

Ammonia Monitoring Network (AMoN) Blank Study

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Starting in October 2007, the National Atmospheric Deposition Program (NADP) has operated the Ammonia Monitoring Network (AMoN) Study using RadielloTM type passive diffusion ammonia gas samplers.

The purpose of present study is to evaluate the ammonia contamination which can occur in all stages of AMoN sampler processing: preparation, storing and transportation of RadielloTM samplers; extraction of RadielloTM samplers and final analysis of extracts. A number of blank studies were carried out: special laboratory and freezer air studies, new core blank studies, as well as blue RadielloTM bodies cleaning and storing studies. The results of above-mentioned studies will minimize the influence of potential accompanying contamination factors on the accuracy of ambient ammonia concentrations. This is important in terms of both the AMoN travel blanks, and the deployed AMoN samplers.