DAFTAR PUSTAKA

Ali, A., Soemarno & Mangku P. 2013. Kajian Kualitas Air dan Status Mutu Air Sungai Metro di Kecamatan Sukun Kota Malang. Jurnal Bumi Lestari. 13(2): 265-274

Ali, N. A. 2017. Analisis Kandungan Logam Berat Timbal (Pb) Pada Kerang di Perairan Biringkassi Kabupaten Pangkep, Sulawesi Selatan. [Skripsi]. Universitas Islam Negeri Alauddin Makassar. Makassar.

Anas, P., Ruchimat, T., & Jubaedah, I. 2022. Dampak Aktivitas Manusia Terhadap Keberlanjutan Sumberdaya Perikanan Danau Lido Kabupaten Bogor Provinsi Jawa Barat. In Prosiding Seminar Nasional Ikan. 1(1): 305-317. https://doi.org/10.32491/semnasikan-mii-2022-p.304-317

Arbit, N. I. S., Tuwo, A., & Samawi, F. 2013. Status Kualitas Lingkungan Perairan Biringkassi Kabupaten Pangkep dan Strategi Pengelolaannya. Universitas Cokroaminoto, Universitas Hasanuddin. 9: 1–14.

Armiani, S., & Harisanti, B. M. 2021. Hubungan Kemelimpahan Fitoplankton dengan Faktor Lingkungan di Perairan Pantai Desa Madayin Lombok Timur. Jurnal Pijar Mipa, 16(1): 75-80. https://doi.org/10.29303/jpm.v16i1.1862

Asrini, N. K., Adnyana, I. W. S., Rai, I. N. 2017. Studi Analisis Kualitas Air di Daerah Aliran Sungai Pakerisan Provinsi Bali. 11(2): 101-107. https://doi/org/10.24843/ejes.2017.v11.i02.p01

Blume, K.K., J.C. Macedo, A. Meneguzzi, L.B. Silva, D.M. Quevedo, and M.A.S. Rodrigues. 2010. Water Quality Assessment of the Sinos River, Southern Brazil". Journal of Biology, 70: 1185-1193

Effendi, H., Kristianiarso, A. A., & Adiwilaga, E. M. 2013. Karakteristik Kualitas Air Sungai Cihideung, Kabupaten Bogor, Jawa Barat. Jurnal Ecolab, 7(2): 49-108.

Gusril, H. 2016. Studi Kualitas Air Minum PDAM di Kota Duri Riau. Jurnal Geografi. 8(2): 190-196.

Hamuna, B., Tanjung, R. H. R., Suwito, S., Maury, H. K., & Alianto, A. 2018. Kajian Kualitas Air Laut dan Indeks Pencemaran Berdasarkan Parameter Fisika-Kimia di Perairan Distrik Depapre, Jayapura. Jurnal Ilmu Lingkungan, 16(1): 35-48. https://doi.org/10.14710/jil.16.1.35-48

Handoco, E. 2021. Studi Analisis Kualitas Air Sungai Bah Biak Kota Pematangsiantar. Jurnal TRITON, 12(2): 117-124. https://doi.org/10.30598/tritonvol17issue2page117-124

Hertika, A. M. S., Putra, R. B. D.S . & Arsad, S. 2022. Buku Ajar Kualitas Air dan Pengelolaannya. UB Press, Malang. Indonesia.

Ladya, C. D., Supriatna., & Rokhmatuloh. 2015. Zonasi estuari Ci Mandiri Berdasarkan Salinitas Permukaan Perairan. Jurnal Geosains Terapan, 2(4): 13-13.

Laga, A., Affandi, R., Muchsin, I., & Kamal, M. M. 2015. Disribusi Spasial dan Temporal Ikan Pepija *Harpadon nehereus* (Hamilton,1822) di Perairan Pulau Tarakan, Kalimantan Utara. Jurnal Zoo Indonesia, 24(1): 41-50.

Lanuru, M. 2022. Model Sebaran Thermal Air Pendingin PLTU dan Kaitannya Dengan Komposisi Jenis Plankton dan Benthos Di Perairan Biringkassi. *Proceeding of International and National Conference on Marine Science and Fisheries*. 299-

305.

Latuconsina, H. 2020. Ekologi Perairan Tropis Prinsip Dasar Pengelolaan Sumber Daya Hayati Perairan. Universitas Islam Malang. Malang.

Mainassy, M. C. 2015. Pengaruh Parameter Fisika dan Kimia terhadap Kehadiran Ikan Lompa (*Thryssa baelama* Forsskal) di Perairan Pantai Apui Kabupaten Maluku Tengah. Jurnal Perikanan Universitas Gadjah Mada, 19(2): 61-66.

Mudloifah, I., & Purnomo, T. 2023. Analisis Kualitas Perairan di Pantai Asmoroqondi Kecamatan Palang Kabupaten Tuban Menggunakan Metode *Principal Component Analysis* (PCA). Jurnal LenteraBio: Berkala Ilmiah Biologi, 12(3): 273-280.

Naillah, A., Budiarti, L. Y., & Heriyani, F. 2021. Analisis Kualitas Air Sungai dengan Tinjauan Parameter pH, Suhu, BOD, COD, DO terhadap Coliform. Jurnal Homeostasis, 4(2): 487-494.

Nontji, A. 2002. Laut Nusantara. Penerbit Djambatan. Jakarta: 59-67.

Noya, Y. A., & Manuputty, G. M. 2022. Pola Sebaran Sedimen Kohesif dan Hubungannya dengan Massa Air Laut Pada Muara Sungai Wairuhu, Pulau Ambon-Maluku. SALOI : Jurnal Ilmu Pertanian, 1(1): 1-15. https://doi.org/10.55984/saloi.v1i1.105

Nuriya, H., Hidayah, Z., & Syah, A. F. 2010. Analisis Parameter Fisika Kimia di Perairan Sumenep Bagian Timur dengan Menggunakan Citra Landsat TM 5. Jurnal Kelautan: *Indonesian Journal of Marine Science and Technology*. 3(2): 132-138.

Nursaini, D., & Harahap, A. 2022. Kualitas Air Sungai. BIOEDUSAINS:Jurnal Pendidikan Biologi dan Sains, 5(1): 312-321. https://doi.org/10.31539/bioedusains.v5i1.3519

Patty, S. I. 2013. Distribusi Suhu, Salinitas dan Oksigen Terlarut di Perairan Kema, Sulawesi Selatan. Jurnal Ilmiah Platax, 1(3): 148-157. https://doi.org/10.35800/jip.1.3.2013.2580

Patty, S. I., Nurdiansah, D., & Akbar, N. 2020. Sebaran Salinitas, Kekeruhan, dan Kecerahan di Perairan Laut Tumbak-Bentenan Minahasa Tenggara. Jurnal Ilmu Kelautan Kepulauan, 3(1): 78–87. http://ejournal.unkhair.ac.id/index.php/kelautan

Patty, S. I., Yalindua, F. Y., & Ibrahim, P. S. 2021. Analisis Kualitas Perairan Bolaang Mongondow, Sulawesi Utara Berdasarkan Parameter Fisika-Kimia Air Laut. Jurnal Kelautan Tropis, 24(1): 113-122. https://doi.org/10.14710/jkt.v24i1.7596

Patty, W., & Tarumingkeng, A. 2007. Variasi Temporal dari Penyebaran Suhu di Muara Sungai Sario. Jurnal Ilmu Kelautan, 12(2), 73-78.

Pong-Masak, P. R., Jaya, A. I., Hasnawi, H., Pirzan, A. M., & Lanuru, M. 2016. Analisis Kesesuaian Lahan untuk Pengembangan Budidaya Rumput Laut di Gusung Batua, Pulau Badi Kabupaten Pangkep, Sulawesi Selatan. Jurnal Riset Akuakultur, 5(2): 299-316. https://doi.org/10.15578/jra.5.2.2010.299-316

Putra, A., & Husrin, S. 2017. Kualitas Perairan Pasca Cemaran Sampah Laut di Pantai Kuta Bali. Jurnal Ilmu dan Teknologi Kelautan Tropis, 9(1): 57-66.

Rohmawati, Y., & Kustomo, K. 2020. Analisis Kualitas Air pada Reservoir PDAM Kota

Semarang Menggunakan Uji Parameter Fisika, Kimia, dan Mikrobiologi, serta Dikombinasikan dengan Analisis Kemometri. Walisongo *Journal of Chemistry*, 3(2) : 100-107. https://doi.org/10.21580/wjc.v3i2.6603

Rukminasari, N., Awaluddin, K., & Nadiarti. 2014. Pengaruh Derajat Keasaman (pH) Air Laut Terhadap Konsentrasi Kalsium dan Laju Pertumbuhan *Halimeda* sp. Jurnal Torani, 24(1) : 28–34.

Sa'adah, V. H., & Widagdo, S. 2020. Sebaran Salinitas dan Temperatur Permukaan Pada Saat *Spring Tide* dan *Neap Tide* di Estuaria Sungai Porong, Sidoarjo. Jurnal Riset Kelautan Tropis, 2(1) : 48-57. https://doi.org/10.30649/jrkt.v2i1.39

Shabrina, M. H. 2022. Bioakumulasi Logam Berat Timbal (Pb) dan Kadmium (Cd) Pada Kerang Darah *Anadara granosa* L di Perairan Biringkassi, Kabupaten Pangkep Sulawesi Selatan. [Skripsi]. Universitas Hasanuddin. Makassar

Sugiyanti Y, & Astusti L. P. 2018. Respon Oksigen Terlarut Terhadap Pencemaran dan Pengaruhnya Terhadap Keberadaan Sumber Daya Ikan di Sungai Citarum. Jurnal Teknologi Lingkungan, 19(2): 203-212.

Sulistiyani, H., Haeruddin, H., & Rudiyanti, S. 2022. Analisis Status Pencemaran Air di Pantai Wates, Kabupaten Rembang. Jurnal Pasir Laut, 6(2): 117-125. https://doi.org/10.14710/jpl.2022.50540

Tanto, T. Al, Wisha, U. J., Kusumah, G., Pranowo, W. S., Husrin, S., Ilham, I., & Putra, A. 2017. Karakteristik Arus Laut Perairan Teluk Benoa-Bali. Jurnal Ilmiah Geomatika, 23(1): 37-48. https://doi.org/10.24895/jig.2017.23-1.631

Usman, A. F., Budimawan,. Budi, P. 2015. Kandungan Logam berat Pb-Cd dan Kualitas Air di Perairan Biringkassi, Bungoro, Pangkep. Jurnal Agrokompleks. 4 (9): 103-107.

Wibowo, N. T., Sugianto, N., Indrayanti, E., 2012. Studi Model Persebaran Panas Pada Perairan dalam Rencana Pembangunan PLTU Karanggeneng Roban, Batang. 1(1): 102-110.

