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Potential of field turbidity measurements for computation of total suspended solid in Tasik Kenyir , Terengganu , Malaysia (Article)

Kamarudin, M.K.A.^{a,b}✉, Wahab, N.A.^b, Samah, M.A.A.^c, Baharim, N.B.^d, Mostapa, R.^e, Umar, R.^b, Maulud, K.N.A.^f, Arifin, M.H.^g, Saad, M.H.M.^{a,h}, Md Bati, S.N.A.^a✉✉✉

^aFaculty of Applied and Social Sciences, Universiti Sultan Zainal Abidin, Gong Badak Campus, Kuala Nerus, Malaysia Selangor 21300, Malaysia

^bEast Coast Environmental Research Institute (ESERI), Universiti Sultan Zainal Abidin, Gong Badak Campus, Kuala Nerus, Malaysia Selangor 21300, Malaysia

^cKulliyyah of Science, International Islamic University Malaysia, Jalan Sultan Ahmad Shah, Bandar Indera Mahkota, Kuantan, Pahang Darul Makmur 25200, Malaysia

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Abstract

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The urbanization has significant effects on watershed hydrology and the quality of water in this catchment. One component of water quality is total suspended solids (TSS) which a significant part of physical and degradation and a good indicator of other pollutants on the surface of sediment in suspension. The purpose of this study is to

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Abd Wahab, N. , Kamarudin, M.K.A. , Toriman, M.E. (2018) *International Journal of Engineering and Technology(UAE)*

investigate whether turbidity could produce a satisfactory estimate of TSS in urbanizing at the Tasik Kenyir . TSS and Turbidity were analyzed based on in -situ and ex-situ analyses were carried out according to the correlation matrix and linear regression methods at 14 (10–140 m) different depths for two sampling locations in the Tasik Kenyir (which are Chomor River and Mahadir Island-the name of sampling location in Tasik Kenyir), using data compiled. A log-linear model showed a strong positive correlation between TSS and Turbidity with is ($R^2 = 0.991$ for Chomor River and $R^2 = 0.995$ for Mahadir Island) with a regression equation of $\ln(TSS) = 1.32 \ln(NTU) + C$, with C not significantly different. From the result, water quality parameter (TSS and Turbidity) showed outlet significantly which decreased over depth caused the water quality deterioration of Tasik Kenyir development. These results strongly suggest that turbidity is a suitable monitoring parameter where water-quality conditions must be evaluated. © 2020. The Author(s). Published by Desalination Publications.

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Prominence percentile: 94.207 [i](#)

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[Tasik Kenyir](#) [Total suspended solid](#) [Turbidity](#) [Urbanization](#)

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Assessing of water quality and sedimentation problems in lata sungai limau, Malaysia

Kamarudin, M.K.A. , Wahab, N.A. , Samah, M.A.A.
(2020) *Desalination and Water Treatment*

Assessment of environmental management in Lake Toba, Samosir Regency, North Sumatera Province, Indonesia

Sianturi, N.M. , Kamarudin, M.K.A. , Toriman, M.E.
(2018) *International Journal of Engineering and Technology(UAE)*

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- 1 Sincock, A.M., Wheater, H.S., Whitehead, P.G.
Calibration and sensitivity analysis of a river water quality model under unsteady flow conditions

(2003) *Journal of Hydrology*, 277 (3-4), pp. 214-229. Cited 46 times.

www.elsevier.com/inca/publications/store/5/0/3/3/4/3

doi: 10.1016/S0022-1694(03)00127-6

[View at Publisher](#)

2 Sun, P., Zhang, Q., Lu, X., Bai, Y.

Changing properties of low flow of the Tarim River basin: Possible causes and implications

(2012) *Quaternary International*, 282, pp. 78-86. Cited 17 times.

doi: 10.1016/j.quaint.2012.07.013

[View at Publisher](#)

3 Kamarudin, M.K.A., Toriman, M.E., Rosli, M.H., Juahir, H., Aziz, N.A.A., Azid, A., Zainuddin, S.F.M., (...), Sulaiman, W.N.A.

Analysis of meander evolution studies on effect from land use and climate change at the upstream reach of the Pahang River, Malaysia

(2015) *Mitigation and Adaptation Strategies for Global Change*, 20 (8), pp. 1319-1334. Cited 36 times.

www.wkap.nl/journalhome.htm/1381-2386

doi: 10.1007/s11027-014-9547-6

[View at Publisher](#)

4 Ab Rani, N.S., Toriman, M.E., Idris, M.H., Kamarudin, M.K.A.

Muatan Sedimen Terampai Dan Perkaitannya Dengan Penghasilan Muatan Sedimen Pada Musim Kering Dan Hujan di Tasik Chini

(2009) *Pahang, e-BANGI*, 4, pp. 7-14.

