut	Sedimen
Kerang_Bulu	Pearson Correlation	1	-.801	.997
	Sig. (2-tailed)		.408	.052
	N	3	3	3
Air_Laut	Pearson Correlation	-.801	1	-.750
	Sig. (2-tailed)	.408		.460
	N	3	3	3
Sedimen	Pearson Correlation	.997	-.750	1
	Sig. (2-tailed)	.052	.460	
	N	3	3	3

Lampiran 23. Dokumentasi Penelitian

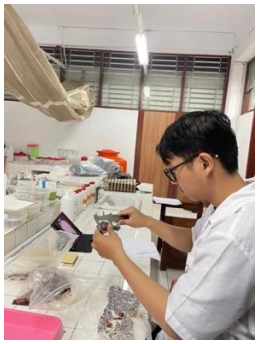
(a)

(b)

(c)

(d)

(e)



(f)

(g)

(h)

(a) Pengambilan sampel air laut, (b) Pengambilan sampel sedimen, (c) Pengambilan sampel kerang bulu (*Anadara antiquata*), (d) Preparasi sampel air laut, (e) Preparasi sampel sedimen, (f) Preparasi sampel kerang bulu (*Anadara antiquata*), (g) Proses pencampuran larutan Nacl jenuh, (h) Pengamatan mikroplastik pada ketiga sampel