Yolanda, Y. 2023. Analisis Status Mutu Perairan Pelabuhan Belawan Medan Berdasarkan Indeks STORET dan Indeks Pencemaran. Jurnal Sumberdaya Akuatik Indopasifik. 7(4): 527-541. https://doi.org/10.46252/jsai-fpik-unipa.2023.Vol.7.No.4.312

Yusuf, Y., Zuki, Z., & Refnita, G. 2013. Pengaruh Penambahan Abu Terbang (*Fly Ash*) Terhadap Kuat Tekan Mortar Semen Tipe PCC Serta Analisis Air Laut yang Digunakan untuk Perendaman. *Prosiding SEMIRATA 2013*. 1(1): 463-468.

LAMPIRAN

Lampiran 1. Hasil uji statistik *One-way* ANOVA pada suhu periode bulan perbani

Table Analyzed	Suhu				
Data sets analyzed	A-I				
ANOVA summary					
F	12,92				
P value	<0,0001				
P value summary	****				
Significant diff. among means (P < 0.05)?	Yes				
R square	0,8517				
Brown-Forsythe test					
F (DFn, DFd)	1,190 (8, 18)				
P value	0,3578				
P value summary	ns				
Are SDs significantly different (P < 0.05)?	No				
Bartlett's test					
Bartlett's statistic (corrected)					
P value					
P value summary					
Are SDs significantly different (P < 0.05)?					
ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
Treatment (between columns)	125,9	8	15,74	F (8, 18) = 12,92	P<0,0001
Residual (within columns)	21,93	18	1,219		
Total	147,9	26			
Data summary					
Number of treatments (columns)	9				
Number of values (total)	27				

Lampiran 2. Hasil uji lanjut *One-way* ANOVA pada suhu periode bulan perbani

Tukey's multiple comparisons test	Mean Diff,	95,00% CI of diff,	Significant?	Summary	Adjusted P Value	
S1 vs. S2	-2,767	-5,925 to 0,3914	No	ns	0,1136	A-B
S1 vs. S3	-0,8667	-4,025 to 2,291	No	ns	0,985	A-C
S1 vs. S4	0,06667	-3,091 to 3,225	No	ns	>0,9999	A-D
S1 vs. S5	3,167	0,008628 to 6,325	Yes	*	0,0491	A-E
S1 vs. S6	3,333	0,1753 to 6,491	Yes	*	0,034	A-F
S1 vs. S7	3,167	0,008628 to 6,325	Yes	*	0,0491	A-G
S1 vs. S8	3,833	0,6753 to 6,991	Yes	*	0,011	A-H
S1 vs. S9	1,467	-1,691 to 4,625	No	ns	0,779	A-I
S2 vs. S3	1,9	-1,258 to 5,058	No	ns	0,4975	B-C
S2 vs. S4	2,833	-0,3247 to 5,991	No	ns	0,0992	B-D
S2 vs. S5	5,933	2,775 to 9,091	Yes	****	<0,0001	B-E
S2 vs. S6	6,1	2,942 to 9,258	Yes	****	<0,0001	B-F
S2 vs. S7	5,933	2,775 to 9,091	Yes	****	<0,0001	B-G
S2 vs. S8	6,6	3,442 to 9,758	Yes	****	<0,0001	B-H
S2 vs. S9	4,233	1,075 to 7,391	Yes	**	0,0044	B-I
S3 vs. S4	0,9333	-2,225 to 4,091	No	ns	0,9766	C-D
S3 vs. S5	4,033	0,8753 to 7,191	Yes	**	0,007	C-E
S3 vs. S6	4,2	1,042 to 7,358	Yes	**	0,0047	C-F
S3 vs. S7	4,033	0,8753 to 7,191	Yes	**	0,007	C-G
S3 vs. S8	4,7	1,542 to 7,858	Yes	**	0,0015	C-H
S3 vs. S9	2,333	-0,8247 to 5,491	No	ns	0,2565	C-I
S4 vs. S5	3,1	-0,05804 to 6,258	No	ns	0,0567	D-E
S4 vs. S6	3,267	0,1086 to 6,425	Yes	*	0,0394	D-F
S4 vs. S7	3,1	-0,05804 to 6,258	No	ns	0,0567	D-G
S4 vs. S8	3,767	0,6086 to 6,925	Yes	*	0,0128	D-H
S4 vs. S9	1,4	-1,758 to 4,558	No	ns	0,8166	D-I
S5 vs. S6	0,1667	-2,991 to 3,325	No	ns	>0,9999	E-F
S5 vs. S7	0	-3,158 to 3,158	No	ns	>0,9999	E-G
S5 vs. S8	0,6667	-2,491 to 3,825	No	ns	0,9973	E-H
S5 vs. S9	-1,7	-4,858 to 1,458	No	ns	0,6304	E-I
S6 vs. S7	-0,1667	-3,325 to 2,991	No	ns	>0,9999	F-G
S6 vs. S8	0,5	-2,658 to 3,658	No	ns	0,9996	F-H
S6 vs. S9	-1,867	-5,025 to 1,291	No	ns	0,5193	F-I
S7 vs. S8	0,6667	-2,491 to 3,825	No	ns	0,9973	G-H
S7 vs. S9	-1,7	-4,858 to 1,458	No	ns	0,6304	G-I
S8 vs. S9	-2,367	-5,525 to 0,7914	No	ns	0,2421	H-I

Lampiran 3. Hasil uji statistik *One-way* ANOVA pada suhu periode bulan purnama

Table Analyzed	Suhu					
Data sets analyzed	A-I					
ANOVA summary						
F	3,718					
P value	0,0098					
P value summary	**					
Significant diff. among means (P < 0.05)?	Yes					
R square	0,623					
Brown-Forsythe test						
F (DFn, DFd)	0,7632 (8, 18)					
P value	0,6386					
P value summary	ns					
Are SDs significantly different (P < 0.05)?	No					
Bartlett's test						
Bartlett's statistic (corrected)						
P value						
P value summary						
Are SDs significantly different (P < 0.05)?						
ANOVA table	SS	DF	MS	F (DFn, DFd)	P value	
Treatment (between columns)	29,19	8	3,649	F (8, 18) = 3,718	P=0,0098	
Residual (within columns)	17,67	18	0,9815			
Total	46,86	26				
Data summary						
Number of treatments (columns)	9					
Number of values (total)	27					

Lampiran 4. Hasil uji lanjut *One-way* ANOVA pada suhu periode bulan purnama

Tukey's multiple comparisons test	Mean Diff,	95,00% CI of diff,	Significant?	Summary	Adjusted P Value	
S1 vs. S2	0	-2,834 to 2,834	No	ns	>0,9999	A-B
S1 vs. S3	1,033	-1,801 to 3,868	No	ns	0,9256	A-C
S1 vs. S4	-0,2	-3,034 to 2,634	No	ns	>0,9999	A-D
S1 vs. S5	1,067	-1,768 to 3,901	No	ns	0,9128	A-E
S1 vs. S6	0,8	-2,034 to 3,634	No	ns	0,9822	A-F
S1 vs. S7	-0,5	-3,334 to 2,334	No	ns	0,9992	A-G
S1 vs. S8	-1,833	-4,668 to 1,001	No	ns	0,4084	A-H
S1 vs. S9	-1,867	-4,701 to 0,9676	No	ns	0,3865	A-I
S2 vs. S3	1,033	-1,801 to 3,868	No	ns	0,9256	B-C
S2 vs. S4	-0,2	-3,034 to 2,634	No	ns	>0,9999	B-D
S2 vs. S5	1,067	-1,768 to 3,901	No	ns	0,9128	B-E
S2 vs. S6	0,8	-2,034 to 3,634	No	ns	0,9822	B-F
S2 vs. S7	-0,5	-3,334 to 2,334	No	ns	0,9992	B-G
S2 vs. S8	-1,833	-4,668 to 1,001	No	ns	0,4084	B-H
S2 vs. S9	-1,867	-4,701 to 0,9676	No	ns	0,3865	B-I
S3 vs. S4	-1,233	-4,068 to 1,601	No	ns	0,8303	C-D
S3 vs. S5	0,03333	-2,801 to 2,868	No	ns	>0,9999	C-E
S3 vs. S6	-0,2333	-3,068 to 2,601	No	ns	>0,9999	C-F
S3 vs. S7	-1,533	-4,368 to 1,301	No	ns	0,6248	C-G
S3 vs. S8	-2,867	-5,701 to -0,03239	Yes	*	0,0462	C-H
S3 vs. S9	-2,9	-5,734 to -0,06572	Yes	*	0,0426	C-I
S4 vs. S5	1,267	-1,568 to 4,101	No	ns	0,8104	D-E
S4 vs. S6	1	-1,834 to 3,834	No	ns	0,9372	D-F
S4 vs. S7	-0,3	-3,134 to 2,534	No	ns	>0,9999	D-G
S4 vs. S8	-1,633	-4,468 to 1,201	No	ns	0,5502	D-H
S4 vs. S9	-1,667	-4,501 to 1,168	No	ns	0,5256	D-I
S5 vs. S6	-0,2667	-3,101 to 2,568	No	ns	>0,9999	E-F
S5 vs. S7	-1,567	-4,401 to 1,268	No	ns	0,5999	E-G
S5 vs. S8	-2,9	-5,734 to -0,06572	Yes	*	0,0426	E-H
S5 vs. S9	-2,933	-5,768 to -0,09906	Yes	*	0,0393	E-I
S6 vs. S7	-1,3	-4,134 to 1,534	No	ns	0,7895	F-G
S6 vs. S8	-2,633	-5,468 to 0,2009	No	ns	0,0806	F-H
S6 vs. S9	-2,667	-5,501 to 0,1676	No	ns	0,0745	F-I
S7 vs. S8	-1,333	-4,168 to 1,501	No	ns	0,7678	G-H
S7 vs. S9	-1,367	-4,201 to 1,468	No	ns	0,7452	G-I
S8 vs. S9	-0,03333	-2,868 to 2,801	No	ns	>0,9999	H-I

Lampiran 5. Hasil uji statistik *t-test* pada suhu stasiun 1 pasang perbani dan pasang purnama

Table Analyzed	S1 Suhu
Column B	S1 Purnama
vs.	vs,
Column A	S1 Perbani
Unpaired t test	
P value	0,051
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=2,757, df=4
How big is the difference?	
Mean of column A	36,87
Mean of column B	34,37
Difference between means (B - A) ± SEM	-2,500 ± 0,9068
95% confidence interval	-5,018 to 0,01758
R squared (eta squared)	0,6552
F test to compare variances	
F, DFn, Dfd	5,789, 2, 2
P value	0,2946
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3
Sample size, column B	3

Lampiran 6. Hasil uji statistik *t-test* pada suhu stasiun 2 pasang perbani dan pasang purnama

Table Analyzed	S2 Suhu
Column B	S2 Purnama
vs.	vs,
Column A	S2 Perbani
Unpaired t test	
P value	<0,0001
P value summary	****
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=18,37, df=4
How big is the difference?	
Mean of column A	39,63
Mean of column B	34,37
Difference between means (B - A) ± SEM	-5,267 ± 0,2867
95% confidence interval	-6,063 to -4,471
R squared (eta squared)	0,9883
F test to compare variances	
F, DFn, Dfd	9,571, 2, 2
P value	0,1892
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3
Sample size, column B	3

