

ABSTRAK

Manusia dan semua makhluk hidup membutuhkan air. Air merupakan material kehidupan yang terjadi di bumi. Begitu juga dengan tumbuh – tumbuhan dan binatang juga membutuhkan air jadi air merupakan salah satu sumber kehidupan. Air limbah domestik adalah limbah yang berasal dari usaha atau kegiatan pemukiman, perkantoran, rumah peribadatan, dan lain – lain. PDAM Tirtanadi Cabang Cemara yang bertujuan untuk mengetahui proses pengolahan dan unit – unit pengolahan air limbah domestik di Instalasi Pengolahan Air Limbah Cemara. Proses yang digunakan pengolahan air limbah adalah proses pengendapan, proses biologis, proses kimiawi dan proses lanjutan. Perlu diadakannya sosialisasi kepada masyarakat tentang pentingnya pengolahan air limbah domestik terhadap lingkungan dan penambahan sarana dan prasarana air limbah, sehingga akan menambah pelanggan pengolahan air limbah dengan demikian masyarakat dapat ikut serta dalam menjaga kelestarian lingkungan. Studi pendahuluan dilakukan terlebih dahulu dengan melakukan studi pustaka yang berasal dari buku, jurnal dan catatan kuliah dijadikan dasar dalam penelitian, pengumpulan data primer berupa dokumentasi lokasi penelitian, kemudian data sekunder berupa data jumlah penduduk, data fasilitas kota (fasilitas pendidikan, peribadatan, kesehatan), data pelanggan dan data kapasitas produksi air bersih PDAM Tirtanadi. Berdasarkan hasil analisa unit- unit perlu di adakan perbaikan di beberapa alat demi mendukungnya pengolahan yang baik.

Kata kunci : Air limbah domestik, unit, proses pengolahan

ABSTRACT

Humans and all living things need water. Water is the material of life that occurs on earth. Likewise, plants and animals also need water, so water is a source of life. Domestic wastewater is waste originating from businesses or activities of settlements, offices, houses of worship, and others. PDAM Tirtanadi Cemara Branch which aims to determine the treatment process and domestic wastewater treatment units at the Cemara Wastewater Treatment Plant. The process used in wastewater treatment is a deposition process, a biological process, a chemical process and a follow-up process. It is necessary to conduct socialization to the public about the importance of domestic wastewater treatment to the environment and the addition of waste water facilities and infrastructure, so that it will increase the number of customers for wastewater treatment so that the community can participate in preserving the environment. Preliminary studies are carried out first by conducting library research from books, journals and lecture notes as the basis for research, collecting primary data in the form of documentation of research locations, then secondary data in the form of population data, data on city facilities (educational facilities, worship, health). , customer data and water production capacity data for PDAM Tirtanadi. Based on the results of the analysis of the units, it is necessary to make improvements in several tools to support good processing.

Key words: Domestic wastewater, units, treatment process