

## Penilaian kesehatan perairan situ di kampus Universitas Indonesia Depok, Jawa Barat dengan IBI (index of Biotic Integrity) = An assesment of freshwater lakes health in University of Indonesia campus Depok, west Java using IBI (index of biotic integrity)

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### Abstrak

Penelitian mengenai penilaian kesehatan perairan situ di Kampus Universitas Indonesia Depok dengan IBI (Index of Biotic Integrity) telah dilaksanakan di Situ Kenanga, Agathis, Mahoni, Puspa, Ulin, dan Situ Salam pada bulan Maret -- April 2016. Penelitian bertujuan untuk mengetahui apakah IBI dapat digunakan untuk menilai kesehatan perairan Situ Kampus UI dan bagaimana kondisi kesehatan perairan Situ Kampus UI. IBI diaplikasikan berdasarkan karakter komunitas ikan yang ada. Pengambilan sampel ikan dilakukan dengan metode sampling bebas menggunakan alat electrofishing gear, push net, cast net mata jaring 2,5 cm, dan lift net. Hasil penelitian menunjukkan bahwa IBI dapat digunakan untuk menilai kesehatan perairan berdasarkan komunitas ikan di Situ Kampus UI dengan diterapkannya beberapa modifikasi metrik. Kesehatan perairan di Situ Agathis, Mahoni, Puspa, dan Ulin tergolong sedang; kesehatan perairan di Situ Salam tergolong baik.

<hr>A research about an assesment of freshwater lakes health in University of Indonesia Campus Depok has been implemented on Kenanga, Agathis, Mahoni, Puspa, Ulin, and Salam Lakes from March to April 2016. The aim of the study is to know if IBI (Index of Biotic Integrity) can be applied on UI Campus Lakes for assess freshwater lakes health and how is the condition of freshwater health in UI Campus Lakes. IBI is applied based on character of existing fish community. Fish sampling was done by free sampling method using an electrofishing gear, a push net, a cast net [mesh 2.5 cm], and a lift net. The results showed that IBI can be used to assess freshwater health based on fish community in UI Campus Lakes by applying several metric modifications. Freshwater health on Agathis, Mahoni, Puspa, and Ulin Lakes classified as moderate/fair; freshwater health on Salam Lakes classified as good.