Lampiran 7. Hasil uji statistik *t-test* pada suhu stasiun 3 pasang perbani dan pasang purnama

Table Analyzed	S3 Suhu
Column B	S3 Purnama
vs.	vs,
Column A	S3 Perbani
Unpaired t test	
P value	0,0007
P value summary	***
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=9,405, df=4
How big is the difference?	
Mean of column A	37,73
Mean of column B	33,33
Difference between means (B - A) ± SEM	-4,400 ± 0,4679
95% confidence interval	-5,699 to -3,101
R squared (eta squared)	0,9567
F test to compare variances	
F, DFn, Dfd	196,0, 2, 2
P value	0,0102
P value summary	*
Significantly different (P < 0.05)?	Yes
Data analyzed	
Sample size, column A	3
Sample size, column B	3

Lampiran 8. Hasil uji statistik *t-test* pada suhu stasiun 4 pasang perbani dan pasang purnama

Table Analyzed	S4 Suhu
Column B	S4 Purnama
vs.	vs,
Column A	S4 Perbani
Unpaired t test	
P value	0,2195
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=1,454, df=4
How big is the difference?	
Mean of column A	36,8
Mean of column B	34,57
Difference between means (B - A) ± SEM	-2,233 ± 1,536
95% confidence interval	-6,497 to 2,030
R squared (eta squared)	0,3459
F test to compare variances	
F, DFn, Dfd	19,60, 2, 2
P value	0,0971
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 9. Hasil uji statistik *t-test* pada suhu stasiun 5 pasang perbani dan pasang purnama

Table Analyzed	S5 Suhu
Column B	S5 Purnama
vs.	vs,
Column A	S5 Perbani
Unpaired t test	
P value	0,6018
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=0,5657, df=4
How big is the difference?	
Mean of column A	33,7
Mean of column B	33,3
Difference between means (B - A) ± SEM	-0,4000 ± 0,7071
95% confidence interval	-2,363 to 1,563
R squared (eta squared)	0,07407
F test to compare variances	
F, DFn, Dfd	1,632, 2, 2
P value	0,76
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 10. Hasil uji statistik *t-test* pada suhu stasiun 6 pasang perbani dan pasang purnama

Table Analyzed	S6 Suhu
Column B	S6 Purnama
vs.	vs,
Column A	S6 Perbani
Unpaired t test	
P value	0,9493
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=0,06773, df=4
How big is the difference?	
Mean of column A	33,53
Mean of column B	33,57
Difference between means (B - A) ± SEM	0,03333 ± 0,4922
95% confidence interval	-1,333 to 1,400
R squared (eta squared)	0,001145
F test to compare variances	
F, DFn, Dfd	3,449, 2, 2
P value	0,4495
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3
Sample size, column B	3

Lampiran 11. Hasil uji statistik *t-test* pada suhu stasiun 7 pasang perbani dan pasang purnama

Table Analyzed	S7 Suhu
Column B	S7 Purnama
vs.	vs,
Column A	S7 Perbani
Unpaired t test	
P value	0,2237
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=1,438, df=4
How big is the difference?	
Mean of column A	33,7
Mean of column B	34,87
Difference between means (B - A) ± SEM	1,167 ± 0,8110
95% confidence interval	-1,085 to 3,418
R squared (eta squared)	0,3409
F test to compare variances	
F, DFn, Dfd	27,19, 2, 2
P value	0,0709
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 12. Hasil uji statistik *t-test* pada suhu stasiun 8 pasang perbani dan pasang purnama

Table Analyzed	S8 Suhu
Column B	S8 Purnama
vs.	vs,
Column A	S8 Perbani
Unpaired t test	
P value	0,0208
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=3,703, df=4
How big is the difference?	
Mean of column A	33,03
Mean of column B	36,2
Difference between means (B - A) ± SEM	3,167 ± 0,8551
95% confidence interval	0,7927 to 5,541
R squared (eta squared)	0,7742
F test to compare variances	
F, DFn, Dfd	93,00, 2, 2
P value	0,0213
P value summary	*
Significantly different (P < 0.05)?	Yes
Data analyzed	
Sample size, column A	3
Sample size, column B	3

Lampiran 13. Hasil uji statistik *t-test* pada suhu stasiun 9 pasang perbani dan pasang purnama

Table Analyzed	S9 Suhu
Column B	S9 Purnama
vs.	vs,
Column A	S9 Perbani
Unpaired t test	
P value	0,4489
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=0,8385, df=4
How big is the difference?	
Mean of column A	35,4
Mean of column B	36,23
Difference between means (B - A) ± SEM	0,8333 ± 0,9939
95% confidence interval	-1,926 to 3,593
R squared (eta squared)	0,1495
F test to compare variances	
F, DFn, Dfd	41,33, 2, 2
P value	0,0472
P value summary	*
Significantly different (P < 0.05)?	Yes
Data analyzed	
Sample size, column A	3
Sample size, column B	3

Lampiran 14. Hasil uji statistik *One-way* ANOVA pada DO periode bulan perbani

Table Analyzed	DO					
Data sets analyzed	A-I					
ANOVA summary						
F	3,627					
P value	0,011					
P value summary	*					
Significant diff. among means (P < 0.05)?	Yes					
R square	0,6172					
Brown-Forsythe test						
F (DFn, DFd)	0,6828 (8, 18)					
P value	0,7013					
P value summary	ns					
Are SDs significantly different (P < 0.05)?	No					
Bartlett's test						
Bartlett's statistic (corrected)						
P value						
P value summary						
Are SDs significantly different (P < 0.05)?						
ANOVA table	SS	DF	MS	F (DFn, DFd)	P value	
Treatment (between columns)	12,65	8	1,581	F (8, 18) = 3,627	P=0,0110	
Residual (within columns)	7,846	18	0,4359			
Total	20,49	26				
Data summary						
Number of treatments (columns)	9					
Number of values (total)	27					

Lampiran 15. Hasil uji lanjut *One-way* ANOVA pada DO periode bulan perbani

Tukey's multiple comparisons test	Mean Diff,	95,00% CI of diff,	Significant?	Summary	Adjusted P Value	
S1 vs. S2	0,18	-1,709 to 2,069	No	ns	>0,9999	A-B
S1 vs. S3	-0,1867	-2,075 to 1,702	No	ns	>0,9999	A-C
S1 vs. S4	0,03	-1,859 to 1,919	No	ns	>0,9999	A-D
S1 vs. S5	0,2733	-1,615 to 2,162	No	ns	0,9998	A-E
S1 vs. S6	-0,5067	-2,395 to 1,382	No	ns	0,987	A-F
S1 vs. S7	-1,917	-3,805 to -0,02785	Yes	*	0,0452	A-G
S1 vs. S8	-0,5967	-2,485 to 1,292	No	ns	0,9656	A-H
S1 vs. S9	-1,237	-3,125 to 0,6521	No	ns	0,3937	A-I
S2 vs. S3	-0,3667	-2,255 to 1,522	No	ns	0,9985	B-C
S2 vs. S4	-0,15	-2,039 to 1,739	No	ns	>0,9999	B-D
S2 vs. S5	0,09333	-1,795 to 1,982	No	ns	>0,9999	B-E
S2 vs. S6	-0,6867	-2,575 to 1,202	No	ns	0,9267	B-F
S2 vs. S7	-2,097	-3,985 to -0,2079	Yes	*	0,0232	B-G
S2 vs. S8	-0,7767	-2,665 to 1,112	No	ns	0,8675	B-H
S2 vs. S9	-1,417	-3,305 to 0,4721	No	ns	0,2412	B-I
S3 vs. S4	0,2167	-1,672 to 2,105	No	ns	>0,9999	C-D
S3 vs. S5	0,46	-1,429 to 2,349	No	ns	0,993	C-E
S3 vs. S6	-0,32	-2,209 to 1,569	No	ns	0,9994	C-F
S3 vs. S7	-1,73	-3,619 to 0,1588	No	ns	0,0878	C-G
S3 vs. S8	-0,41	-2,299 to 1,479	No	ns	0,9967	C-H
S3 vs. S9	-1,05	-2,939 to 0,8388	No	ns	0,5932	C-I
S4 vs. S5	0,2433	-1,645 to 2,132	No	ns	>0,9999	D-E
S4 vs. S6	-0,5367	-2,425 to 1,352	No	ns	0,9815	D-F
S4 vs. S7	-1,947	-3,835 to -0,05785	Yes	*	0,0405	D-G
S4 vs. S8	-0,6267	-2,515 to 1,262	No	ns	0,9548	D-H
S4 vs. S9	-1,267	-3,155 to 0,6221	No	ns	0,3649	D-I
S5 vs. S6	-0,78	-2,669 to 1,109	No	ns	0,8649	E-F
S5 vs. S7	-2,19	-4,079 to -0,3012	Yes	*	0,0163	E-G
S5 vs. S8	-0,87	-2,759 to 1,019	No	ns	0,786	E-H
S5 vs. S9	-1,51	-3,399 to 0,3788	No	ns	0,1818	E-I
S6 vs. S7	-1,41	-3,299 to 0,4788	No	ns	0,246	F-G
S6 vs. S8	-0,09	-1,979 to 1,799	No	ns	>0,9999	F-H
S6 vs. S9	-0,73	-2,619 to 1,159	No	ns	0,9007	F-I
S7 vs. S8	1,32	-0,5688 to 3,209	No	ns	0,317	G-H
S7 vs. S9	0,68	-1,209 to 2,569	No	ns	0,9303	G-I
S8 vs. S9	-0,64	-2,529 to 1,249	No	ns	0,9493	H-I

Lampiran 16. Hasil uji statistik *One-way* ANOVA pada DO periode bulan purnama

Table Analyzed	DO				
Data sets analyzed	A-I				
ANOVA summary					
F	3,753				
P value	0,0094				
P value summary	**				
Significant diff. among means (P < 0.05)?	Yes				
R square	0,6252				
Brown-Forsythe test					
F (DFn, DFd)	0,8566 (8, 18)				
P value	0,5683				
P value summary	ns				
Are SDs significantly different (P < 0.05)?	No				
Bartlett's test					
Bartlett's statistic (corrected)					
P value					
P value summary					
Are SDs significantly different (P < 0.05)?					
ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
Treatment (between columns)	7,164	8	0,8955	F (8, 18) = 3,753	P=0,0094
Residual (within columns)	4,295	18	0,2386		
Total	11,46	26			
Data summary					
Number of treatments (columns)	9				
Number of values (total)	27				

