

0.2.2.3 Water and sediments

Baseline program

The sampling for surface water and sediments took place in April 2014 for the port of Kamsar and in June 2014 for the Sangarédi area.

At Kamsar samples were taken from seven stations in the Rio Nuñez Estuary and from three stations on the Dougoufissa River.

In the mining area, sampling targeted areas along the major watercourses upstream and downstream from current mining operations as well as some areas where mining was planned in the future (eleven stations in all). Two traditional wells (Horé Lafou et Hamdallaye) were sampled by the CBG in spring 2014.

All of the samples taken (Kamsar and Sangarédi) were sent to Maxxam Analytics in Mississauga, Ontario, Canada, for laboratory analysis, including metals, physical parameters and general chemistry. In addition, *in situ* measurements of pH, temperature, dissolved oxygen, conductivity, and ammonium/ammonia (freshwater only) were taken at all surface water stations during each sampling campaign.

During the course of the freshwater ecology studies during 2013 (Chapter 3), water quality measurements were also taken (e.g., pH, conductivity) in the Sangarédi area.