

A research about an effective improvement policy of combined sewer system that applied new technologies

Year of Research

2007

(The purpose of the study)

This work paid off the conditions that the case that we introduced a new technology developed by SPIRIT21 into became more economical, In comparison with a conventional improvement method by the or separation of sewer or establishment of pool facilities and penetration facilities such as rainwater stagnant water Pond and, we examined an as follows matter to do examination of a reasonable plan by Ministry of Land, Infrastructure and Transport with thinkableness and development of an effective sewer improvement plan of combined sewer junction by a public body .

1. When we introduced the technology concerned based on a performance evaluation result of a new technology about improvement of combined sewer system chosen in SPIRIT21, we examine a condition to devise an effective improvement plan of combined sewer system.
2. We arrange a matter of the water body that is easy to be affected by discharge of non-processing sewage and examine sterilization technology and an ideal method of software measures that accepted safety pursued in area.

(Results of the study)

We concluded "guidance of effective combined sewer emergency improvement plan development." based on the examination result mentioned above. When we made an emergency improvement plan, we arranged to pay attention to an as follows matter.

- ①When we review an emergency improvement plan, we plan low cost of measures facilities by using a new technology.
- ②We arrange a way of thinking of the rain to use for an effect of measures by existing facilities and setting of a target and devise of efficiency and an effective plan by setting an appropriate target.
- ③When we choose measures technology, we consider each merit demerit, a precondition and a constraint condition enough. Because, we can classify each technical functions in 3 functions "saving" it to "send" that cannot "enter".
- ④At the water body where big influence is expected to discharge by discharge of non-processing.

In addition, guidance consists of it by an as follows chapter.

Chapter 1 The general remarks

We arrange down a definition of a term used by a purpose of guidance, coverage and guidance.

Chapter 2 Development of a new combined sewer system emergency improvement plan

We arrange down a notice matter that we deal with plan development, a flow of plan development, evaluation of an enterprise to modify improvement of the combined sewer system that we carried out till now, rearranging of conditions of supply of water use in receiving water body and setting of importance influence receiving water body, setting of the present improvement target, rainwater about making of a plan, making of a combined sewer system emergency improvement plan in examination to relate to an application of measures technique "saving" it to "send" that cannot "enter", confirmation of effectiveness of measures, the year.

Chapter 3 Introduction example

We arrange an introduction example of a new technology developed in SPIRIT21, "an advancement of simple processing, Wet Weather Wastewater treatment method, tiltboard sedimentation basin and an introduction example of penetration facilities, measures example in importance influence receiving water body, software measures example, a public information example in foreign countries."

Chapter 4 Reference materials

In addition, we arrange reference materials about emergency improvement plan development, "Progress about improvement of the combined sewer system, case study, comparison example of an anti-improvement measure, summary list of the SPIRIT21 new technology. We write down content about the enforcement such as government ordinances revising a part of a sewer method enforcement order. "

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Key words

Combined sewer system emergency improvement plan, The present improvement target,
Important influence receiving water body, Effectiveness of measures