Lampiran 17. Hasil uji lanjut *One-way* ANOVA pada DO periode bulan purnama

Tukey's multiple comparisons test	Mean Diff,	95,00% CI of diff,	Significant?	Summary	Adjusted P Value	
S1 vs. S2	0,53	-0,8675 to 1,927	No	ns	0,9094	A-B
S1 vs. S3	0,6	-0,7975 to 1,997	No	ns	0,8397	A-C
S1 vs. S4	-0,34	-1,737 to 1,057	No	ns	0,993	A-D
S1 vs. S5	0,8233	-0,5741 to 2,221	No	ns	0,5233	A-E
S1 vs. S6	0,06	-1,337 to 1,457	No	ns	>0,9999	A-F
S1 vs. S7	-0,2767	-1,674 to 1,121	No	ns	0,9983	A-G
S1 vs. S8	-0,07667	-1,474 to 1,321	No	ns	>0,9999	A-H
S1 vs. S9	-0,94	-2,337 to 0,4575	No	ns	0,3613	A-I
S2 vs. S3	0,07	-1,327 to 1,467	No	ns	>0,9999	B-C
S2 vs. S4	-0,87	-2,267 to 0,5275	No	ns	0,4553	B-D
S2 vs. S5	0,2933	-1,104 to 1,691	No	ns	0,9974	B-E
S2 vs. S6	-0,47	-1,867 to 0,9275	No	ns	0,9513	B-F
S2 vs. S7	-0,8067	-2,204 to 0,5908	No	ns	0,5482	B-G
S2 vs. S8	-0,6067	-2,004 to 0,7908	No	ns	0,832	B-H
S2 vs. S9	-1,47	-2,867 to -0,07255	Yes	*	0,0349	B-I
S3 vs. S4	-0,94	-2,337 to 0,4575	No	ns	0,3613	C-D
S3 vs. S5	0,2233	-1,174 to 1,621	No	ns	0,9996	C-E
S3 vs. S6	-0,54	-1,937 to 0,8575	No	ns	0,9008	C-F
S3 vs. S7	-0,8767	-2,274 to 0,5208	No	ns	0,4459	C-G
S3 vs. S8	-0,6767	-2,074 to 0,7208	No	ns	0,7413	C-H
S3 vs. S9	-1,54	-2,937 to -0,1425	Yes	*	0,0245	C-I
S4 vs. S5	1,163	-0,2341 to 2,561	No	ns	0,149	D-E
S4 vs. S6	0,4	-0,9975 to 1,797	No	ns	0,9807	D-F
S4 vs. S7	0,06333	-1,334 to 1,461	No	ns	>0,9999	D-G
S4 vs. S8	0,2633	-1,134 to 1,661	No	ns	0,9988	D-H
S4 vs. S9	-0,6	-1,997 to 0,7975	No	ns	0,8397	D-I
S5 vs. S6	-0,7633	-2,161 to 0,6341	No	ns	0,6137	E-F
S5 vs. S7	-1,1	-2,497 to 0,2975	No	ns	0,1953	E-G
S5 vs. S8	-0,9	-2,297 to 0,4975	No	ns	0,4137	E-H
S5 vs. S9	-1,763	-3,161 to -0,3659	Yes	**	0,0078	E-I
S6 vs. S7	-0,3367	-1,734 to 1,061	No	ns	0,9935	F-G
S6 vs. S8	-0,1367	-1,534 to 1,261	No	ns	>0,9999	F-H
S6 vs. S9	-1	-2,397 to 0,3975	No	ns	0,2906	F-I
S7 vs. S8	0,2	-1,197 to 1,597	No	ns	0,9998	G-H
S7 vs. S9	-0,6633	-2,061 to 0,7341	No	ns	0,7597	G-I
S8 vs. S9	-0,8633	-2,261 to 0,5341	No	ns	0,4648	H-I

Lampiran 18. Hasil uji statistik *t-test* pada DO stasiun 1 pasang perbani dan pasang purnama

Table Analyzed	S1
Column B	S1 Purnama
vs.	vs,
Column A	S1 Perbani
Unpaired t test	
P value	0,1301
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=1,901, df=4
How big is the difference?	
Mean of column A	4,907
Mean of column B	5,47
Difference between means (B - A) ± SEM	0,5633 ± 0,2964
95% confidence interval	-0,2596 to 1,386
R squared (eta squared)	0,4746
F test to compare variances	
F, DFn, Dfd	1,041, 2, 2
P value	0,9798
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3
Sample size, column B	3

Lampiran 19. Hasil uji statistik *t-test* pada DO stasiun 2 pasang perbani dan pasang purnama

Table Analyzed	S2
Column B	S2 Purnama
vs.	vs,
Column A	S2 Perbani
Unpaired t test	
P value	0,5998
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=0,5689, df=4
How big is the difference?	
Mean of column A	4,727
Mean of column B	4,94
Difference between means (B - A) ± SEM	0,2133 ± 0,3750
95% confidence interval	-0,8278 to 1,254
R squared (eta squared)	0,07486
F test to compare variances	
F, DFn, Dfd	36,66, 2, 2
P value	0,0531
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 20. Hasil uji statistik *t-test* pada DO stasiun 3 pasang perbani dan pasang purnama

Table Analyzed	S3
Column B	S3 Purnama
vs.	vs,
Column A	S3 Perbani
Unpaired t test	
P value	0,1848
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=1,600, df=4
How big is the difference?	
Mean of column A	5,093
Mean of column B	4,87
Difference between means (B - A) ± SEM	-0,2233 ± 0,1396
95% confidence interval	-0,6108 to 0,1642
R squared (eta squared)	0,3903
F test to compare variances	
F, DFn, Dfd	1,752, 2, 2
P value	0,7268
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 21. Hasil uji statistik *t-test* pada DO stasiun 4 pasang perbani dan pasang purnama

Table Analyzed	S4
Column B	S4 Purnama
vs.	vs,
Column A	S4 Perbani
Unpaired t test	
P value	0,1451
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=1,807, df=4
How big is the difference?	
Mean of column A	4,877
Mean of column B	5,81
Difference between means (B - A) ± SEM	0,9333 ± 0,5166
95% confidence interval	-0,5010 to 2,368
R squared (eta squared)	0,4493
F test to compare variances	
F, DFn, Dfd	3,011, 2, 2
P value	0,4986
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 22. Hasil uji statistik *t-test* pada DO stasiun 5 pasang perbani dan pasang purnama

Table Analyzed	S5
Column B	S5 Purnama
vs.	vs,
Column A	S5 Perbani
Unpaired t test	
P value	0,966
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=0,04536, df=4
How big is the difference?	
Mean of column A	4,633
Mean of column B	4,647
Difference between means (B - A) ± SEM	0,01333 ± 0,2939
95% confidence interval	-0,8027 to 0,8294
R squared (eta squared)	0,0005142
F test to compare variances	
F, DFn, Dfd	1,351, 2, 2
P value	0,8507
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 23. Hasil uji statistik *t-test* pada DO stasiun 6 pasang perbani dan pasang purnama

Table Analyzed	S6
Column B	S6 Purnama
vs.	vs,
Column A	S6 Perbani
Unpaired t test	
P value	0,9889
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=0,01477, df=4
How big is the difference?	
Mean of column A	5,413
Mean of column B	5,41
Difference between means (B - A) ± SEM	-0,003333 ± 0,2257
95% confidence interval	-0,6300 to 0,6233
R squared (eta squared)	0,00005452
F test to compare variances	
F, DFn, Dfd	3,164, 2, 2
P value	0,4803
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 24. Hasil uji statistik *t-test* pada DO stasiun 7 pasang perbani dan pasang purnama

Table Analyzed	S7
Column B	S7 Purnama
vs.	vs,
Column A	S7 Perbani
Unpaired t test	
P value	0,0276
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=3,386, df=4
How big is the difference?	
Mean of column A	6,823
Mean of column B	5,747
Difference between means (B - A) ± SEM	-1,077 ± 0,3180
95% confidence interval	-1,960 to -0,1938
R squared (eta squared)	0,7413
F test to compare variances	
F, DFn, Dfd	16,92, 2, 2
P value	0,1116
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 25. Hasil uji statistik *t-test* pada DO stasiun 8 pasang perbani dan pasang purnama

Table Analyzed	S8
Column B	S8 Purnama
vs.	vs,
Column A	S8 Perbani
Unpaired t test	
P value	0,9603
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=0,05292, df=4
How big is the difference?	
Mean of column A	5,503
Mean of column B	5,547
Difference between means (B - A) ± SEM	0,04333 ± 0,8188
95% confidence interval	-2,230 to 2,317
R squared (eta squared)	0,0006997
F test to compare variances	
F, DFn, Dfd	3,234, 2, 2
P value	0,4723
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 26. Hasil uji statistik *t-test* pada DO stasiun 9 pasang perbani dan pasang purnama

Table Analyzed	S9
Column B	S9 Purnama
vs.	vs,
Column A	S9 Perbani
Unpaired t test	
P value	0,7479
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=0,3443, df=4
How big is the difference?	
Mean of column A	6,143
Mean of column B	6,41
Difference between means (B - A) ± SEM	0,2667 ± 0,7744
95% confidence interval	-1,883 to 2,417
R squared (eta squared)	0,02879
F test to compare variances	
F, DFn, Dfd	1,547, 2, 2
P value	0,7853
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 27. Hasil uji statistik *One-way* ANOVA pada salinitas periode bulan perbani

Table Analyzed	Salinitas					
Data sets analyzed	A-I					
ANOVA summary						
F	24,83					
P value	<0,0001					
P value summary	****					
Significant diff. among means (P < 0.05)?	Yes					
R square	0,9169					
Brown-Forsythe test						
F (DFn, DFd)	0,5928 (8, 18)					
P value	0,7715					
P value summary	ns					
Are SDs significantly different (P < 0.05)?	No					
Bartlett's test						
Bartlett's statistic (corrected)						
P value						
P value summary						
Are SDs significantly different (P < 0.05)?						
ANOVA table	SS	DF	MS	F (DFn, DFd)	P value	
Treatment (between columns)	1230	8	153,8	F (8, 18) = 24,83	P<0,0001	
Residual (within columns)	111,5	18	6,194			
Total	1342	26				
Data summary						
Number of treatments (columns)	9					
Number of values (total)	27					

Lampiran 28. Hasil uji lanjut *One-way* ANOVA pada salinitas periode bulan perbani

