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**摘要:** 本文采用美国珀金 埃尔默 (PERKIN ELMER) 公司 Zeeman/5100型原子吸收分光光度计, 应用石墨炉等检测手段对水库水、进厂原水、各工艺取水点及出厂水进行分析、研究, 从微量金属的来源及对人体健康的影响、各元素的测定条件到建立实验方法分别加以阐述; 对部分数据进行汇总; 提出工作设想, 认为对水质进行严格的控制, 首先要提高检测能力和手段。同时汲取国外的先进理念, 开展有前瞻性的研究, 未雨绸缪。

**关键词:** 原子吸收, 石墨炉, 重金属, 微量元素

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## The research and evaluation of heavy metal concentration in water and processing water

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**Abstract:** With the development of economy, industrial pollution has become one of serious problem. Because of environmental influence, the pollution of surface water has been more and more serious, and the raw water has been polluted by heavy metal in different degree. This has threatened people's life and health. So enhancing water monitor and reducing heavy metal content has become the first important problem. This article researched water from reservoir, the raw water, the water of getting point, and the treated water by the Zeeman /5100 Atomic Absorption Spectrophotometer of PERKIN ELMER and with the methods such as graphite stove. The article separately expatiated on trace metal origin and it's affection on people's health. It also expatiated on the monitoring condition of each dement and the establishing of experiment method; It collected data, promoted the work constitution. We consider that the first task is to improve the ability of monitoring to control water quality strictly, draw advanced international idea, and study new possible issues, and then prepare for new problem.

**Key words:** Atomic absorption, Graphite furnace, Heavy metal, Microelement

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