

Abstract

Research Title : Surface water quality management for agriculture and domestic consumption in Bang Nang Lee area, Amphawa, Samut Songkram province

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Surface water quality management for agriculture and domestic consumption in the district. The purpose of the survey. Monitor surface water quality. Used in agriculture (Lychee, grapefruit and coconut) and for domestic property in Bang Nang Lee area, Amphawa, Samut Songkram province, Thailand. Water quality parameters in this study including physical conditions, temperature, turbidity, conductivity. And 15 chemical parameters were including the salinity of the water, pH, dissolved oxygen (DO), BOD, nitrogen as nitrate, nitrite. Suspended solids (SS), phosphorus. Total dissolved solids (TDS), iron, copper, zinc, manganese, lead and cadmium. Water quality measured by standard methods. for 3 season during the months of January to December 2011.

Water quality measurements in surface water quality standards for three types of PCD. Ministry of Natural Resources. The water is suitable for consumption by the usual sterile and generally improving water quality through the process before. And is suitable for farming and agriculture

The statistical analysis showed that water quality was the property of the water quality in orchards (Lychee, grapefruit and coconut) did not differ significantly at 0.05 level, except for dissolved oxygen.

Keyword : water quality, orchards, lychee and grapefruit coconut