Tukey's multiple comparisons test	Mean Diff,	95,00% CI of diff,	Significant?	Summary	Adjusted P Value	
S1 vs. S2	-8,533	-15,65 to -1,413	Yes	*	0,0123	A-B
S1 vs. S3	-7,133	-14,25 to -0,01318	Yes	*	0,0494	A-C
S1 vs. S4	-8,9	-16,02 to -1,780	Yes	**	0,0085	A-D
S1 vs. S5	-6,1	-13,22 to 1,020	No	ns	0,1283	A-E
S1 vs. S6	-11,43	-18,55 to -4,313	Yes	***	0,0006	A-F
S1 vs. S7	-20,53	-27,65 to -13,41	Yes	****	<0,0001	A-G
S1 vs. S8	-20,47	-27,59 to -13,35	Yes	****	<0,0001	A-H
S1 vs. S9	-18,73	-25,85 to -11,61	Yes	****	<0,0001	A-I
S2 vs. S3	1,4	-5,720 to 8,520	No	ns	0,9983	B-C
S2 vs. S4	-0,3667	-7,487 to 6,753	No	ns	>0,9999	B-D
S2 vs. S5	2,433	-4,687 to 9,553	No	ns	0,9469	B-E
S2 vs. S6	-2,9	-10,02 to 4,220	No	ns	0,8731	B-F
S2 vs. S7	-12	-19,12 to -4,880	Yes	***	0,0004	B-G
S2 vs. S8	-11,93	-19,05 to -4,813	Yes	***	0,0004	B-H
S2 vs. S9	-10,2	-17,32 to -3,080	Yes	**	0,0023	B-I
S3 vs. S4	-1,767	-8,887 to 5,353	No	ns	0,9921	C-D
S3 vs. S5	1,033	-6,087 to 8,153	No	ns	0,9998	C-E
S3 vs. S6	-4,3	-11,42 to 2,820	No	ns	0,4929	C-F
S3 vs. S7	-13,4	-20,52 to -6,280	Yes	****	<0,0001	C-G
S3 vs. S8	-13,33	-20,45 to -6,213	Yes	***	0,0001	C-H
S3 vs. S9	-11,6	-18,72 to -4,480	Yes	***	0,0006	C-I
S4 vs. S5	2,8	-4,320 to 9,920	No	ns	0,8922	D-E
S4 vs. S6	-2,533	-9,653 to 4,587	No	ns	0,9344	D-F
S4 vs. S7	-11,63	-18,75 to -4,513	Yes	***	0,0005	D-G
S4 vs. S8	-11,57	-18,69 to -4,447	Yes	***	0,0006	D-H
S4 vs. S9	-9,833	-16,95 to -2,713	Yes	**	0,0033	D-I
S5 vs. S6	-5,333	-12,45 to 1,787	No	ns	0,2426	E-F
S5 vs. S7	-14,43	-21,55 to -7,313	Yes	****	<0,0001	E-G
S5 vs. S8	-14,37	-21,49 to -7,247	Yes	****	<0,0001	E-H
S5 vs. S9	-12,63	-19,75 to -5,513	Yes	***	0,0002	E-I
S6 vs. S7	-9,1	-16,22 to -1,980	Yes	**	0,0069	F-G
S6 vs. S8	-9,033	-16,15 to -1,913	Yes	**	0,0074	F-H
S6 vs. S9	-7,3	-14,42 to -0,1798	Yes	*	0,042	F-I
S7 vs. S8	0,06667	-7,053 to 7,187	No	ns	>0,9999	G-H
S7 vs. S9	1,8	-5,320 to 8,920	No	ns	0,9911	G-I
S8 vs. S9	1,733	-5,387 to 8,853	No	ns	0,993	H-I

Lampiran 29. Hasil uji statistik *One-way* ANOVA pada salinitas periode bulan purnama

Table Analyzed	Salinitas				
Data sets analyzed	A-I				
ANOVA summary					
F	2,114				
P value	0,0892				
P value summary	ns				
Significant diff. among means (P < 0.05)?	No				
R square	0,4845				
Brown-Forsythe test					
F (DFn, DFd)	0,4578 (8, 18)				
P value	0,8697				
P value summary	ns				
Are SDs significantly different (P < 0.05)?	No				
Bartlett's test					
Bartlett's statistic (corrected)					
P value					
P value summary					
Are SDs significantly different (P < 0.05)?					
ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
Treatment (between columns)	356	8	44,5	F (8, 18) = 2,114	P=0,0892
Residual (within columns)	378,9	18	21,05		
Total	734,9	26			
Data summary					
Number of treatments (columns)	9				
Number of values (total)	27				

Lampiran 30. Hasil uji lanjut *One-way* ANOVA pada salinitas periode bulan purnama

Tukey's multiple comparisons test	Mean Diff,	95,00% CI of diff,	Significant?	Summary	Adjusted P Value	
S1 vs. S2	-3,267	-16,39 to 9,859	No	ns	0,9919	A-B
S1 vs. S3	-0,7	-13,83 to 12,43	No	ns	>0,9999	A-C
S1 vs. S4	-2,667	-15,79 to 10,46	No	ns	0,9979	A-D
S1 vs. S5	-4,2	-17,33 to 8,925	No	ns	0,963	A-E
S1 vs. S6	-9,7	-22,83 to 3,425	No	ns	0,2563	A-F
S1 vs. S7	-6,567	-19,69 to 6,559	No	ns	0,7093	A-G
S1 vs. S8	-6,367	-19,49 to 6,759	No	ns	0,7396	A-H
S1 vs. S9	-11,3	-24,43 to 1,825	No	ns	0,1249	A-I
S2 vs. S3	2,567	-10,56 to 15,69	No	ns	0,9984	B-C
S2 vs. S4	0,6	-12,53 to 13,73	No	ns	>0,9999	B-D
S2 vs. S5	-0,9333	-14,06 to 12,19	No	ns	>0,9999	B-E
S2 vs. S6	-6,433	-19,56 to 6,692	No	ns	0,7296	B-F
S2 vs. S7	-3,3	-16,43 to 9,825	No	ns	0,9914	B-G
S2 vs. S8	-3,1	-16,23 to 10,03	No	ns	0,9942	B-H
S2 vs. S9	-8,033	-21,16 to 5,092	No	ns	0,4764	B-I
S3 vs. S4	-1,967	-15,09 to 11,16	No	ns	0,9998	C-D
S3 vs. S5	-3,5	-16,63 to 9,625	No	ns	0,9875	C-E
S3 vs. S6	-9	-22,13 to 4,125	No	ns	0,3388	C-F
S3 vs. S7	-5,867	-18,99 to 7,259	No	ns	0,8103	C-G
S3 vs. S8	-5,667	-18,79 to 7,459	No	ns	0,8359	C-H
S3 vs. S9	-10,6	-23,73 to 2,525	No	ns	0,1732	C-I
S4 vs. S5	-1,533	-14,66 to 11,59	No	ns	>0,9999	D-E
S4 vs. S6	-7,033	-20,16 to 6,092	No	ns	0,6356	D-F
S4 vs. S7	-3,9	-17,03 to 9,225	No	ns	0,9758	D-G
S4 vs. S8	-3,7	-16,83 to 9,425	No	ns	0,9824	D-H
S4 vs. S9	-8,633	-21,76 to 4,492	No	ns	0,3881	D-I
S5 vs. S6	-5,5	-18,63 to 7,625	No	ns	0,8558	E-F
S5 vs. S7	-2,367	-15,49 to 10,76	No	ns	0,9991	E-G
S5 vs. S8	-2,167	-15,29 to 10,96	No	ns	0,9995	E-H
S5 vs. S9	-7,1	-20,23 to 6,025	No	ns	0,6249	E-I
S6 vs. S7	3,133	-9,992 to 16,26	No	ns	0,9938	F-G
S6 vs. S8	3,333	-9,792 to 16,46	No	ns	0,9908	F-H
S6 vs. S9	-1,6	-14,73 to 11,53	No	ns	>0,9999	F-I
S7 vs. S8	0,2	-12,93 to 13,33	No	ns	>0,9999	G-H
S7 vs. S9	-4,733	-17,86 to 8,392	No	ns	0,9296	G-I
S8 vs. S9	-4,933	-18,06 to 8,192	No	ns	0,9134	H-I

Lampiran 31. Hasil uji statistik *t-test* pada salinitas stasiun 1 pasang perbani dan pasang purnama

Table Analyzed	S1
Column B	S1 Purnama
vs.	vs,
Column A	S1 Perbani
Unpaired t test	
P value	0,0495
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=2,786, df=4
How big is the difference?	
Mean of column A	5,733
Mean of column B	2,4
Difference between means (B - A) ± SEM	-3,333 ± 1,196
95% confidence interval	-6,655 to -0,01190
R squared (eta squared)	0,66
F test to compare variances	
F, DFn, Dfd	2,089, 2, 2
P value	0,6475
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 32. Hasil uji statistik *t-test* pada salinitas stasiun 2 pasang perbani dan pasang purnama

Table Analyzed	S2
Column B	S2 Purnama
vs.	vs,
Column A	S2 Perbani
Unpaired t test	
P value	0,1168
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=1,995, df=4
How big is the difference?	
Mean of column A	14,27
Mean of column B	5,667
Difference between means (B - A) ± SEM	-8,600 ± 4,311
95% confidence interval	-20,57 to 3,368
R squared (eta squared)	0,4988
F test to compare variances	
F, DFn, Dfd	3,347, 2, 2
P value	0,4601
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 33. Hasil uji statistik *t-test* pada salinitas stasiun 3 pasang perbani dan pasang purnama

Table Analyzed	S3
Column B	S3 Purnama
vs.	vs,
Column A	S3 Perbani
Unpaired t test	
P value	0,0019
P value summary	**
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=7,231, df=4
How big is the difference?	
Mean of column A	12,87
Mean of column B	3,1
Difference between means (B - A) ± SEM	-9,767 ± 1,351
95% confidence interval	-13,52 to -6,016
R squared (eta squared)	0,9289
F test to compare variances	
F, DFn, Dfd	14,06, 2, 2
P value	0,1328
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 34. Hasil uji statistik *t-test* pada salinitas stasiun 4 pasang perbani dan pasang purnama

Table Analyzed	S4
Column B	S4 Purnama
vs.	vs,
Column A	S4 Perbani
Unpaired t test	
P value	0,051
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=2,757, df=4
How big is the difference?	
Mean of column A	14,63
Mean of column B	5,067
Difference between means (B - A) ± SEM	-9,567 ± 3,470
95% confidence interval	-19,20 to 0,06679
R squared (eta squared)	0,6552
F test to compare variances	
F, DFn, Dfd	2,920, 2, 2
P value	0,5102
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 35. Hasil uji statistik *t-test* pada salinitas stasiun 5 pasang perbani dan pasang purnama

Table Analyzed	S5
Column B	S5 Purnama
vs.	vs,
Column A	S5 Perbani
Unpaired t test	
P value	0,1477
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=1,791, df=4
How big is the difference?	
Mean of column A	11,83
Mean of column B	6,6
Difference between means (B - A) ± SEM	-5,233 ± 2,921
95% confidence interval	-13,34 to 2,878
R squared (eta squared)	0,4451
F test to compare variances	
F, DFn, Dfd	11,53, 2, 2
P value	0,1596
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 36. Hasil uji statistik *t-test* pada salinitas stasiun 6 pasang perbani dan pasang purnama

Table Analyzed	S6
Column B	S6 Purnama
vs.	vs,
Column A	S6 Perbani
Unpaired t test	
P value	0,3795
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=0,9871, df=4
How big is the difference?	
Mean of column A	17,17
Mean of column B	12,1
Difference between means (B - A) ± SEM	-5,067 ± 5,133
95% confidence interval	-19,32 to 9,185
R squared (eta squared)	0,1959
F test to compare variances	
F, DFn, Dfd	10,42, 2, 2
P value	0,1752
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 37. Hasil uji statistik *t-test* pada salinitas stasiun 7 pasang perbani dan pasang purnama

Table Analyzed	S7
Column B	S7 Purnama
vs.	vs,
Column A	S7 Perbani
Unpaired t test	
P value	0,0006
P value summary	***
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=9,957, df=4
How big is the difference?	
Mean of column A	26,27
Mean of column B	8,967
Difference between means (B - A) ± SEM	-17,30 ± 1,737
95% confidence interval	-22,12 to -12,48
R squared (eta squared)	0,9612
F test to compare variances	
F, DFn, Dfd	96,04, 2, 2
P value	0,0206
P value summary	*
Significantly different (P < 0.05)?	Yes
Data analyzed	
Sample size, column A	3

