

REFERENCES



- Babcock, R.W., King, S., Khan, E., and Stenstrom, M.K. (2001). "Use of Biodegradable Dissolved Organic Carbon to Assess Treatment Process Performance in Relation to Solids Retention Time." *Water Environ. Res.* 73(5): 517-525.
- Benjamin, M.M., Croué, J.-P., and Korshin, G.V. (1999) Characterization of Natural Organic Matter in Drinking Water. *AWWA Research Foundation and Amer. Water Works Assoc.* Denver, CO. ISBN 1-58321-015-6. 324 pages.
- Duguet, J.P., Brodard, E., Roustan, M., and Mallevalle, J. (1986). "An Automated Procedure for Monitoring the Effectiveness of Ozonation Processes." *Ozone Sci. and Eng.* 8(4): 321-338.
- Edzwald, J.K., Becker, W.C., and Wattier, K.L. (1985). "Surrogate Parameters for Monitoring Organic Matter and THM Precursors." *J. Amer. Water Works Assoc.* 77(4): 122-132.
- Edzwald, J.K. and Gong, B. (1981) "Seasonal Evaluation of Organics Removal at a Conventional Water Treatment Plant." *Proc Am. Water Works Assoc. Ann. Conf.*: 655-666.
- Edzwald, J.K., and Van Benschoten, J.E. (1990). "Aluminum Coagulation of Natural Organic Matter" *Chemical Water and Wastewater Treatment*. October 1-3, 1990, Madrid, Spain. Hahn, H.H. and Klute, R. (ed). Berlin.: Springer-Verlag, 341-359.
- Ellis, K.V. (1989). *Surface Water Pollution and its Control*. Chapter 1. London: Macmillan.
- Escobar, I.C., and Randall, A.A. (2001). "Assimilable Organic Carbon and Biodegradable Dissolved Organic Carbon Complementary Measurements." *Wat. Res.* 35(18): 4444-4454.
- Frías, J., Ribas, F., and Lucena, F. (1992). "A Method for a Measurement of Biodegradable Organic Carbon in Waters." *Waters Res.* 26(2): 255-258.
- Henze, M., Harremoës, P., Jansen, J. la C., and Arvin E. (2002). *Wastewater Treatment: Biological and Chemical Processes*. 3rd ed. New York. Springer: 131-203.
- Huck, P.M. (1990). "Measurement of Biodegradable Organic Matter and Bacterial Growth Potential in Drinking Water." *J. Amer. Water Works Assoc.* 82(7): 78-86.
- Joret, J.C., Levi, Y., Dupin, T., and Gilbert, M. (1988). "Rapid Method for Estimating Bio-Eliminable Organic Carbon in Water." *Proc.1988 Am. Water Works Assoc. Ann. Conf.* Orlando, Fla.: 1715-1725.
- Kaplan, L.A., and Newbold, J. D. (1995). "Measurement of Stream Water Biodegradable Dissolved Organic Carbon with a Plug-Flow Bioreactor." *Water Res.* 29(12): 2696-2706.

- Khan, E., Suffet, I.H., and Stenstrom, M.K. (1996). "Development of the Biodegradable Dissolved Organic Carbon Method for Characterizing Reclaimed Waters." Abstracts of the 4th International Biodegradable Organic Matter Conference. Waterloo, Canada. June 19-21: 37-40.
- Khan, E., Babcock, R.W., Suffet, I.H., and Stenstrom, M.K. (1998a). "Method Development for Measuring Biodegradable Organic Carbon in Reclaimed and Treated Wastewaters." *Water Environ. Res.* 70(5): 1025-1032.
- Khan, E., Babcock, R.W., Suffet, Viriyavejakul, S., I.H., and Stenstrom, M.K. (1998b). "Biodegradable Dissolved Organic Carbon for Indicating Wastewater Reclamation Plant Performance and Treated Wastewater Quality" *Water Environ. Res.* 70(5): 1033-1040.
- Khan, E., Babcock, R.W., and Stenstrom, M.K. (1999). "Factors Influencing Biodegradable Dissolved Organic Carbon Measurement." *J. Environ. Eng.* 125(6): 514-521.
- Kim, G.E. and Jeong, M.S. (1997). "Treatment of Organic Waste with Microorganisms of Mixed Population." 9th GIN Conference 2001: Wastewater and Solid Waste Management. Bangkok, Thailand.
- Lawrence, A.W., and McCarty, P.L. (1970). "Unified Basis for Biological Treatment Design and Operation." *J. Sanit. Eng. Div., ASCE.* 96: 757-778.
- Leenheer, J.A. and Croué, J.P. (2003). "Characterizing Dissolved Aquatic Organic Matter." *Environ. Sci Technol.* January 1: 19-26.
- Levine, B.B., Madireddi, K., Khan, E., Stenstrom, M.K., Ye, Q.F., Suffet, I.H. (1997). "Treatment of Trace Organic Compounds by Ozone/BAC for Wastewater Reuse: The Lake Arrowhead Pilot Plant." *Environmental Federation, Specialty Conferences Series, Beneficial Reuse of Water and Solids.* Marbella, Malaga, Spain. Apr, 1997.
- Lucena, F., Fraix, J., and Ribas, F. (1990). "A New Dynamic Approach to the Determination of Biodegradable Organic Carbon in Water." *Environ. Technol.* 12(4): 343-347.
- Metcalf & Eddy, Inc. (2003). *Wastewater Engineering: Treatment and Reuse.* 4th ed. McGraw-Hill. New York.
- Mrkva, M. (1983). "Evaluation of Correlations Between Absorbance at 254 nm and COD of River Waters." *Water Res.* 17(2): 231-235.
- Reynolds, D.M. and Ahmad, S.R. (1997). "Rapid and Direct Determination of Wastewater BOD Values Using a Fluorescence Technique." *Water Res.* 31(8): 2012-2018.
- Ribas, F., Frías, J., and Lucena, F. (1991). "A New Dynamic Method for the Rapid Determination of the Biodegradable Dissolved Organic Carbon in Drinking Water." *J. Appl. Bacteriol.* 71: 371-378.
- Ribas, F., Frías, J., Huguet, J.M. and Lucena, F. (1997). "Efficiency of Various Water Treatment Processes in the Removal of Biodegradable and Refractory Organic Matter." *Water Res.* 31(3): 639-649.

