ABSTRACTION

Generally, boundary river land (tanah sempadan sungai) in Indonesia are strategical land because has access to other location using water transportation and the ecological around the river. So boundary river land need to be managed to support management of making good river function. Government as manager, advisor and developer has competent and ability to regulate boundary river land integrally.

Boundary river land around the city need more attention because there are many group who want to fight for getting that land with different motivation. That groups are Government, Society and Private Groups. Government want to rule Boundary River Land in order to get better management. Society want to own the land for himself and his family and the other side the Private Group or Private Company or Developer want to possess the land for their business interest.

To know about the utilization of boundary river land clearly need to be evaluated using steps, that are : managing data, identifying and classifying and certainly of law. Data source that used are Surabaya Land Use Map, Ikonos Image Satellite and Regulation about Boundary River Land.

Processing data method that used to improve satellite image and for classification are Colour Composite Method and Supervised Classification Method. Whereas Land Use Map need to be digitized for overlapping with Ikonos Image Satellite.

Certainty law of boundary river land will be achieved if that land has been registered in Indonesian National Land Board (Badan Pertanahan Nasional) with consideration of land use, historical ownership of the land, physical data and juridical data so that certificate of land can be issued as an evidence of strong ownership of land.

In this examination, after analized are found that Wonokromo Boundary River Land in Kedung Baruk dan Penjaringan Sari district are used for Green Belt (Jalur Hijau) that free from permanent building and hard trees under Jasa Tirta State Corporation (Perusahaan Umum Jasa Tirta=PJT) authority. Right now, Management Boundary River can not achieved an optimal river function so it need to be managed by PJT and Surabaya City Government for protecting river function. The use of Satellite Ikonos Image to evaluate Wonokromo Boundary River Land have very good accuracy that is reach spatial resolution 1 (one) metre. And more better if supported by more accurate data source such as EROS Image Satellite.

Key word : Wonokromo’s Boundary River Land, Ikonos Image Satellite, Land Use Map