Lampiran 38. Hasil uji statistik *t-test* pada salinitas stasiun 8 pasang perbani dan pasang purnama

Table Analyzed	S8
Column B	S8 Purnama
vs.	vs,
Column A	S8 Perbani
Unpaired t test	
P value	<0,0001
P value summary	****
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=32,69, df=4
How big is the difference?	
Mean of column A	26,2
Mean of column B	8,767
Difference between means (B - A) ± SEM	-17,43 ± 0,5333
95% confidence interval	-18,91 to -15,95
R squared (eta squared)	0,9963
F test to compare variances	
F, DFn, Dfd	2,160, 2, 2
P value	0,6328
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 39. Hasil uji statistik *t-test* pada salinitas stasiun 9 pasang perbani dan pasang purnama

Table Analyzed	S9
Column B	S9 Purnama
vs.	vs,
Column A	S9 Perbani
Unpaired t test	
P value	0,0257
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=3,463, df=4
How big is the difference?	
Mean of column A	24,47
Mean of column B	13,7
Difference between means (B - A) ± SEM	-10,77 ± 3,109
95% confidence interval	-19,40 to -2,135
R squared (eta squared)	0,7499
F test to compare variances	
F, DFn, Dfd	7,469, 2, 2
P value	0,2361
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 40. Hasil uji statistik *One-way* ANOVA pada pH periode bulan perbani

ANOVA summary						
F	4,667					
P value	0,0032					
P value summary	**					
Significant diff. among means (P < 0.05)?	Yes					
R square	0,6747					
Brown-Forsythe test						
F (DFn, DFd)	0,1818 (8, 18)					
P value	0,9905					
P value summary	ns					
Are SDs significantly different (P < 0.05)?	No					
Bartlett's test						
Bartlett's statistic (corrected)						
P value						
P value summary						
Are SDs significantly different (P < 0.05)?						
ANOVA table	SS	DF	MS	F (DFn, DFd)	P value	
Treatment (between columns)	0,2532	8	0,03165	F (8, 18) = 4,667	P=0,0032	
Residual (within columns)	0,1221	18	0,006781			
Total	0,3753	26				
Data summary						
Number of treatments (columns)	9					
Number of values (total)	27					

Lampiran 41. Hasil uji lanjut *One-way* ANOVA pada pH periode bulan perbani

Tukey's multiple comparisons test	Mean Diff,	95,00% CI of diff,	Significant?	Summary	Adjusted P Value	
S1 vs. S2	-0,09333	-0,3289 to 0,1423	No	ns	0,8884	A-B
S1 vs. S3	-0,1467	-0,3823 to 0,08893	No	ns	0,4554	A-C
S1 vs. S4	-0,07333	-0,3089 to 0,1623	No	ns	0,9684	A-D
S1 vs. S5	-0,1567	-0,3923 to 0,07893	No	ns	0,375	A-E
S1 vs. S6	-0,1867	-0,4223 to 0,04893	No	ns	0,1895	A-F
S1 vs. S7	-0,2867	-0,5223 to -0,05107	Yes	*	0,0108	A-G
S1 vs. S8	-0,2867	-0,5223 to -0,05107	Yes	*	0,0108	A-H
S1 vs. S9	-0,28	-0,5156 to -0,04441	Yes	*	0,0132	A-I
S2 vs. S3	-0,05333	-0,2889 to 0,1823	No	ns	0,9957	B-C
S2 vs. S4	0,02	-0,2156 to 0,2556	No	ns	>0,9999	B-D
S2 vs. S5	-0,06333	-0,2989 to 0,1723	No	ns	0,9868	B-E
S2 vs. S6	-0,09333	-0,3289 to 0,1423	No	ns	0,8884	B-F
S2 vs. S7	-0,1933	-0,4289 to 0,04226	No	ns	0,1602	B-G
S2 vs. S8	-0,1933	-0,4289 to 0,04226	No	ns	0,1602	B-H
S2 vs. S9	-0,1867	-0,4223 to 0,04893	No	ns	0,1895	B-I
S3 vs. S4	0,07333	-0,1623 to 0,3089	No	ns	0,9684	C-D
S3 vs. S5	-0,01	-0,2456 to 0,2256	No	ns	>0,9999	C-E
S3 vs. S6	-0,04	-0,2756 to 0,1956	No	ns	0,9994	C-F
S3 vs. S7	-0,14	-0,3756 to 0,09559	No	ns	0,5127	C-G
S3 vs. S8	-0,14	-0,3756 to 0,09559	No	ns	0,5127	C-H
S3 vs. S9	-0,1333	-0,3689 to 0,1023	No	ns	0,572	C-I
S4 vs. S5	-0,08333	-0,3189 to 0,1523	No	ns	0,9363	D-E
S4 vs. S6	-0,1133	-0,3489 to 0,1223	No	ns	0,7474	D-F
S4 vs. S7	-0,2133	-0,4489 to 0,02226	No	ns	0,094	D-G
S4 vs. S8	-0,2133	-0,4489 to 0,02226	No	ns	0,094	D-H
S4 vs. S9	-0,2067	-0,4423 to 0,02893	No	ns	0,1127	D-I
S5 vs. S6	-0,03	-0,2656 to 0,2056	No	ns	>0,9999	E-F
S5 vs. S7	-0,13	-0,3656 to 0,1056	No	ns	0,6019	E-G
S5 vs. S8	-0,13	-0,3656 to 0,1056	No	ns	0,6019	E-H
S5 vs. S9	-0,1233	-0,3589 to 0,1123	No	ns	0,6615	E-I
S6 vs. S7	-0,1	-0,3356 to 0,1356	No	ns	0,8475	F-G
S6 vs. S8	-0,1	-0,3356 to 0,1356	No	ns	0,8475	F-H
S6 vs. S9	-0,09333	-0,3289 to 0,1423	No	ns	0,8884	F-I
S7 vs. S8	0	-0,2356 to 0,2356	No	ns	>0,9999	G-H
S7 vs. S9	0,006667	-0,2289 to 0,2423	No	ns	>0,9999	G-I
S8 vs. S9	0,006667	-0,2289 to 0,2423	No	ns	>0,9999	H-I

Lampiran 42. Hasil uji statistik *One-way* ANOVA pada pH periode bulan purnama

Table Analyzed	pH				
Data sets analyzed	A-I				
ANOVA summary					
F	0,6991				
P value	0,6885				
P value summary	ns				
Significant diff. among means (P < 0.05)?	No				
R square	0,2371				
Brown-Forsythe test					
F (DFn, DFd)	1,434 (8, 18)				
P value	0,2488				
P value summary	ns				
Are SDs significantly different (P < 0.05)?	No				
Bartlett's test					
Bartlett's statistic (corrected)					
P value					
P value summary					
Are SDs significantly different (P < 0.05)?					
ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
Treatment (between columns)	0,1992	8	0,0249	F (8, 18) = 0,6991	P=0,6885
Residual (within columns)	0,6411	18	0,03562		
Total	0,8403	26			
Data summary					
Number of treatments (columns)	9				
Number of values (total)	27				

Lampiran 43. Hasil uji lanjut *One-way* ANOVA pada pH periode bulan purnama

Tukey's multiple comparisons test	Mean Diff,	95,00% CI of diff,	Significant?	Summary	Adjusted P Value	
S1 vs. S2	0,1633	-0,3766 to 0,7033	No	ns	0,9732	A-B
S1 vs. S3	0,06	-0,4799 to 0,5999	No	ns	>0,9999	A-C
S1 vs. S4	0,1333	-0,4066 to 0,6733	No	ns	0,9923	A-D
S1 vs. S5	0,1733	-0,3666 to 0,7133	No	ns	0,9623	A-E
S1 vs. S6	0,1167	-0,4233 to 0,6566	No	ns	0,9968	A-F
S1 vs. S7	0,02667	-0,5133 to 0,5666	No	ns	>0,9999	A-G
S1 vs. S8	-0,08667	-0,6266 to 0,4533	No	ns	0,9996	A-H
S1 vs. S9	-0,03	-0,5699 to 0,5099	No	ns	>0,9999	A-I
S2 vs. S3	-0,1033	-0,6433 to 0,4366	No	ns	0,9986	B-C
S2 vs. S4	-0,03	-0,5699 to 0,5099	No	ns	>0,9999	B-D
S2 vs. S5	0,01	-0,5299 to 0,5499	No	ns	>0,9999	B-E
S2 vs. S6	-0,04667	-0,5866 to 0,4933	No	ns	>0,9999	B-F
S2 vs. S7	-0,1367	-0,6766 to 0,4033	No	ns	0,991	B-G
S2 vs. S8	-0,25	-0,7899 to 0,2899	No	ns	0,7816	B-H
S2 vs. S9	-0,1933	-0,7333 to 0,3466	No	ns	0,9322	B-I
S3 vs. S4	0,07333	-0,4666 to 0,6133	No	ns	0,9999	C-D
S3 vs. S5	0,1133	-0,4266 to 0,6533	No	ns	0,9974	C-E
S3 vs. S6	0,05667	-0,4833 to 0,5966	No	ns	>0,9999	C-F
S3 vs. S7	-0,03333	-0,5733 to 0,5066	No	ns	>0,9999	C-G
S3 vs. S8	-0,1467	-0,6866 to 0,3933	No	ns	0,9859	C-H
S3 vs. S9	-0,09	-0,6299 to 0,4499	No	ns	0,9995	C-I
S4 vs. S5	0,04	-0,4999 to 0,5799	No	ns	>0,9999	D-E
S4 vs. S6	-0,01667	-0,5566 to 0,5233	No	ns	>0,9999	D-F
S4 vs. S7	-0,1067	-0,6466 to 0,4333	No	ns	0,9983	D-G
S4 vs. S8	-0,22	-0,7599 to 0,3199	No	ns	0,8729	D-H
S4 vs. S9	-0,1633	-0,7033 to 0,3766	No	ns	0,9732	D-I
S5 vs. S6	-0,05667	-0,5966 to 0,4833	No	ns	>0,9999	E-F
S5 vs. S7	-0,1467	-0,6866 to 0,3933	No	ns	0,9859	E-G
S5 vs. S8	-0,26	-0,7999 to 0,2799	No	ns	0,7465	E-H
S5 vs. S9	-0,2033	-0,7433 to 0,3366	No	ns	0,9125	E-I
S6 vs. S7	-0,09	-0,6299 to 0,4499	No	ns	0,9995	F-G
S6 vs. S8	-0,2033	-0,7433 to 0,3366	No	ns	0,9125	F-H
S6 vs. S9	-0,1467	-0,6866 to 0,3933	No	ns	0,9859	F-I
S7 vs. S8	-0,1133	-0,6533 to 0,4266	No	ns	0,9974	G-H
S7 vs. S9	-0,05667	-0,5966 to 0,4833	No	ns	>0,9999	G-I
S8 vs. S9	0,05667	-0,4833 to 0,5966	No	ns	>0,9999	H-I

