





**INSET MAPS**






**HYDROGEOLOGICAL MAP OF TARGET AREA-I WITHIN BEREHALE WOREDA**

**Legend**


**AQUIFER CLASSIFICATION**

-  Aquifer class-I: Highly productive fissured aquifers ( $T=10-100m^2/d$ ,  $q=1-10 l/s/m$ ,  $Q=5-25 l/s$  for wells or locally extremely productive aquifers consisting of sedimentary rocks)
-  Aquifer class-II: Highly productive porous shallow aquifers ( $T=10-100m^2/d$ ,  $q=1-10 l/s/m$ ,  $Q=5-25 l/s$  for wells and/or springs) or locally extremely productive aquifers)
-  Aquifer class-III: Moderately productive fissured /karst aquifers ( $T=1-10m^2/d$ ,  $q=0.01-1 l/s/m$ ,  $Q=0.5-5 l/s$  for wells and locally highly productive aquifers in fracture zones and karsts)
-  Aquifer class-IV: Low productive fissured aquifers ( $T=0.1-1m^2/d$ ,  $q=0.001-0.01 l/s/m$ ,  $Q=0.05-0.5 l/s$  for wells and/or springs in which flow is mainly developed in irregular system of fissures & weathered mantle of acrySTALLINE rock)










**LITHOSTRATIGRAPHIC UNITS**

-  Alluvium
-  Didikma Formation
-  Denakil Formation (Red Series)
-  Antalo Formation
-  Tsaliyet Group

**GEOLOGICAL STRUCTURES**

-  Normal fault (inferred)

