

**EVALUASI TPA WUKIRSARI BERDASARKAN PENILAIAN INDEKS
RISIKO LINGKUNGAN DI PADUKUHAN WUKIRSARI, DESA
BALEHARJO, KAPANEWON WONOSARI, KABUPATEN
GUNUNGGKIDUL, DAERAH ISTIMEWA YOGYAKARTA**

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INTISARI

TPA Wukirsari terletak di Padukuhan Wukirsari, Desa Baleharjo, Kapanewon Wonosari, Kabupaten Gunungkidul, Daerah Istimewa Yogyakarta. Sistem pengelolaan yang dilakukan adalah *controlled landfill* dengan penimbunan sampah setiap 7 hari sekali. Namun, dalam pelaksanaannya TPA hanya melakukan penimbunan setiap 30 hari sekali atau tergantung ketersediaan tanah penutup sehingga menimbulkan permasalahan lingkungan seperti pencemaran air dan udara. Penelitian ditujukan untuk mengetahui tingkat bahaya dari kegiatan operasional TPA Wukirsari guna menentukan arahan pengelolaan yang dibutuhkan berdasarkan penilaian indeks risiko lingkungan.

Penelitian ini dilaksanakan dengan metode survei dan pemetaan, wawancara, pengambilan sampel dan uji laboratorium serta metode matematis yaitu pembobotan dan penilaian indeks risiko lingkungan berdasarkan Peraturan Menteri Pekerjaan Umum Republik Indonesia Nomor 3 Tahun 2013 tentang Penyelenggaraan Prasarana dan Prasarana Persampahan dalam Penanganan Sampah Rumah Tangga dan Sampah Sejenis Sampah Rumah Tangga. Parameter yang diamati berupa kriteria tempat pembuangan akhir (20 parameter), kriteria sampah di TPA (4 parameter), dan karakteristik lindi (3 parameter).

Hasil penelitian menunjukkan bahwa TPA Wukirsari memiliki tingkat bahaya sedang dengan nilai indeks risiko lingkungan sebesar 446,56 sehingga TPA diteruskan dan direhabilitasi menjadi lahan urug terkendali secara bertahap. Terdapat 5 parameter dengan indeks sensitivitas tinggi dengan nilai 1,00 yang berarti sangat bahaya diantaranya jarak terhadap pemukiman terdekat pada arah angin dominan, jarak terhadap kota, dan kelembaban sampah di TPA. Oleh karena itu, tindakan arahan pengelolaan yang dapat dilakukan berupa rehabilitasi TPA (penataan ulang) *controlled landfill* dan perencanaan tanah penutup. Sedangkan karakteristik lindi seperti BOD dan COD yang melebihi baku mutu dilakukan arahan dengan merancang instalasi pengolahan lindi.

Kata Kunci: TPA Wukirsari, Indeks Risiko Lingkungan, Evaluasi Tingkat Bahaya.

EVALUATION OF WUKIRSARI TPA BASED ON INTEGRATED RISK BASED APPROACH IN WUKIRSARI SUB-VILLAGE, BALEHARJO VILLAGE, WONOSARI SUB-DISTRICT, GUNUNGKIDUL DISTRICT, YOGYAKARTA SPECIAL REGION

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ABSTRACT

Wukirsari TPA is located in Padukuhan Wukirsari, Baleharjo Village, Kapanewon Wonosari, Gunungkidul Regency, Special Region of Yogyakarta. The management system implemented is controlled landfill with landfill every 7 days. However, in its implementation the TPA only carries out landfill every 30 days or depending on the availability of cover soil, which causes environmental problems such as water and air pollution. The research is aimed at determining the level of danger from Wukirsari TPA operational activities in order to determine the management direction needed based on an environmental risk index assessment.

This research was carried out using survey and mapping methods, interviews, sampling and laboratory tests as well as mathematical methods, namely weighting and assessing environmental risk indices based on the Regulation of the Minister of Public Works of the Republic of Indonesia Number 3 of 2013 concerning the Implementation of Waste and Waste Infrastructure in Handling Household Waste and Garbage. A type of household waste. The parameters observed were criteria for final disposal sites (20 parameters), criteria for waste in landfills (4 parameters), and leachate characteristics (3 parameters).

The research results show that the Wukirsari TPA has a moderate level of danger with an environmental risk index value of 446.56 so that the TPA is continued and rehabilitated into a controlled landfill in stages. There are 5 parameters with a high sensitivity index with a value of 1.00, which means it is very dangerous, including the distance to the nearest settlement in the dominant wind direction, the distance to the city, and the humidity of the waste in the landfill. Therefore, the management direction action that can be taken is landfill rehabilitation (rearrangement) controlled landfill and land cover planning. Meanwhile, leachate characteristics such as BOD and COD that exceed quality standards are guided by designing leachate processing installations.

Keywords: TPA Wukirsari, Integrated Risk Based Approach, Hazard Level Evaluation