



GROUNDWATER QUALITY ANALYSIS REPORT

Kampong Cham - Srei Santhor - Ruessei Srok (97F)



Ruessei Srok is located in the district of Srei Santhor. The population of this commune is approximately 5355 (2004). Groundwater sample collection occurred in April 2008 and consisted of the sampling of 6 tube wells throughout the commune. The attached figure presents the location of Ruessei Srok within Kampong Cham as well as groundwater sample locations and exceedances of health-impacting contaminants (when applicable).

Groundwater Quality Rating

The groundwater quality rating for Ruessei Srok is 97F. Therefore, the general safety of deep aquifer groundwater is very good and the aesthetic quality of the water is poor, according to the contaminants measured and samples collected. The following two sections describe all major health and aesthetic contaminants that exceeded drinking water standards in at least one sample within the commune.

Contaminants of Potential Concern – Health

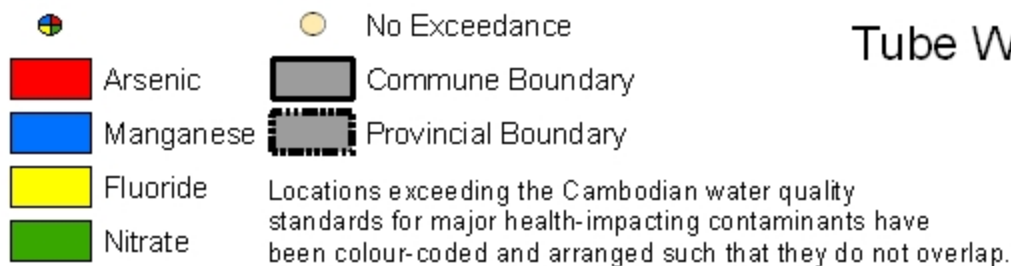
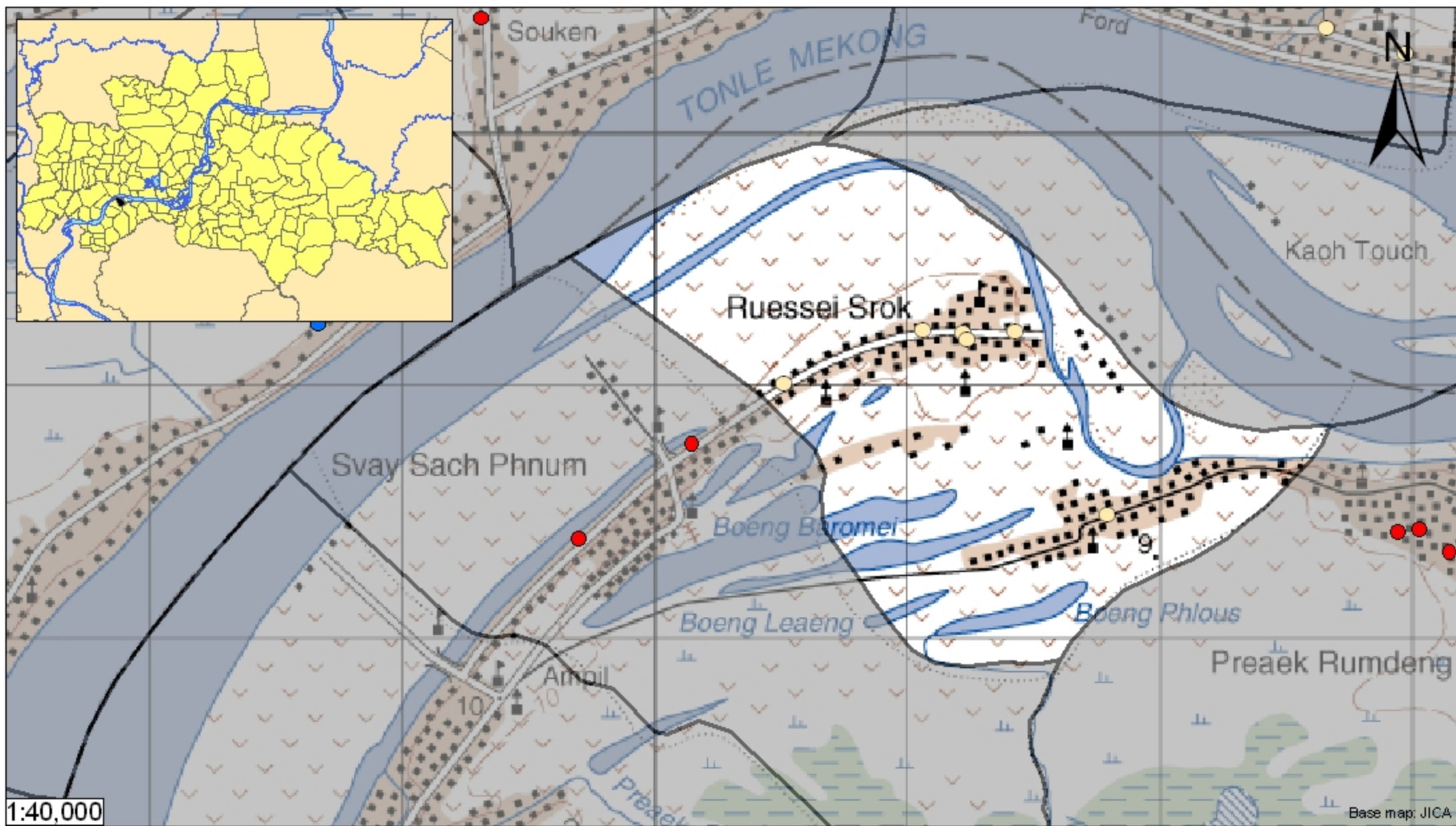
No health-impacting contaminants of concern were observed within this commune.

Contaminants of Potential Concern – Aesthetic

Iron - Elevated concentrations of Iron were observed within the commune. The estimated probability of encountering potentially unacceptable concentrations of Iron (>1 mg/L) in tube wells is 49%, based on the observed data. At elevated concentrations, Iron causes water to be cloudy and unpleasant to drink. An odor may also be encountered at high concentrations. Iron can also stain laundry, food (can cause discoloration of cooked rice), and leave deposits. Aeration allows oxygen to enter the water and react with Iron to form a compound which is insoluble in water. The newly formed solids will slowly settle to the bottom or can be removed more rapidly by filtration. Performing these procedures may reduce the concentration of Iron in water but follow-up testing is recommended to ensure water quality standards are met.

Turbidity - Elevated levels of Turbidity were observed within the commune. The estimated probability of encountering potentially unacceptable levels of Turbidity (>20 ntu) in tube wells is 54%, based on the observed data. Turbid or cloudy water appears

unpleasant to the eye and is more likely have an unpleasant taste or odor. Turbidity can be reduced by filtration.



Tube Well Sample Locations and Health-Based Exceedances

Ruessei Srok - Srei Santhor - Kampong Cham - Cambodia

Resource Development International - Cambodia

www.rdic.org

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