

# 1-1. Shire River Catchment (Upper Shire)



Mozambique

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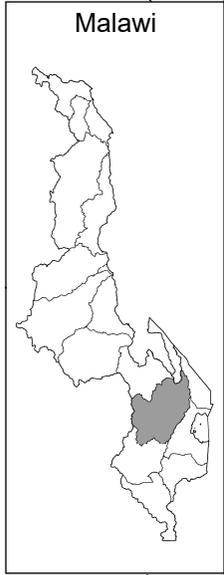
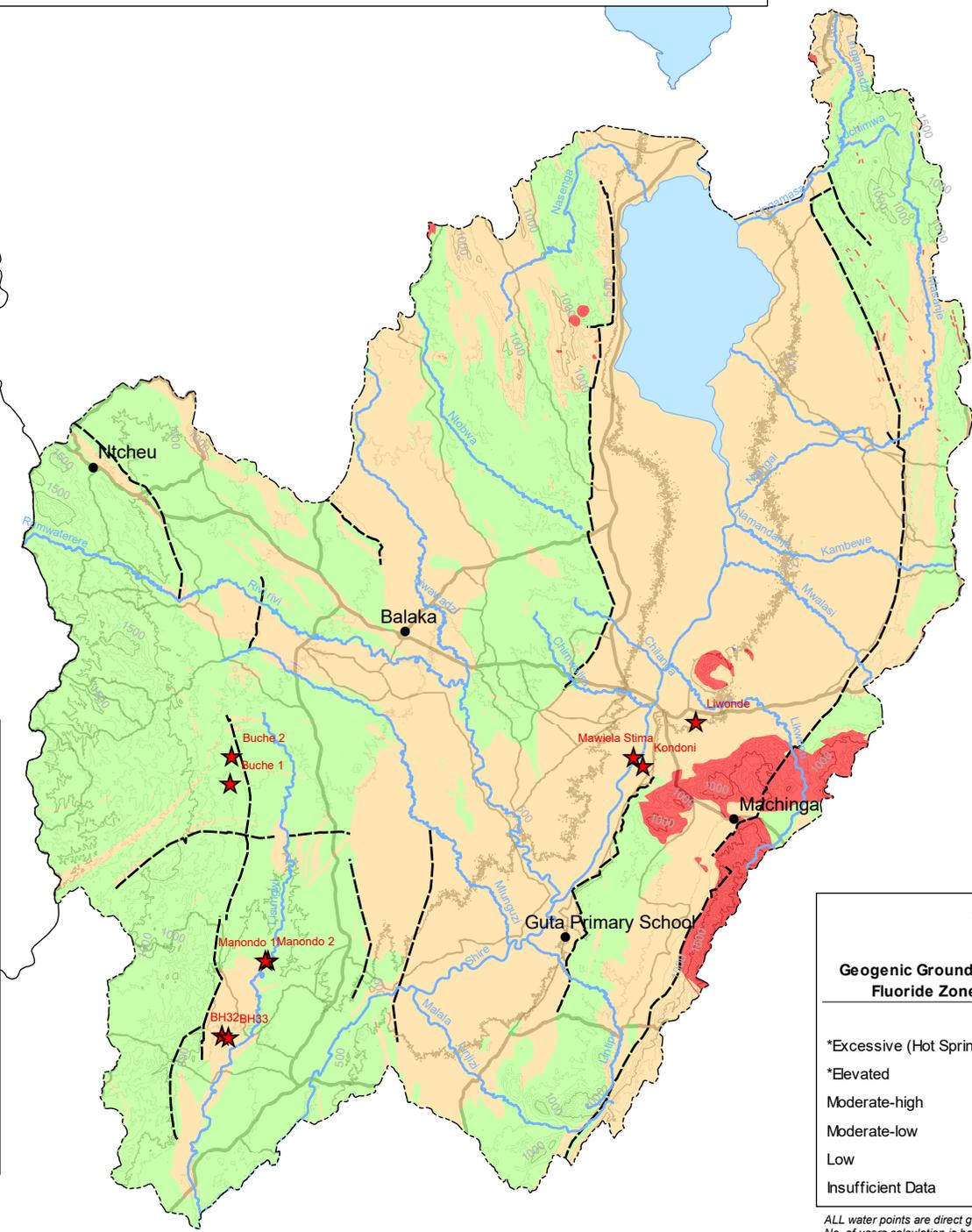
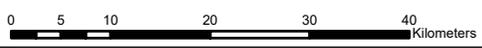
## Key

- Town/City
- Malawi Border
- Catchment Boundary
- Waterbody
- River
- - - Fault

## Geogenic Groundwater Fluoride Zones

- ★ EXCESSIVE GEOGENIC FLUORIDE - Hot Spring (100% likelihood of fluoride exceeding \*1.5 mg/l & 75% likelihood of fluoride exceeding \*\*4 mg/l)
- ELEVATED GEOGENIC FLUORIDE (>60% likelihood of fluoride exceeding \*1.5 mg/l & 0% likelihood of fluoride exceeding \*\*4 mg/l)
- MODERATE-LOW GEOGENIC FLUORIDE (10- 17% likelihood of fluoride exceeding \*1.5 mg/l & 0% likelihood of fluoride exceeding \*\*4 mg/l)
- LOW GEOGENIC FLUORIDE (<10% likelihood of fluoride exceeding \*1.5 mg/l & 0% likelihood of fluoride exceeding \*\*4 mg/l)
- Insufficient Mineralogical or Water Quality Data to Determine Geogenic Fluoride Risk

\*WHO standard limit for fluoride in drinking water  
 \*\*Malawian proposed interim standard for fluoride in drinking water



Geogenic Groundwater Fluoride Zones	No. of Water Points		No. of Users
	n	%	
*Excessive (Hot Springs)	19	0.17	4,370
*Elevated	67	0.5	18,243
Moderate-high	0	0	0
Moderate-low	8,272	67.5	2,106,966
Low	3,817	31.2	1,082,631
Insufficient Data	72	0.6	22,276

ALL water points are direct groundwater sources and are either functional or partly functional. No. of users calculation is based on the number of users per each individual water point. No. of users for hot springs based on average number of users per water point for district. \* Requires priority review and replacement water supply