

Sarunya Thanasomrit 2008: Adsorption Sulfide Ion in Wastewater by Activated Carbon. Master of Science (Environmental Science), Major Field: Environmental Science, College of Environment. Thesis Advisor: Associate Professor Nipon Tungkananuruk, Ph.D. 110 pages.

The remained sulfide ion after adsorptive extraction from carbonated and activated carbon from coconut shell can be determinate by measurement with a Silver Sulfide Ion-Selective Combination Electrode. The effects of the conditions involving pH, shaking time or digestion time, contact time, concentration of sulfide ion and amount of adsorbent are reported. Under the conditions, the adsorption process is conformed with Langmuir behaviour. The system has been applied to the determination of sulfide ion in wastewater from Phetchaburi sewage system.

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Thesis Advisor's signature

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