Lampiran 44. Hasil uji statistik *t-test* pada pH stasiun 1 pasang perbani dan pasang purnama

Table Analyzed	S1
Column B	S1 Purnama
vs.	vs,
Column A	S1 Perbani
Unpaired t test	
P value	0,0102
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=4,577, df=4
How big is the difference?	
Mean of column A	7,673
Mean of column B	7,833
Difference between means (B - A) ± SEM	0,1600 ± 0,03496
95% confidence interval	0,06293 to 0,2571
R squared (eta squared)	0,8397
F test to compare variances	
F, DFn, Dfd	2,548, 2, 2
P value	0,5636
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 45. Hasil uji statistik *t-test* pada pH stasiun 2 pasang perbani dan pasang purnama

Table Analyzed	S2
Column B	S2 Purnama
vs.	vs,
Column A	S2 Perbani
Unpaired t test	
P value	0,1406
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=1,834, df=4
How big is the difference?	
Mean of column A	7,767
Mean of column B	7,67
Difference between means (B - A) ± SEM	-0,09667 ± 0,05270
95% confidence interval	-0,2430 to 0,04966
R squared (eta squared)	0,4568
F test to compare variances	
F, DFn, Dfd	1,137, 2, 2
P value	0,936
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 46. Hasil uji statistik *t-test* pada pH stasiun 3 pasang perbani dan pasang purnama

Table Analyzed	S3
Column B	S3 Purnama
vs.	vs,
Column A	S3 Perbani
Unpaired t test	
P value	0,4864
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=0,7660, df=4
How big is the difference?	
Mean of column A	7,82
Mean of column B	7,773
Difference between means (B - A) ± SEM	-0,04667 ± 0,06092
95% confidence interval	-0,2158 to 0,1225
R squared (eta squared)	0,1279
F test to compare variances	
F, DFn, Dfd	4,475, 2, 2
P value	0,3653
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 47. Hasil uji statistik *t-test* pada pH stasiun 4 pasang perbani dan pasang purnama

Table Analyzed	S4
Column B	S4 Purnama
vs.	vs,
Column A	S4 Perbani
Unpaired t test	
P value	0,7471
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=0,3455, df=4
How big is the difference?	
Mean of column A	7,747
Mean of column B	7,7
Difference between means (B - A) ± SEM	-0,04667 ± 0,1351
95% confidence interval	-0,4217 to 0,3284
R squared (eta squared)	0,02898
F test to compare variances	
F, DFn, Dfd	6,567, 2, 2
P value	0,2643
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 48. Hasil uji statistik *t-test* pada pH stasiun 5 pasang perbani dan pasang purnama

Table Analyzed	S5
Column B	S5 Purnama
vs.	vs,
Column A	S5 Perbani
Unpaired t test	
P value	0,0217
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=3,652, df=4
How big is the difference?	
Mean of column A	7,83
Mean of column B	7,66
Difference between means (B - A) ± SEM	-0,1700 ± 0,04655
95% confidence interval	-0,2992 to -0,04076
R squared (eta squared)	0,7693
F test to compare variances	
F, DFn, Dfd	1,321, 2, 2
P value	0,8615
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 49. Hasil uji statistik *t-test* pada pH stasiun 6 pasang perbani dan pasang purnama

Table Analyzed	S6
Column B	S6 Purnama
vs.	vs,
Column A	S6 Perbani
Unpaired t test	
P value	0,0584
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=2,627, df=4
How big is the difference?	
Mean of column A	7,86
Mean of column B	7,717
Difference between means (B - A) ± SEM	-0,1433 ± 0,05457
95% confidence interval	-0,2948 to 0,008175
R squared (eta squared)	0,633
F test to compare variances	
F, DFn, Dfd	1,393, 2, 2
P value	0,8358
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 50. Hasil uji statistik *t-test* pada pH stasiun 7 pasang perbani dan pasang purnama

Table Analyzed	S7
Column B	S7 Purnama
vs.	vs,
Column A	S7 Perbani
Unpaired t test	
P value	0,3185
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=1,138, df=4
How big is the difference?	
Mean of column A	7,96
Mean of column B	7,807
Difference between means (B - A) ± SEM	-0,1533 ± 0,1347
95% confidence interval	-0,5273 to 0,2207
R squared (eta squared)	0,2447
F test to compare variances	
F, DFn, Dfd	12,96, 2, 2
P value	0,1433
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 51. Hasil uji statistik *t-test* pada pH stasiun 8 pasang perbani dan pasang purnama

Table Analyzed	S8
Column B	S8 Purnama
vs.	vs,
Column A	S8 Perbani
Unpaired t test	
P value	0,696
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=0,4201, df=4
How big is the difference?	
Mean of column A	7,96
Mean of column B	7,92
Difference between means (B - A) ± SEM	-0,04000 ± 0,09522
95% confidence interval	-0,3044 to 0,2244
R squared (eta squared)	0,04225
F test to compare variances	
F, DFn, Dfd	1,804, 2, 2
P value	0,7132
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 52. Hasil uji statistik *t-test* pada pH stasiun 9 pasang perbani dan pasang purnama

Table Analyzed	S9
Column B	S9 Purnama
vs.	vs,
Column A	S9 Perbani
Unpaired t test	
P value	0,7489
P value summary	ns
Significantly different (P < 0.05)?	No
One- or two-tailed P value?	Two-tailed
t, df	t=0,3429, df=4
How big is the difference?	
Mean of column A	7,953
Mean of column B	7,863
Difference between means (B - A) ± SEM	-0,09000 ± 0,2625
95% confidence interval	-0,8187 to 0,6387
R squared (eta squared)	0,02856
F test to compare variances	
F, DFn, Dfd	11,89, 2, 2
P value	0,1552
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 53. Hasil uji statistik *One-way* ANOVA pada kecerahan periode bulan perbani

Table Analyzed	Kecerahan					
Data sets analyzed	A-I					
ANOVA summary						
F	316,1					
P value	<0,0001					
P value summary	****					
Significant diff. among means (P < 0.05)?	Yes					
R square	0,9929					
Brown-Forsythe test						
F (DFn, DFd)	0,4489 (8, 18)					
P value	0,8755					
P value summary	ns					
Are SDs significantly different (P < 0.05)?	No					
Bartlett's test						
Bartlett's statistic (corrected)						
P value						
P value summary						
Are SDs significantly different (P < 0.05)?						
ANOVA table	SS	DF	MS	F (DFn, DFd)	P value	
Treatment (between columns)	16,58	8	2,072	F (8, 18) = 316,1	P<0,0001	
Residual (within columns)	0,118	18	0,006556			
Total	16,7	26				
Data summary						
Number of treatments (columns)	9					
Number of values (total)	27					

Lampiran 54. Hasil uji lanjut *One-way* ANOVA pada kecerahan periode bulan perbani

Tukey's multiple comparisons test	Mean Diff,	95,00% CI of diff,	Significant?	Summary	Adjusted P Value	
S1 vs. S2	-0,34	-0,5716 to -0,1084	Yes	**	0,0017	A-B
S1 vs. S3	-0,6633	-0,8950 to -0,4317	Yes	****	<0,0001	A-C
S1 vs. S4	-0,8833	-1,115 to -0,6517	Yes	****	<0,0001	A-D
S1 vs. S5	-1,667	-1,898 to -1,435	Yes	****	<0,0001	A-E
S1 vs. S6	-2,407	-2,638 to -2,175	Yes	****	<0,0001	A-F
S1 vs. S7	-1,55	-1,782 to -1,318	Yes	****	<0,0001	A-G
S1 vs. S8	-2,273	-2,505 to -2,042	Yes	****	<0,0001	A-H
S1 vs. S9	-1,097	-1,328 to -0,8650	Yes	****	<0,0001	A-I
S2 vs. S3	-0,3233	-0,5550 to -0,09170	Yes	**	0,0029	B-C
S2 vs. S4	-0,5433	-0,7750 to -0,3117	Yes	****	<0,0001	B-D
S2 vs. S5	-1,327	-1,558 to -1,095	Yes	****	<0,0001	B-E
S2 vs. S6	-2,067	-2,298 to -1,835	Yes	****	<0,0001	B-F
S2 vs. S7	-1,21	-1,442 to -0,9784	Yes	****	<0,0001	B-G
S2 vs. S8	-1,933	-2,165 to -1,702	Yes	****	<0,0001	B-H
S2 vs. S9	-0,7567	-0,9883 to -0,5250	Yes	****	<0,0001	B-I
S3 vs. S4	-0,22	-0,4516 to 0,01164	No	ns	0,0702	C-D
S3 vs. S5	-1,003	-1,235 to -0,7717	Yes	****	<0,0001	C-E
S3 vs. S6	-1,743	-1,975 to -1,512	Yes	****	<0,0001	C-F
S3 vs. S7	-0,8867	-1,118 to -0,6550	Yes	****	<0,0001	C-G
S3 vs. S8	-1,61	-1,842 to -1,378	Yes	****	<0,0001	C-H
S3 vs. S9	-0,4333	-0,6650 to -0,2017	Yes	***	0,0001	C-I
S4 vs. S5	-0,7833	-1,015 to -0,5517	Yes	****	<0,0001	D-E
S4 vs. S6	-1,523	-1,755 to -1,292	Yes	****	<0,0001	D-F
S4 vs. S7	-0,6667	-0,8983 to -0,4350	Yes	****	<0,0001	D-G
S4 vs. S8	-1,39	-1,622 to -1,158	Yes	****	<0,0001	D-H
S4 vs. S9	-0,2133	-0,4450 to 0,01830	No	ns	0,085	D-I
S5 vs. S6	-0,74	-0,9716 to -0,5084	Yes	****	<0,0001	E-F
S5 vs. S7	0,1167	-0,1150 to 0,3483	No	ns	0,7025	E-G
S5 vs. S8	-0,6067	-0,8383 to -0,3750	Yes	****	<0,0001	E-H
S5 vs. S9	0,57	0,3384 to 0,8016	Yes	****	<0,0001	E-I
S6 vs. S7	0,8567	0,6250 to 1,088	Yes	****	<0,0001	F-G
S6 vs. S8	0,1333	-0,09830 to 0,3650	No	ns	0,5516	F-H
S6 vs. S9	1,31	1,078 to 1,542	Yes	****	<0,0001	F-I
S7 vs. S8	-0,7233	-0,9550 to -0,4917	Yes	****	<0,0001	G-H
S7 vs. S9	0,4533	0,2217 to 0,6850	Yes	****	<0,0001	G-I
S8 vs. S9	1,177	0,9450 to 1,408	Yes	****	<0,0001	H-I

Lampiran 55. Hasil uji statistik *One-way* ANOVA pada kecerahan periode bulan purnama

