How to Take Geo-Referenced Field Photos for Monitoring Water Quality and Harmful Algal Blooms”

Bridging the Gap
Connecting Citizen Science ↔ Earth Observation

www.eomf.ou.edu/photos
How to take field photos as ground truth data?

Taking one picture looking the at the center of the site/area of interest will be sufficient. However having few additional photos around the core site as shown below will give an idea about the intensity, manganite and spatial spread.

Main Photo with an additional vertical picture.

Looking North

Looking East

Looking South

Looking West

North

Main Photo

East

South

Vertical (Looking Down)

West
Some example photos for Water Quality

Industrial pollution (pc: thewaterq.com)

Eutrophication

Monitoring of water clarity (pc: nps.org)

Sedimentation
Some example photos for Harmful Algal Blooms

Algal blooms (pc: water.me.vccs.edu)

Swamp forest with algae

Harmful algal blooms (pc: Graham, USGS)

Highly toxic algal blooms (pc: thestickytongue.org)