



DAFTAR PUSTAKA

- Ambarwati, Santi. 2002. *Pengendapan Sulfida Merkuri, Timbal dan Kadmium Menggunakan Bakteri Pereduksi Sulfat yang Diisolasi dari Cisolok dan Muara Angke*. Institut Pertanian Bogor. Bogor.
- Annisa, R. A. 2010. *Hubungan Morfologi Tanah Bekas Tambang Batubara dengan Beberapa Sifat Kimia, Fisik, dan Biologi Tanah di PT. Kaltim Prima Coal*. Institut Pertanian Bogor. Bogor.
- Anonim. 2003. *Keputusan Menteri Negara Lingkungan Hidup Nomor 113 Tahun 2003 Tentang baku Mutu Air Limbah Bagi Usaha dan atau Kegiatan Pertambangan Batubara*. Menteri Negara Lingkungan Hidup. Jakarta.
- Anonim. 2009. *Undang-Undang Republik Indonesia Nomor 4 Tahun 2009 Tentang Pertambangan Mineral dan Batubara*.
- Anonim. 2014. *Potensi dan Tantangan Pertambangan di Indonesia*. Jakarta: IMA (Terakhir diperbaharui 28 Mei 2014), diunduh pada 26 Februari 2018.
- Anonim, 2017. *Coal Market and Pricing*. <https://www.worldcoal.org/coal/coal-market-pricing> diakses pada 27 Oktober 2018.
- Anonim. 2017. *Air Asam Tambang Meluap Dua Sungai di Sekongkang Tercemar*. <http://mediaindonesia.com/read/detail/93931-air-asam-tambang-meluap-dua-sungai-di-sekongkang-tercemar> diakses pada 27 Februari 2019.
- Anonim. 2017. *Profil Taman Nasional Kutai*. <http://sitroom.tnkutai.org/index.php/sitroom-tn-kutai/profil-kawasan> diakses pada 30 Maret 2019.
- Aprianto, F.A.A. 2016. *Rekayasa Pengolahan Air Asam Tambang Secara Pasif Menggunakan Biomassa Serbuk Gergaji, Kotoran Ayam dan Bakteri Pereduksi Sulfat*. Institut Pertanian Bogor. Bogor.
- Ariyanti, V.N., Supriharyono, Widyorini, N. 2016. *Hubungan Kerapatan Lamun dengan Kelimpahan Bakteri Heterotrof di Perairan Pantai Kartini Kabupaten Jepara*. Diponegoro Journal of Maquares Volume 5 No.4: 142-149.
- Atlas, R.M. 2010. *Handbook of Microbiological Media-Fourth Edition*. ASM Press. USA.
- Austin, J.W dan Pagotto, F.J. 2003. *Detection of Foodborne Pathogens and Their Toxins*. Bureau of Microbial Hazards. Canada.



- Barton, L L. 1995. *Biotechnology Handbooks: Sulfate Reducing Bacteria*. Plenum Press. New York.
- Basu, O dan Baldwin, S. A. 2000. *Attachment and Growth of Sulphate –Reducing Bacteria on Different Support Bahan*. Environmental Technology Vol. 21: 1293-1300.
- Bratcova, S., Groudev, S., Georgiev, P. 2002. *The Effect of Some Essential Environmental Factors on The Microbial Dissimilatory Sulphate Reduction*. Mining and Mineral Processing, Sofia Vol. 44-45 part II.
- Bridge, T.A.M., White, C., Gadd, G.M. 1999. *Extracellular Metal-Binding Activity of The Sulphate Reducing Bacterium Desulfococcus multivorans*. Departement of Biological Sciences, University of Dundee. UK.
- Butlin, K.R., Adams, M.E., Thomas, M. 1949. *The Isolation and Cultivation of Sulphate Reducing Bacteria*. J. Gen. Microbiol 3: 46-59
- Chang, I.S., Shin, P.K., Kim, B.H. 1999. *Biological Treatment Of Acid Mine Drainage Under Sulphate-Reducing Conditions With Solid Waste as Substrate*. Elsevier, Wat. Res. Vol. 34 No. 4 pp. 1269-1277
- Dewani, Z. 2015. *Kajian Pemanfaatan Biomassa Daun Kayu Putih dan Bakteri Pereduksi Sulfat dalam Pengolahan Air Asam Tambang*. Institut Pertanian Bogor. Bogor.
- Dvorak, D. H., R. S. Hedin, H. M. Edenborn, dan P. E. McIntire. 1992. *Treatment of metal contaminated water using bacterial sulfate reduction: Results from pilot scale reactors*. Biotechnol. Bioeng. 40:609-616.
- Eger, P. dan Lapakko, K. 1988. *Nickel and Copper Removal From Mine Drainage by A Natural Wetland*. Proceedings America Society of Mining and Reclamation.
- Evangelou, V. P. 1995. *Pyrite Oxidation and Its Control*. CRC Press. Amerika Serikat.
- Gautama, R.S. 2012. *Pengelolaan Air Asam Tambang*. Bimbingan Teknis Reklamasi dan Pasca Tambang Pada Kegiatan Pertambangan Mineral dan Batubara. Yogyakarta.
- Hakim, A., Wibowo, A., Hasyim, D.Z., Afandi, T.T., Alimano, M., Suwondo, S., Ratnaningsih. 2009. *Penelitian Penanggulangan Air Asam Tambang pada Tambang Batubara Terbuka di Kalimantan Timur dan Kalimantan Selatan*. Puslitbang Teknologi Mineral dan Batubara.