Table Analyzed	Kecerahan				
Data sets analyzed	A-I				
ANOVA summary					
F	1,89				
P value	0,1249				
P value summary	ns				
Significant diff. among means (P < 0.05)?	No				
R square	0,4565				
Brown-Forsythe test					
F (DFn, DFd)	0,2684 (8, 18)				
P value	0,9684				
P value summary	ns				
Are SDs significantly different (P < 0.05)?	No				
Bartlett's test					
Bartlett's statistic (corrected)					
P value					
P value summary					
Are SDs significantly different (P < 0.05)?					
ANOVA table	SS	DF	MS	F (DFn, DFd)	P value
Treatment (between columns)	0,2351	8	0,02939	F (8, 18) = 1,890	P=0,1249
Residual (within columns)	0,2799	18	0,01555		
Total	0,515	26			
Data summary					
Number of treatments (columns)	9				
Number of values (total)	27				

Lampiran 56. Hasil uji lanjut *One-way* ANOVA pada kecerahan periode bulan purnama

Tukey's multiple comparisons test	Mean Diff,	95,00% CI of diff,	Significant?	Summary	Adjusted P Value	
S1 vs. S2	-0,1167	-0,4734 to 0,2401	No	ns	0,9582	A-B
S1 vs. S3	-0,1767	-0,5334 to 0,1801	No	ns	0,7195	A-C
S1 vs. S4	-0,01333	-0,3701 to 0,3434	No	ns	>0,9999	A-D
S1 vs. S5	-0,02667	-0,3834 to 0,3301	No	ns	>0,9999	A-E
S1 vs. S6	-0,03333	-0,3901 to 0,3234	No	ns	>0,9999	A-F
S1 vs. S7	-0,3	-0,6567 to 0,05673	No	ns	0,1415	A-G
S1 vs. S8	-0,05	-0,4067 to 0,3067	No	ns	0,9999	A-H
S1 vs. S9	-0,15	-0,5067 to 0,2067	No	ns	0,8536	A-I
S2 vs. S3	-0,06	-0,4167 to 0,2967	No	ns	0,9995	B-C
S2 vs. S4	0,1033	-0,2534 to 0,4601	No	ns	0,9792	B-D
S2 vs. S5	0,09	-0,2667 to 0,4467	No	ns	0,9912	B-E
S2 vs. S6	0,08333	-0,2734 to 0,4401	No	ns	0,9946	B-F
S2 vs. S7	-0,1833	-0,5401 to 0,1734	No	ns	0,6814	B-G
S2 vs. S8	0,06667	-0,2901 to 0,4234	No	ns	0,9988	B-H
S2 vs. S9	-0,03333	-0,3901 to 0,3234	No	ns	>0,9999	B-I
S3 vs. S4	0,1633	-0,1934 to 0,5201	No	ns	0,791	C-D
S3 vs. S5	0,15	-0,2067 to 0,5067	No	ns	0,8536	C-E
S3 vs. S6	0,1433	-0,2134 to 0,5001	No	ns	0,8808	C-F
S3 vs. S7	-0,1233	-0,4801 to 0,2334	No	ns	0,9435	C-G
S3 vs. S8	0,1267	-0,2301 to 0,4834	No	ns	0,9351	C-H
S3 vs. S9	0,02667	-0,3301 to 0,3834	No	ns	>0,9999	C-I
S4 vs. S5	-0,01333	-0,3701 to 0,3434	No	ns	>0,9999	D-E
S4 vs. S6	-0,02	-0,3767 to 0,3367	No	ns	>0,9999	D-F
S4 vs. S7	-0,2867	-0,6434 to 0,07006	No	ns	0,1773	D-G
S4 vs. S8	-0,03667	-0,3934 to 0,3201	No	ns	>0,9999	D-H
S4 vs. S9	-0,1367	-0,4934 to 0,2201	No	ns	0,9049	D-I
S5 vs. S6	-0,006667	-0,3634 to 0,3501	No	ns	>0,9999	E-F
S5 vs. S7	-0,2733	-0,6301 to 0,08340	No	ns	0,2203	E-G
S5 vs. S8	-0,02333	-0,3801 to 0,3334	No	ns	>0,9999	E-H
S5 vs. S9	-0,1233	-0,4801 to 0,2334	No	ns	0,9435	E-I
S6 vs. S7	-0,2667	-0,6234 to 0,09006	No	ns	0,2446	F-G
S6 vs. S8	-0,01667	-0,3734 to 0,3401	No	ns	>0,9999	F-H
S6 vs. S9	-0,1167	-0,4734 to 0,2401	No	ns	0,9582	F-I
S7 vs. S8	0,25	-0,1067 to 0,6067	No	ns	0,3138	G-H
S7 vs. S9	0,15	-0,2067 to 0,5067	No	ns	0,8536	G-I
S8 vs. S9	-0,1	-0,4567 to 0,2567	No	ns	0,983	H-I

Lampiran 57. Hasil uji statistik *t-test* pada kecerahan stasiun 1 pasang perbani dan pasang purnama

Table Analyzed	S1
Column B	S1 Purnama
vs.	vs,
Column A	S1 Perbani
Unpaired t test	
P value	0,0121
P value summary	*
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=4,353, df=4
How big is the difference?	
Mean of column A	0,6533
Mean of column B	0,4167
Difference between means (B - A) ± SEM	-0,2367 ± 0,05437
95% confidence interval	-0,3876 to -0,08573
R squared (eta squared)	0,8257
F test to compare variances	
F, DFn, Dfd	1,923, 2, 2
P value	0,6842
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 58. Hasil uji statistik *t-test* pada kecerahan stasiun 2 pasang perbani dan pasang purnama

Table Analyzed	S2
Column B	S2 Purnama
vs.	vs,
Column A	S2 Perbani
Unpaired t test	
P value	0,0024
P value summary	**
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=6,866, df=4
How big is the difference?	
Mean of column A	0,9933
Mean of column B	0,5333
Difference between means (B - A) ± SEM	-0,4600 ± 0,06700
95% confidence interval	-0,6460 to -0,2740
R squared (eta squared)	0,9218
F test to compare variances	
F, DFn, Dfd	4,114, 2, 2
P value	0,3911
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 59. Hasil uji statistik *t-test* pada kecerahan stasiun 3 pasang perbani dan pasang purnama

Table Analyzed	S3
Column B	S3 Purnama
vs.	vs,
Column A	S3 Perbani
Unpaired t test	
P value	0,0008
P value summary	***
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=9,097, df=4
How big is the difference?	
Mean of column A	1,317
Mean of column B	0,5933
Difference between means (B - A) ± SEM	-0,7233 ± 0,07951
95% confidence interval	-0,9441 to -0,5026
R squared (eta squared)	0,9539
F test to compare variances	
F, DFn, Dfd	4,690, 2, 2
P value	0,3515
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 60. Hasil uji statistik *t-test* pada kecerahan stasiun 4 pasang perbani dan pasang purnama

Table Analyzed	S4
Column B	S4 Purnama
vs.	vs,
Column A	S4 Perbani
Unpaired t test	
P value	<0,0001
P value summary	****
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=18,59, df=4
How big is the difference?	
Mean of column A	1,537
Mean of column B	0,43
Difference between means (B - A) ± SEM	-1,107 ± 0,05954
95% confidence interval	-1,272 to -0,9414
R squared (eta squared)	0,9886
F test to compare variances	
F, DFn, Dfd	3,253, 2, 2
P value	0,4702
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 61. Hasil uji statistik *t-test* pada kecerahan stasiun 5 pasang perbani dan pasang purnama

Table Analyzed	S5
Column B	S5 Purnama
vs.	vs,
Column A	S5 Perbani
Unpaired t test	
P value	0,0001
P value summary	***
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=15,00, df=4
How big is the difference?	
Mean of column A	2,32
Mean of column B	0,4433
Difference between means (B - A) ± SEM	-1,877 ± 0,1251
95% confidence interval	-2,224 to -1,529
R squared (eta squared)	0,9825
F test to compare variances	
F, DFn, Dfd	9,915, 2, 2
P value	0,1832
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 62. Hasil uji statistik *t-test* pada kecerahan stasiun 6 pasang perbani dan pasang purnama

Table Analyzed	S6
Column B	S6 Purnama
vs.	vs,
Column A	S6 Perbani
Unpaired t test	
P value	<0,0001
P value summary	****
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=27,11, df=4
How big is the difference?	
Mean of column A	3,06
Mean of column B	0,45
Difference between means (B - A) ± SEM	-2,610 ± 0,09626
95% confidence interval	-2,877 to -2,343
R squared (eta squared)	0,9946
F test to compare variances	
F, DFn, Dfd	1,699, 2, 2
P value	0,741
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 63. Hasil uji statistik *t-test* pada kecerahan stasiun 7 pasang perbani dan pasang purnama

Table Analyzed	S7
Column B	S7 Purnama
vs.	vs,
Column A	S7 Perbani
Unpaired t test	
P value	<0,0001
P value summary	****
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=16,30, df=4
How big is the difference?	
Mean of column A	2,203
Mean of column B	0,7167
Difference between means (B - A) ± SEM	-1,487 ± 0,09123
95% confidence interval	-1,740 to -1,233
R squared (eta squared)	0,9852
F test to compare variances	
F, DFn, Dfd	14,29, 2, 2
P value	0,1308
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 64. Hasil uji statistik *t-test* pada kecerahan stasiun 8 pasang perbani dan pasang purnama

Table Analyzed	S8
Column B	S8 Purnama
vs.	vs,
Column A	S8 Perbani
Unpaired t test	
P value	<0,0001
P value summary	****
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=24,02, df=4
How big is the difference?	
Mean of column A	2,927
Mean of column B	0,4667
Difference between means (B - A) ± SEM	-2,460 ± 0,1024
95% confidence interval	-2,744 to -2,176
R squared (eta squared)	0,9931
F test to compare variances	
F, DFn, Dfd	1,013, 2, 2
P value	0,9936
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 65. Hasil uji statistik *t-test* pada kecerahan stasiun 9 pasang perbani dan pasang purnama

Table Analyzed	S9
Column B	S9 Purnama
vs.	vs,
Column A	S9 Perbani
Unpaired t test	
P value	<0,0001
P value summary	****
Significantly different (P < 0.05)?	Yes
One- or two-tailed P value?	Two-tailed
t, df	t=16,29, df=4
How big is the difference?	
Mean of column A	1,75
Mean of column B	0,5667
Difference between means (B - A) ± SEM	-1,183 ± 0,07265
95% confidence interval	-1,385 to -0,9816
R squared (eta squared)	0,9851
F test to compare variances	
F, DFn, Dfd	1,714, 2, 2
P value	0,7368
P value summary	ns
Significantly different (P < 0.05)?	No
Data analyzed	
Sample size, column A	3

Lampiran 66. Dokumentasi Lapangan




CURRICULUM VITAE

A. Data Pribadi

1. Nama	: Sitti Nur Najmia Ilham
2. Tempa,tgl lahir	: Watansoppeng, 25 Oktober 2002
3. Alamat	: Jl. Pasar No. 83, Kab. Soppeng
4. Kewarganegaraan	: Indonesia

B. Riwayat Pendidikan
   1. SDN 3 Lemba (2008-2014)
   2. SMPN 1 Watansoppeng (2014-2017)
   3. SMAN 1 Soppeng (2017-2020)
   4. Universitas Hasanuddin (2020-2024)

C. Pengalaman Organisasi
   1. Sekretaris Umum KMP MSP KEMAPI FIKP UNHAS 2023-2024