5 Din, H.M., Toriman, M.E., Mokhtar, M., Elfithri, R., Aziz, N.A.A., Abdullah, N.M., Kamarudin, M.K.A.

Loading concentrations of pollutant in Alur Ilmu at UKM Bangi campus: Event mean concentration (EMC) approach

(2012) *Malaysian Journal of Analytical Sciences*, 16 (3), pp. 353-365. Cited 24 times.

http://www.ukm.my/mjas/v16_n3/Haslinur.pdf

6 Pesce, S.F., Wunderlin, D.A.

Use of water quality indices to verify the impact of Cordoba City (Argentina) on Suquia River

(2000) *Water Research*, 34 (11), pp. 2915-2926. Cited 381 times.

www.elsevier.com/locate/watres

doi: 10.1016/S0043-1354(00)00036-1

[View at Publisher](#)

7 Singh, S., Kanhaiya, S., Singh, A., Chaubey, K.

Drainage network characteristics of the Ghaghgar River Basin (GRB), Son Valley, India

(2019) *Geol. Ecol. Landscapes*, 3, pp. 159-167. Cited 11 times.

8 Ali, S.N.M., Kammoo, M.F., Ali, N.N.N., Miskon, M.F.

Distribution pattern of rare earth elements in soft tissue of *Saccostrea Cucullata* in Terengganu and East Johor coastal waters

(2019) *J. Clean WAS*, 3, pp. 14-19. Cited 6 times.

9 Gazi, Md.Y., Islam, Md.A., Hossain, S.

Flood-hazard mapping in a regional scale – way forward to the future hazard atlas in Bangladesh

(2019) *Malaysian J. Geosci*, 3, pp. 1-11. Cited 3 times.

- 10 Molla, M.A.I., Furukawa, M., Tateishi, I., Katsumata, H., Suzuki, T., Kaneco, S.
Photocatalytic degradation of fenitrothion in water with tio2 under solar irradiation
(Open Access)

(2018) *Water Conservation and Management*, 2 (2), pp. 1-5. Cited 9 times.
<https://www.watconman.org/archives-pdf/2wcm2018/2wcm2018-01-05.pdf>
doi: 10.26480/wcm.02.2018.01.05

[View at Publisher](#)

- 11 Dali, N.M., Kamarudin, K.S.N.
The effect of cosurfactant in Co₂ absorption in water-in-oil emulsion
(2018) *Environ. Ecosyst. Sci*, 2, pp. 42-46. Cited 6 times.

- 12 Suratman, S., Mohd Sailan, M.I., Hee, Y.Y., Bedurus, E.A., Latif, M.T.
A preliminary study of water quality index in Terengganu River basin, Malaysia
(Open Access)

(2015) *Sains Malaysiana*, 44 (1), pp. 67-73. Cited 25 times.
http://www.ukm.my/jsm/pdf_files/SM-PDF-44-01-2015/10%20S.%20Suratman.pdf
doi: 10.17576/jsm-2015-4401-10

[View at Publisher](#)

- 13 Zampella, R.A., Bunnell, J.F., Laidig, K.J., Procopio, N.A.
Using multiple indicators to evaluate the ecological integrity of a coastal plain stream system

(2006) *Ecological Indicators*, 6 (4), pp. 644-663. Cited 41 times.
doi: 10.1016/j.ecolind.2005.08.027

[View at Publisher](#)

14 Simões, F.d.S., Moreira, A.B., Bisinoti, M.C., Gimenez, S.M.N., Yabe, M.J.S.

Water quality index as a simple indicator of aquaculture effects on aquatic bodies

(2008) *Ecological Indicators*, 8 (5), pp. 476-484. Cited 134 times.

doi: 10.1016/j.ecolind.2007.05.002

[View at Publisher](#)

15 Amri Kamarudin, M.K., Idris, M., Toriman, M.E.

Analysis of Leptobarbus hoevenii in control environment at natural lakes [\(Open Access\)](#)

(2013) *American Journal of Agricultural and Biological Science*, 8 (2), pp. 142-148. Cited 21 times.

<http://thescipub.com/pdf/10.3844/ajabssp.2013.142.148>

doi: 10.3844/ajabssp.2013.142.148

[View at Publisher](#)

16 Azid, A., Juahir, H., Toriman, M.E., Endut, A., Kamarudin, M.K.A., Rahman, M.N.A., Hasnam, C.N.C., (...), Yunus, K.

Source apportionment of air pollution: A case study in Malaysia

(2015) *Jurnal Teknologi*, 72 (1), pp. 83-88. Cited 23 times.