- Handayani, H. E. 2016. *Model Pengendalian Air Asam Tambang (AAT) dengan Metode Preventif Pada penambangan Batubara Terbuka (Studi Kasus: PT. Bukit Asam (Persero) Tbk Tanjung Enim*. Universitas Sriwijaya. Palembang.
- Hard, B.C. dan Higgins, J.P. 2003. *Bioremediation of Acid Rock Drainage Using Sulphate Reducing Bacteria*. Jacques Whitford Environment Limited. Ontario.
- Hedin, R.S., Nairn, R.W., Kleinmann, R.L.P. 1994. *Passive Treatment of Coal Mine Drainage*. Bureau of Mines Information Circulation. USA.
- Holmer, M. dan Storkholm, P. *Sulphate Reduction and Sulphur Cycling in Lake Sediments: A review*. *Freshwater Biology* 46: 431-451.
- Hoskins, J.K. 1934. *Most Probable Number for Evaluation of Coliaerogenes Tests by Fermentation Tube Method*. *Public Health Reports (1896-1970)*, Vol. 49, No. 12, 393-405.
- Iskandar, S. dan Gautama, R.S. 2011. *Acid Mine Drainage Management in Indonesian Mines*. *Proceedings of the Seventh Australian Workshop on Acid and Metalliferous Drainage*.
- Indra, H., Lepong, Y., Gunawan, F., Abfertiawan, M.S. 2014. *Penerapan metode Active dan Passive Treatment dalam Pengelolaan Air Asam Tambang Site Lati*. Seminar Air Asam Tambang ke-5 dan Pasca tambang di Indonesia. Bandung.
- Johnson, D. B. 2002. *Chemical and Microbiological Characteristic of Mineral Spoils and Drainage Waters at Abandoned Coal and Metal Mines*. School of Biological Sciences, University of Wales. United Kingdom.
- Johnson, D.B. dan Hallberg, K.B. 2005. *Acid mine drainage remediation options: a review*. *Science of the Total Environment* 338: 3-14.
- Jorgensen, B. B. 1982. *Mineralization of Organic Matter in Sea Bed: The Role of Sulphate Reduction*. *Nature* Vol 296: 643-645.
- Kalin, M., Fyson, A. dan Smith, M.P. 1993. *Acid Reduction Using Microbiology*. *Proceeding of an International Hydrometallurgy Symposium*. USA.
- Kolmert, A dan Johnson, D.B. 2001. *Remediation of Acid Waste Waters Using Immobilised, Acidophilic Sulphate Reducing Bacteria*. *J. Chem. Tech. Biotech.* 76: 836-843.
- Madigan, M.T., Martinko, J.M., Bender, K.S., Buckley, D.H., Stahl, D.A. 2015. *Brock Biology of Microorganisms*. Pearson Education. USA.



