

**EVALUASI PENCEMARAN BOD-COD DAN PARAMETER FISIK DI KOLAM  
PELABUHAN TANJUNG EMAS SEMARANG  
DENGAN METODE INDEKS PENCEMARAN**

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**Abstract**

Coastal area are very productive region because many substance that came from surroundings can being accumulated on that area effect from human activity in this case from factory of electricity power station and domestic waste from around of the harbour that streaming down from Banjir Kanal Timur rivers. Impure BOD-COD caused by contaminant substance from Banjir Kanal Timur rivers. To earn to see territorial water quality in the harbour, index of territorial water quality are method to know amount of water contamination that effect from waste which step into water. Nemerrow Sumitomo Index applicable to assess quality of territorial water.

This research aim to evaluate territorial water condition in pool of Tanjung Emas Harbour Semarang using pollution index method with parameter pH, turbidity, DO, temperature, salinity, BOD, COD and to know about relation between BOD with physical parameter.

Research location at pool of Tanjung Emas Harbour Semarang limited by break water with length 1.097m, width 500m that what is long the than coast toward sea of both sides of port pool and long of horizontal with coastline.

Based on value of water quality Nemerrow-Sumitomo Index got by index of territorial water quality at port pool for maritime allotment tour equal to 3.42, for allotment of territorial water port equal to 3.43 and for allotment of sea ecosystem equal to 3.35. From the third allotment pool of Tanjung Emas Harbour Semarang enter in light impure category.

Keyword : BOD-COD, physical parameters, index of water quality