(Purpose)
Egawa and Shibukawa stormwater storage pipes in Kawasaki City have been operated since 2001 and 2004, respectively. Both stormwater storage pipes were installed for following provisions;

- Capacity expansion of stormwater drainage facilities (quantity control)
- Combined sewer overflow control (quality control)
- Augmentation of sewerage system storage capacity in lowlands (1/30 to 1/40 year measure)

The problems concerned operation and maintenance has occurred to Egawa storage pipe because of sands and screenings inflowing. All of storage stormwater are generally returned from both storage pipes to Kase Wastewater Treatment Plant after wet weather. And the returned water is discharged to public water bodies after secondary treatment with high treatment cost. Therefore, reduction of this cost is quite important problem to be solved.

Based on above situations, water quality test for storage water and functional assessment for storage facility should be conducted in this study for following purposes;

- To decrease storage water treatment cost
- To save designated amount of storage water
- To decrease sediments
- To establish appropriate method of operation and maintenance

Finally, this study aim should be to draw up a facility improvement plan of stormwater storage pipe based on environmental cost reduction effect and economical effect.

(Contents)
The study for following items should be conducted for 2 years. Study flow chart is shown as Fig-1.

- Water quality test for storage water
- Analysis for odor and bottom sediment constituents in storage pipe
- Investigation for storage water treatment
- Functional assessment for stormwater storage pipe facility and investigation for improvement plan
(Study Schedule)

- Sampling and analysis for storage water, bottom sediment and odor between rainy and typhoon seasons
- Investigation and assessment for storage water treatment plan
- Drawing up of facility improvement plan for intake storage pipes and wash facility

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key words | Stormwater, Storage Pipe, Combined Sewer Overflow (CSO) Control, Flood Control