

山西晋中冷饮公司污水处理工艺设计

摘 要

随着时代的进步和经济的发展，冷饮行业成为众多兴起的行业之一，同时冷饮废水的环境污染问题也由之出现。冷饮污水具有有机污染物质浓度较高且生化性能强等特点。

本文针对山西晋中冷饮公司污水进行处理设计，设计的规模是 2000m³/d。根据冷饮污水的特点及进水水质水量特征，结合国内外常用方法经比选，本次设计采用的主体工艺为厌氧工艺和 AO 脱氮工艺，经处理后污水可达到《城镇污水处理污染物排放标准》（GB19818—2002）中的一级 A 标准，能够实现达标排放。

该文包含本次工程设计的概况；污水处理方法的选取比对；建、构筑物的选取与设计；平面布置、高程、管路布置的原则；工程项目所需费用的计算等。本设计结构简单，处理效果较好，可以长期使用。

关键词：冷饮污水；厌氧工艺；AO 脱氮工艺；工程设计

Abstract

With the development of China, the cold drink industry became one of the most rapid developing industries. At the same time, the cold drink wastewater has become a new problem of the environment. The high organic concentrations and biochemistry are the main characteristics of the drink sewage. In this article, sewage from Jinzhong Cold Drink Company of Shanxi was designed and the scale was 2000m³/d. The main sewage treatment process included anaerobic process and AO denitrification process, which were chosen according to the sewage characteristics. After the treatment, the discharged sewage can meet the Class A standard of Discharge Standard of Pollutants for Urban Sewage Treatment (GB19818—2002) .

The article includes the general overview of the design and description methods of the sewage treatment methods ; selection of the structures; cost of the project, and so on. The design has advantages including simple structure and good treatment effect. In addition, it also can be used for a long time.

Key words : cold drink wastewater ; anaerobic process ; AO denitrification process ; engineering design

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