- Mindasari, L. 2007. *Dampak Kegiatan Pertambangan Batubara PT. Tambang Batubara Bukit Asam (PT. BA) (Persero) TBK – Unit Produksi Ombilin (UPO) dan Tambang Batubara Tanpa Izin (PETI) Terhadap Kualitas Air Sungai Ombilin Sawahlunto*. Institut Pertanian Bogor. Bogor.
- Moodie, A.D dan Ingledeew, W.J. 1991. *Microbial Anaerobic Respiration*. Advances in Microbial Physiology. Volume 31: 225-269.
- Pelczar, M. J., Chan, E.C.S., Pelczar, M.F. 2013. *Dasar-dasar Mikrobiologi*. UI Press. Jakarta.
- Pessireron, L. G. 2016. *KPC Sustainability Report*. PT. Kaltim Prima Coal. Sangatta.
- Roohi, A., Ahmed, I., Paek, J., Sin, Y., Abbas, S., Jamil, M., Chang, Y.H. 2014. *Bacillus pakistanensis sp. Nov., A Halotolerant Bacterium Isolated from Salt Mines of The Karak Area in Pakistan*. Antonie van Leeuwenhoek 105: 1163-1172.
- Sandrawati, A. 2012. *Pengolahan Air Asam Tambang melalui Rawa Buatan Berbasis Bahan In Situ di Pertambangan Batubara (Studi kasus di Site Pertambangan Sambarata, PT. Berau Coal, Kabupaten Berau, Kalimantan Timur)*. Institut Pertanian Bogor. Bogor.
- Santoso, A.D dan Setiawan, A. 2009. *Mengapa pH Kolam Bekas Tambang Relatif Stabil?*. Jurnal Hidrosfir Indonesia Volume 4 No. 1.
- Saraswati, R., Husein, E., Simanungkalit, R.D.M. 2007. *Metode Analisis Biologi Tanah*. Balai Besar Penelitian dan Pengembangan Sumberdaya Lahan Pertanian. Bogor.
- Sembiring, Y.R.V., Andriyanto, M., Siagian, N., Widyati, E., Azwir. 2016. *Isolasi Bakteri Pereduksi Sulfat untuk Memperbaiki Sifat Kimia Tanah Bekas Tambang Batubara dan Pengaruhnya Terhadap Karet (Hevea Brasiliensis) di Polibeg*. Jurnal Penelitian Karet 2016 34(2): 165-174.
- Skousen, J.G., Hilton, T., Faulkner, B. 1990. *Overview of Acid Mine Drainage Treatment With Chemicals*. West Virginia University. USA.
- Skousen, J.G., Sexstone, A., Ziemkiewics, P.F. 2000. *Acid Mine Drainage Control and Treatment*. American Society of Agronomy and American Society for Surface Mining and Reclamation. Agronomy No. 41 Chapter 6.
- Stumm, W dan Morgan, J.J. 1996. *Aquatic Chemistry: Chemical Equilibria and Rates in Natural Waters (Third edition)*. John Wiley and Sons, Inc. Canada.



- Tuttle, J.H., Dugan, P.R., Macmillan, C.B., Randles, C. I. 1969. *Microbial Dissimilatory Sulfur Cycle in Acid Mine Water*. Journal of Bacteriology Vol. 97 No. 2: 594-602.
- Vile, M.A. dan Wieder, R.K. 1993. *Alkalinity Generation by Fe (III) Reduction Versus Sulfate Reduction in Wetlands Constructed for Acid Mine Drainage Treatment*. Water, Air and Soil Pollution 69: 425-441.
- Wahyuni, T. 2008. *Kajian Bioreaktor Untuk Pengolahan Limbah Air Asam Tambang dengan Menggunakan Bakteri Pereduksi Sulfat*. Institut Pertanian Bogor. Bogor.
- Watzlaf, GR., Schroeder, KT., Kleinmann, RLP., Kairies, CL., Nairn, RW. 2004. *The Passive Treatment of Coal Mine Drainage*. US Departement of Energy. USA.
- Yusron, M. 2009. *Pengolahan Air Asam Tambang Menggunakan Biofilm Bakteri Pereduksi Sulfat*. Institut Pertanian Bogor. Bogor.