

# Instructions for Completing the Ammonia Distillation Form

For each new or re-issued NPDES permit, a laboratory must distill samples for ammonia analysis unless it demonstrates that the distillation step is not necessary. Background information on ammonia distillation studies can be found at (*insert link*). Comparison study data must be submitted to the Environmental Laboratory Certification Program for evaluation and approval prior to discontinuing distillation. The Ammonia Distillation Form can be found at (*insert link*)

Item #	Explanation
1	The name of the certified laboratory applying for certification. Questions pertaining to information submitted on this form will be referred initially to the laboratory listed here.
2	The MDH issued certified laboratory identification number (i.e., ###-###-###) of the laboratory applying for certification.
3	List the reference method used. All comparability data shall be generated using the same analytical reference method for which the laboratory has requested certification (i.e., StandardMethods 4500-NH <sub>3</sub> D.)
4	The name listed on the permit for which the National Pollutant Discharge Elimination System (NPDES) distillation study is being analyzed.
5	The NPDES permit number for which the distillation study is being analyzed.
6	List the NPDES permit number for which the distillation study is being analyzed. Permit holders must repeat the distillation comparison study whenever there is a significant change in the discharge effluent or whenever a new NPDES permit is issued.
7	List the permit-required effluent limit stated on the NPDES permit including units.
8	The MDH laboratory identification number for the laboratory performing the sample preparation (i.e. distillation).
9	The MDH laboratory identification number of the laboratory analyzing the distilled sample.
10	The MDH laboratory identification number of the laboratory analyzing the undistilled sample.
11	Identification of the week the sample was collected. The study must be comprised of at least one sample collected in duplicate for at least four weeks
12	The sample identification number and/or name used to uniquely identify the sample from collection through disposal.
13	The date the sample was collected (i.e., mm/dd/yyyy).
14	The date the sample was distilled. Applicable only to the samples subjected to the distillation process.
15	The date the distilled sample was analyzed.
16	The date the undistilled sample was analyzed.
17	The distilled sample results in milligrams per liter (mg/L) for each week.
18	The undistilled sample results in milligrams per liter (mg/L) for each week.
19	The difference between the distilled sample results minus the undistilled sample results. Calculated by the spreadsheet.
20	The relative percent difference between the distilled sample results and the undistilled sample results. Calculated by the spreadsheet.
21	This space is reserved for the Paired Two Sample for Means t-test performed by the Minnesota Department of Health Laboratory Certification Program. (Note: Available only with the Data Analysis ToolPak).
22	The data analysis criteria used to evaluate paired t-test statistics.
23	This space is reserved by the Laboratory Certification Program to signify the status of the distillation study.

MN Rules 4740.2060, Subp. 2A

40 CFR Part 136.3 Table IB, Footnote #6

For use with Ammonia Distillation Data Comparison Form

Created by MDH: Revised 12 Dec 2007