SUMMARY

PERENCANAAN IPAL DOMESTIK KOMUNAL PEMUKIMAN BANTARAN KALI SURABAYA KELURAHAN KARAH KECAMATAN JAMBANGAN

DESIGNED COMUNAL DOMESTIC WWTP AT SURABAYA RIVER BANKS SETTLEMENT KELURAHAN KARAH KECAMATAN JAMBANGAN

Created by Perdana, Diki Indra

Subject : Limbah, Pembuangan

Keyword : : "bantaran Kali Surabaya; limbah cair domestik; IPAL; ABR dan Wetland"

Description :

Limbah cair domestik dari pemukiman bantaran Kali Surabaya memberikan kontribusi pencemar cukup besar selain limbah cair dari sektor industri. Karena penanganan dan perhatiannya dirasa kurang, maka perlu dilakukan perencanaan IPAL domestik untuk pemukiman bantaran Kali Surabaya. Hal ini untuk membantu meningkatkan kualitas daya dukung Kali Surabaya sebagai sungai kelas I, yaitu air yang peruntukannya dapat digunakan untuk air baku air minum, dan atau peruntukan lain yang mempersyaratkan mutu air yang sama dengan kegunaan tersebut Daerah perencanaan yang dipilih adalah pemukiman bantaran Kali Surabaya di Kelurahan Karah Kecamatan Jambangan. Karena pemukiman dan jenis penduduknya cukup beragam, mulai dari penduduk tradisional, musiman dan urban.

Perencanaan ini menggunakan beberapa tahapan, yaitu pengenalan sistem sanitasi masyarakat, pengelompokan sistem cluster IPAL dan perencanaan IPAL cluster. Paradigma pengolahan limbah yang digunakan adalah pengolahan limbah cair dari grey water dan black water. Perencanaan IPAL ini akan berdekatan dengan masyarakat karena membutuhkan peran serta masyarakat secara terpadu dalam perencanaan, pembangunan dan pengelolaannya. Metode penggalian informasi dan data dilakukan secara langsung di lapangan agar dapat diaplikasikan secara tepat.

Teknologi IPAL yang direncanakan adalah Anaerobic Baffle Reactor (ABR) dan Wetland. Teknologi pengolahan ini akan dikombinasikan dengan sistem pengelolaan limbah secara cluster lengkap dengan sistem sewerage dan sarana sanitasi yang diperlukan.

Description Alt:

Domestic wastewater from Surabaya River banks settlement gives enourmous pollutant to the river, besides wastewater from industrial. Because of there is still less attention and handled, so itâ€™s a must to designed communal domestic wastewater treatment (WWT) at Surabaya River banks settlement. This matter to help increasing quality of Surabaya River capacity as Class I River, itsâ€™s mean water of Surabaya River can be used to raw drink water or other case which have similar water quality standard for the same needs. Designed area which been choosen is Surabaya River banks settlement at Kelurahan Karah, Kecamatan Jambangan. Because this settlement had various of society, from traditional, temporary and urban.

This designed using some steps, there are introducing community sanitation system, grouping wastewater cluster system and designing wastewater cluster system. The point of view for this wastewater treatment are wastewater treatment from grey water and black water. This WWTP design will be close with community because require community participation in their design,

construction, operational and maintenance. Data and information research method directly used in the object, it makes this treatment can be applied.

WWT technology which designed are ABR and Wetland. This treatment technology will combined with cluster WWT system, completed with sewerage system and sanitation system that necessary.

Contributor : Dewi Dwirianti, ST. MEng.

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Contact Person :

Mr. Edy Suprayitno (edy_supra@its.ac.id)

Mrs. Ansi M. Putri(ansi@its.ac.id)

Mr. Taufik Rachmanu (taujack@its.ac.id)

Mrs. Dewi Eka Agustina (dee@its.ac.id)

Thank You,

Nur Hasan

ITS Digilib Supervisor