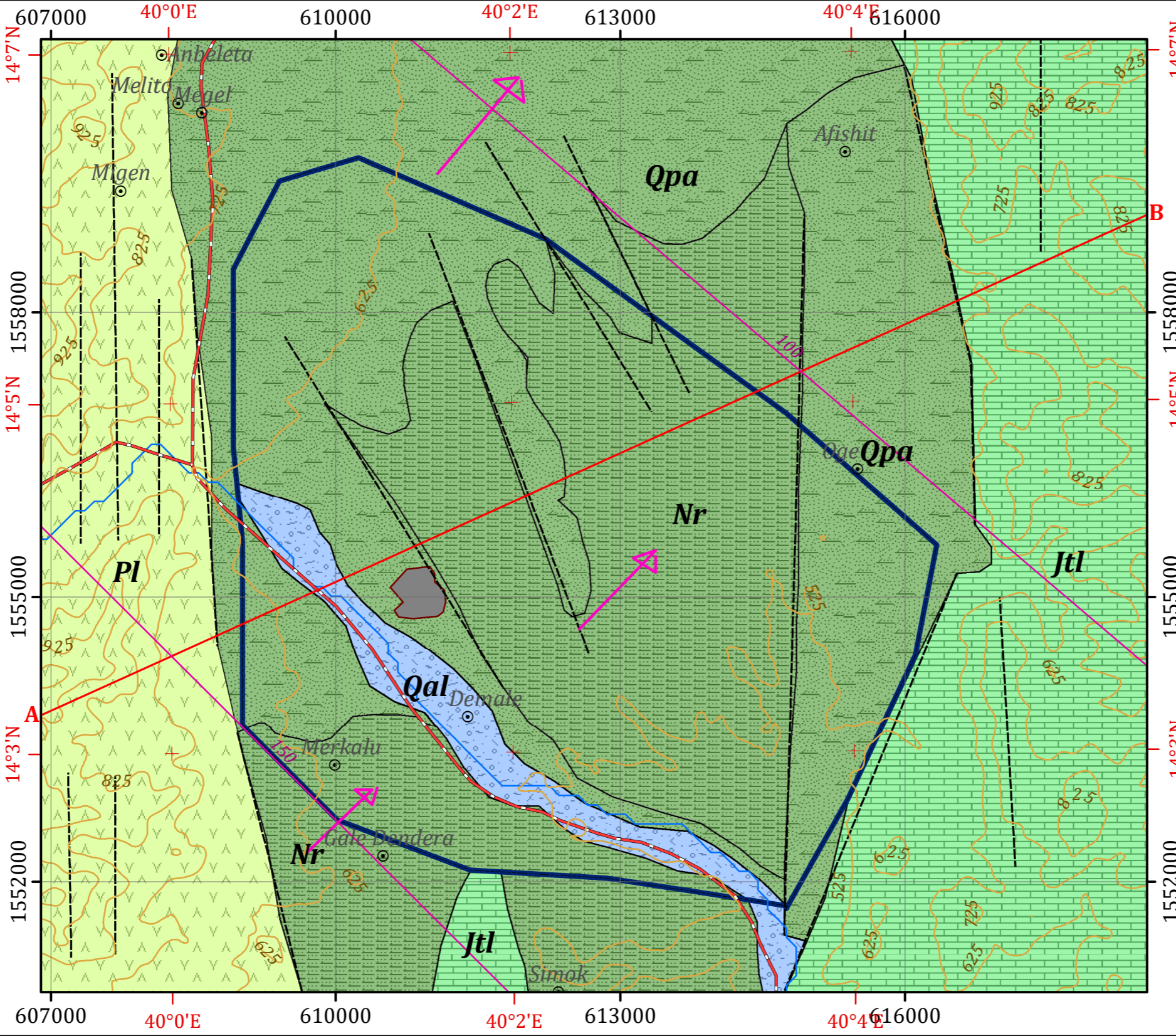
**OTHER SYMBOLS**

-  Locality
-  Groundwater Level (m) (inferred)
-  Flow Direction (inferred)
-  Contour Line (25 m Interval)
-  Drainage
-  Cross Section Line
-  Main Road
-  Target Area-I
-  Built-up Area

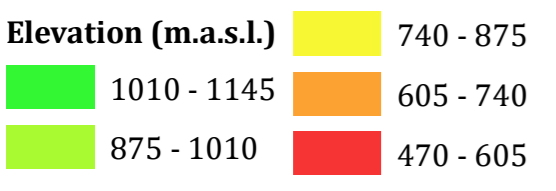
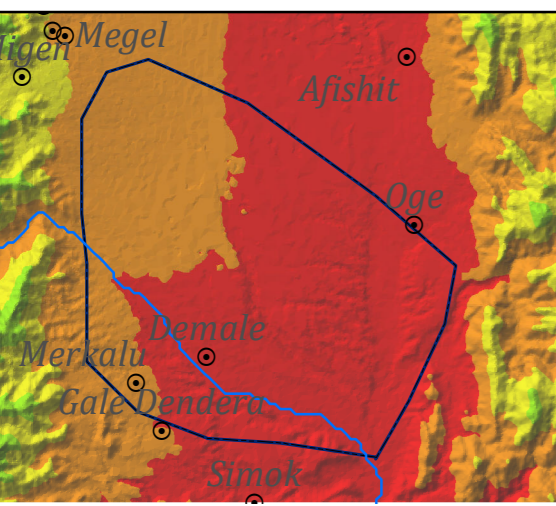
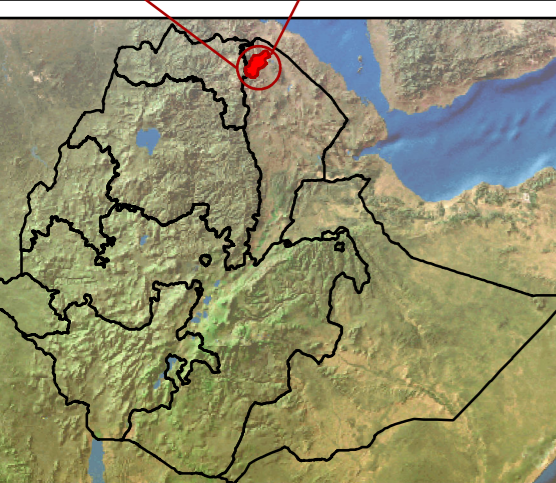
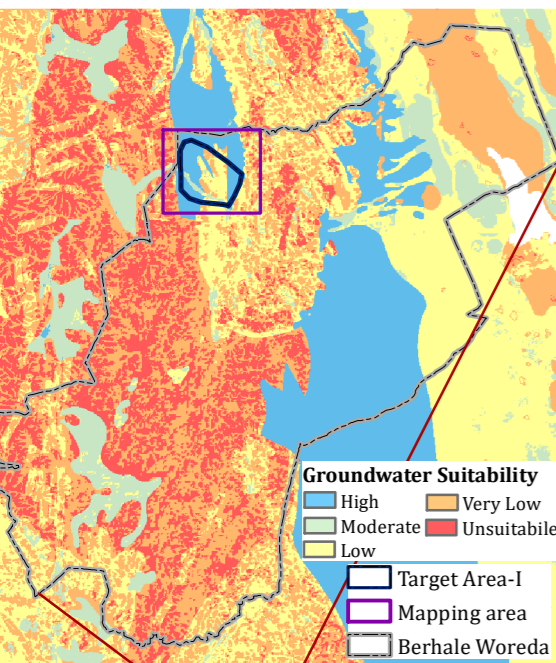
**HYDROGEOLOGICAL MAPPING FOR CLIMATE RESILIENT WASH IN ETHIOPIA - LOT-1**



Hydrogeological map production : Dr. Dessie N. & Shiferaw L.  
 Geological map production : Dr. Tarekegn T. & Dr. Yohannes D.  
 Cartography:- Assaminew G. February, 2022



Horizontal Datum: WGS 1984  
 Vertical Datum: Mean sea level  
 Projection: Universal Transverse Mercator, Zone 37N  
 Scale: 1:50,000



**Disclaimer:**  
 Administrative boundaries: CSA 2007  
 Built-up areas: Sentinel-2, Openstreetmap 2021