<http://www.jurnalteknologi.utm.my/index.php/jurnalteknologi/article/view/2934/2789>

doi: 10.11113/jt.v72.2934

[View at Publisher](#)

17 Sharip, Z., Zaki, A.T.A., Shapai, M.A.H.M., Suratman, S., Shaaban, A.J.

Lakes of Malaysia: Water quality, eutrophication and management

(2014) *Lakes and Reservoirs: Research and Management*, 19 (2), pp. 130-141. Cited 24 times.

www.blacksci.co.uk/~cgilib/jnlpage.bin?Journal=xlare&File=xlare&Page=aims

doi: 10.1111/lre.12059

[View at Publisher](#)

- 18 Kamaruddin, A.F., Toriman, M.E., Juahir, H., Zain, S.M., Rahman, M.N.A., Amri Kamarudin, M.K., Azid, A. Spatial characterization and identification sources of pollution using multivariate analysis at Terengganu River Basin, Malaysia ([Open Access](#))

(2015) *Jurnal Teknologi*, 77 (1), pp. 269-273. Cited 24 times.

<http://www.jurnalteknologi.utm.my/index.php/jurnalteknologi/article/download/4054/3964>

doi: 10.11113/jt.v77.4054

[View at Publisher](#)

- 19 Kamarudin, M.K.A., Toriman, M.E., Sharifah Mastura, S.A., Idris, M.H., Jamil, N.R., Gasim, M.B. Temporal variability on lowland river sediment properties and yield (2009) *Am. J. Environ. Sci*, 5, pp. 657-663. Cited 36 times.

- 20 Toriman, M.E., Gasim, M.B., Yusop, Z., Shahid, I., Mastura, S.A.S., Abdullah, P., Jaafar, M., (...), Jamil, N.R. Use of ^{137}Cs activity to investigate sediment movement and transport modeling in river coastal environment ([Open Access](#))

(2012) *American Journal of Environmental Sciences*, 8 (4), pp. 417-423. Cited 22 times.

<http://thescipub.com/pdf/10.3844/ajessp.2012.417.423>

doi: 10.3844/ajessp.2012.417.423

[View at Publisher](#)

- 21 Ismail, A., Toriman, M.E., Juahir, H., Zain, S.M., Habir, N.L.A., Retnam, A., Kamaruddin, M.K.A., (...), Azid, A. Spatial assessment and source identification of heavy metals pollution in surface water using several chemometric techniques ([Open Access](#))

(2016) *Marine Pollution Bulletin*, 106 (1-2), pp. 292-300. Cited 51 times.

www.elsevier.com/locate/marpolbul

doi: 10.1016/j.marpolbul.2015.10.019

[View at Publisher](#)

22 Kamarudin, M.K.A., Toriman, M.E., Wahab, N.A., Rosli, H., Ata, F.M., Faudzi, M.N.M.

Sedimentation study on upstream reach of selected rivers in Pahang River Basin, Malaysia ([Open Access](#))

(2017) *International Journal on Advanced Science, Engineering and Information Technology*, 7 (1), pp. 35-41. Cited 18 times.

<http://www.insightsociety.org/ojaseit/index.php/ijaseit/article/download/971/948>

doi: 10.18517/ijaseit.7.1.971

[View at Publisher](#)

23 Wahab, N.A., Kamarudin, M.K.A., Gasim, M.B., Umar, R., Ata, F.M., Sulaiman, N.H.

Assessment of total suspended sediment and bed sediment grains in upstream areas of Lata Berangin, Terengganu ([Open Access](#))

(2016) *International Journal on Advanced Science, Engineering and Information Technology*, 6 (5), pp. 757-763. Cited 26 times.

<http://www.insightsociety.org/ojaseit/index.php/ijaseit/article/download/994/875>

doi: 10.18517/ijaseit.6.5.994

[View at Publisher](#)

24 (2008) *Malaysia Environmental Quality Report*, p. 86. Cited 23 times.

DOE Department of Environment, Ministry of Natural Resources and Environment Malaysia, Kuala Lumpur, 2008

✉ Kamarudin, M.K.A.; Faculty of Applied and Social Sciences, Universiti Sultan Zainal Abidin, Gong Badak Campus, Kuala Nerus, Malaysia Selangor, Malaysia; email:mkhairulamri@unisza.edu.my

✉ Kamarudin, M.K.A.; East Coast Environmental Research Institute (ESERI), Universiti Sultan Zainal Abidin, Gong Badak Campus, Kuala Nerus, Malaysia Selangor, Malaysia; email:mkhairulamri@unisza.edu.my

✉ Samah, M.A.A.; Kulliyyah of Science, International Islamic University Malaysia, Jalan Sultan Ahmad Shah, Bandar Indera Mahkota, Kuantan, Pahang Darul Makmur, Malaysia

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