

Description of Wild Rice Field Survey data

The field survey was conducted in two phases: the 2011 preliminary, or pilot, survey was followed by a two-year survey in 2012 and 2013. The major differences between the two phases are 1) different labs analyzed the surface water and porewater samples, resulting in somewhat different analytes (otherwise, field work direction and sediment analyses were unchanged) and 2) in 2011 sediment and porewater samples were only collected if wild rice was identified at the site. In 2012 and 2013, if field workers could not find wild rice, samples were taken from a site that was similar to wild rice habitat, as identified by rooted aquatic plants that commonly co-occur with wild rice, such as lily pads.

The field sites can be divided into eight different Classes (column B in the Excel spread sheet of data).

Class	Description
1 Pilot Survey	39 different sites were surveyed beginning 8/19/2011 for surface water, sediment, and sulfide in porewater. Sites sampled 9/12 and after collected additional porewater samples for the analysis of metals, anions, and cations.
2 Pilot Duplicates	5 sites were sampled more extensively on the day of the survey; sediment variability was assessed by sampling 3 sites at an additional 3 locations each, and 2 sites at one additional location each.
3 Pilot- incomplete samples	14 sites visited in 2011 have no porewater data because the field crews could not find wild rice at 13 of them, and had logistical problems at the 14 th .
4 Survey	119 different sites were surveyed over the two field seasons 2012-13. Site visits were generally in late July, August, or September, with the exception that 7 commercial paddies were sampled between late June and the middle of July, which allowed for the collection of surface water samples before the paddies were drained and dried, which allows combines to harvest the crop at the end of the growing season.
5 Survey Duplicates	9 of the 119 sites were sampled in duplicate on the day of the survey to assess the variability of sediment, porewater, and surface water.
6 Survey 2 nd Year	24 of the sites surveyed in 2012 were sampled again in 2013 to assess year-to-year variability. The field crew made an effort to return to the same location, as identified through GPS coordinates.
7 Survey Seasonal samples	In 2013 42 additional visits were made to 17 of the survey sites to assess what environmental change can occur between monthly visits. An effort was made to visit each site a total of 4 times during the growing season, from June through September, but the actual number of visits ranged from 2 (two paddies and one lake) to 5 (Second Creek and Sandy Lake, which are of particular interest due to elevated surface water sulfate and the presence of wild rice).
8 Survey- incomplete samples	9 of 203 sites visited over 2012-13 have no porewater data because the field crew could not obtain a viable core.