

## 한강수계 지천수질 오염도 조사연구

수질보전과

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### Survey on the Water Contamination of Tributary Water in Seoul Area

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#### =Abstract=

This survey was carried out to investigate water contamination at 17 points of tributary water into Han river from January to December 1989.

The results were as follows:

1. In analysis of general items, the annual average of pH was 6.6~7.4 and that of DO was 2.8~6.6 ppm in Jungrang stream, 3.5~7.1 ppm in Tanchôn stream and 0.6~8.1 ppm in Anyang stream. The annual average of BOD was 9.3~90.5 ppm in Jangrang stream, 8.3~165.4 ppm in Anyang and 13.6~77.3 ppm in Tanchôn stream.
2. In analysis of nutrients salts, the annual average range of  $\text{NH}_3\text{-N}$  was 3.080~22.835 ppm and that of  $\text{NO}_2\text{-N}$  was 0.119~4.179 ppm. The annual average range of  $\text{NO}_3\text{-N}$  was 0.027~0.376 ppm and that of  $\text{PO}_4\text{-P}$  was 0.669~26.953 ppm.
3. In analysis of heavy metals, Total-Hg, Alkyl-Hg,  $\text{Cr}^{+6}$  were not detected and the other heavy metals were detected below the standard of environment.
4. The annual average of coliform group was  $7.2 \times 10^4/100 \text{ ml} \sim 5.7 \times 10^7/100 \text{ ml}$ .

#### 서론

현재 한강은 34개 지천이 한강분류로 흘러 들어가고 있으며 이들 지천 주위에 많은 오염원이 있어 이들이 한강을 오염시키는 주원인이므로 한강의 수질개선을 위해서는 지천관리가 무엇보다도 중요하다.

이를 위하여 정부에서는 분류하수관의 보급율을 해마다 증가시켜 가고 있으며 그에 따른 하수처리장 건설을 추진하고 있다. 1989년 서울의 하수처리 능력은 중랑하수처리장이 106만  $\text{m}^3/\text{日}$ , 탄천하수처리장이 50만  $\text{m}^3/\text{日}$ , 안양하수처리장이 100만  $\text{m}^3/\text{日}$ , 난지하수처리장이 50만  $\text{m}^3/\text{日}$ 로 총하수처리 용량은 306만  $\text{m}^3/\text{日}$ 를 갖고 있으나 해마다 하수발생량이 15~24만  $\text{m}^3$ 씩 증가하는