- Seo, G.T., Lee, T.S., Moon, B.H., Choi, K.S. and Lee, H.D. (1997). "Membrane Separation Activated Sludge for Residual Organic Removal in Oil Wastewater." *Water Sci. Technol.* **36**(12): 275-282.
- Servais, P., Billen, G., and Hascoet, M.C. (1987). "Determination of Biodegradable Fraction of Dissolved Organic Matter in Water." *Water Res.* **21**(4): 445-450.
- Servais, P., Anzil, A., and Ventresque, C. (1989). "Simple Method for Determination of Biodegradable Dissolved Organic Carbon in Water." *Appl. Environ. Microbiol.* **55**(10): 2732-2734.
- Servais, P., Garnier, J., Demarteau, N., Brion, N., and Billen, G. (1998). "Supply of Organic Matter and Bacteria to Aquatic Ecosystems Through Waste Water Effluents." *Water Res.* **33**(16): 3521-3531.
- Standard Methods for the Examination of Water and Wastewater* (1998). 20th ed., APHA, AWWA, and WEF. Washington, D.C.
- United States Environmental Protection Agency (2000). "Wastewater Technology Fact Sheet: Trickling Filters." EPA 832-F-00-014, EPA Office of Water. Washington, D.C.
- United States Environmental Protection Agency (2004). "Onsite Wastewater Treatment Systems Technology Fact Sheet 2: Fixed-Film Process." EPA 625/R-00/008. U.S. Environmental Agency. Cincinnati, OH.
- van der Kooij, D. and Hijnen, W.A.M. (1982). "Determining the Concentration of Easily Assimilable Organic Carbon in Drinking Water." *J. Am. Wat. Wks. Assoc.* **74**(10): 540-545.
- Wanaratna, P. (2002). "Effect of Control Parameters of Biological Wastewater Treatment Systems on Biodegradable Dissolved Organic Carbon in Effluents." *M.Sc. Thesis*. Inter-Department of Environmental Management. Chulalongkorn University.
- Wheaton, F. (1977). "Biological Filtration: Design and Operation." *Aquacultural Network Information Center*. Maryland.

BIOGRAPHY

Miss Kullapa Soratana was born on 24th of January in Bangkok, Thailand. She studied in Australia for a year and finished preliminary course requirements for high school certificate from Bathurst High School, NSW, Australia in December 1996. She received a high school diploma from Horwang School, Bangkok in March 1998. She graduated a Bachelor's degree of Science in General Science with second-class honors, Faculty of Science, Chulalongkorn University, Bangkok in 2002. Her senior project resulted in a journal publication:

Naiyanan Ariyanon, Kullapa Soratana and Thidavisuth Chunkruea (2003), "Comparison of Zinc Accumulating Efficiency between *Brassica juncea* Coss. and *Brassica chinensis* Linn.", *Journal of Scientific Research: Special Issue on Environmental & Hazardous Waste Management*, Vol. 28 Special Issue I.

She continued her study for Master's degree of Science in Environmental Management (International Program), National Research Center-Environmental and Hazardous Waste Management, Chulalongkorn University and completed in December 2004. This thesis is to fulfill partial requirement of her Master's degree. She has recently accepted at a position as an environmental scientist for an environmental consulting and services firm, Metrix Associates Company Limited.

