

# Pre-approved Commercial Laboratories: Fixed Base and Mobile

## Guidance Document 23

The laboratories listed below have submitted information requested on Minnesota Department of Agriculture (MDA) guidance document [GD24 Fixed Base Laboratory Quality Assurance/Quality Control Plans](#). The information has been reviewed and these labs can be used by contractors to perform analysis without submitting additional laboratory information. Pre-approved commercial laboratories have Quality Assurance/Quality Control Plans and methods on file with the MDA.

The pre-approved laboratories must use the methods that are approved and on file with the MDA. We have noted on the listing if a laboratory's reporting limit does not meet the program reporting limits (RL) required at most MDA agricultural chemical sites. This list will be updated periodically.

If a contractor is considering using a laboratory not on the pre-approved list, the laboratory should submit the information required on MDA guidance document [GD24 Fixed Base Laboratory Quality Assurance/Quality Control Plans](#) at least two (2) months prior to analysis to allow MDA staff to review and approve the method.

The current MDA Lists 1 and 2 Pesticides and Nutrients are listed below. It is the responsibility of the contractor to ensure that the correct compound list is analyzed and the site-specific target compound reporting limits are met. The pre-approved commercial laboratory program is not a certification program, nor does MDA endorse any particular laboratory. The MDA pesticide programs operate under Environmental Protection Agency Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) guidelines.

The MDA also pre-approves mobile field methods for use on agricultural chemical incident investigations and cleanups. Field or mobile laboratories interested in becoming pre-approved must submit the information outlined in MDA guidance document [GD25 Mobile Laboratory Quality Assurance/Quality Control Plans](#), which can be found on the MDA website.

| <b>MDA List 1 Pesticides</b> | <b>Soils RL<br/>(mg/Kg)</b> | <b>Water RL<br/>(µg/L)</b> | <b>MDA List 2 Pesticides</b> | <b>Soils RL<br/>(mg/Kg)</b> | <b>Water RL<br/>(µg/L)</b> |
|------------------------------|-----------------------------|----------------------------|------------------------------|-----------------------------|----------------------------|
| Acetochlor (Harness/Surpass) | 0.05                        | 0.5                        | 2,4-D                        | 0.1                         | 0.5                        |
| Alachlor (Lasso)             | 0.05                        | 0.5                        | 2,4-DB (Butyrac)             | 0.1                         | 0.5                        |
| Atrazine (Aatrex)            | 0.05                        | 0.5                        | 2,4,5-T                      | 0.1                         | 0.5                        |
| Deethylatrazine              | 0.05                        | 0.5                        | 2,4,5-TP (Silvex)            | 0.1                         | 0.5                        |
| Deisopropylatrazine          | 0.05                        | 0.5                        | Bentazon (Basagran)          | 0.1                         | 0.5                        |
| Dimethenamid (Frontier)      | 0.05                        | 0.5                        | Dicamba (Banvel)             | 0.1                         | 0.5                        |
| Chlorpyrifos (Lorsban)       | 0.05                        | 0.5                        | MCPA                         | 0.1                         | 0.3                        |
| Cyanazine (Bladex)           | 0.05                        | 0.2                        | Picloram (Tordon)            | 0.1                         | 0.5                        |
| EPTC (Eptam/Eradicane)       | 0.05                        | 0.5                        | Triclopyr (Garlon)           | 0.1                         | 0.5                        |
| Ethalfuralin (Sonalan)       | 0.05                        | 0.5                        |                              |                             |                            |
| Fonofos (Dyfonate)           | 0.05                        | 0.5                        | <b>Nutrients</b>             | <b>Soils RL</b>             | <b>Water RL</b>            |
| Metolachlor (Dual)           | 0.05                        | 0.5                        |                              | <b>(mg/Kg)</b>              | <b>(mg/L)</b>              |
| Metribuzin (Lexone/Sencor)   | 0.05                        | 0.5                        | Ammonia – N                  | 20                          | 0.05                       |
| Pendimethalin (Prowl)        | 0.05                        | 0.5                        | Nitrate + Nitrite – N        | NA                          | 1.0                        |
| Phorate (Thimet)             | 0.05                        | 0.3                        | Nitrate – N                  | 10                          | NA                         |
| Prometon (Pramitol)          | 0.05                        | 0.5                        | Total Kjeldahl Nitrogen      | 150                         | 1.0                        |
| Propachlor (Ramrod)          | 0.05                        | 0.5                        |                              |                             |                            |
| Propazine (Milogard)         | 0.05                        | 0.5                        |                              |                             |                            |
| Simazine (Princep)           | 0.05                        | 0.5                        |                              |                             |                            |
| Terbufos (Counter)           | 0.05                        | 0.2                        |                              |                             |                            |
| Triallate (Far-go)           | 0.05                        | 0.5                        |                              |                             |                            |
| Trifluralin (Treflan)        | 0.05                        | 0.5                        |                              |                             |                            |

NA = Not Applicable

**625 Robert St. N., St. Paul, MN 55155-2538** ☐ **651-201-6000 or 1-800-967-2474** ☐ **www.mda.state.mn.us**

In accordance with the Americans with Disabilities Act, this information is available in alternative forms of communication upon request by calling 651-201-6000. TTY users can call the Minnesota Relay Service at 711. The MDA is an equal opportunity employer and provider.

**Pre-Approved Commercial Laboratories and Methods:**  
**Fixed Base and Mobile**

|   |   |
|---|---|
| <p><b>ALS Environmental – Holland Facility</b> <i>Fixed Base</i><br/>         3352 128<sup>th</sup> Avenue<br/>         Holland, MI 49424<br/>         (616) 399-6070</p>                   | <p>Pre-approved Analytical Methods: Status - Current<br/> <u>Soils</u><br/>         Ammonia<br/>         Nitrate<br/>         Total Kjeldahl Nitrogen</p> <p><u>Water</u><br/>         Ammonia<br/>         Nitrate + Nitrite<br/>         Total Kjeldahl Nitrogen</p>  |
| <p><b>ECCS, a division of Pace Analytical Services, Inc.</b> <i>Fixed Base and Mobile Lab*</i><br/>         2525 Advance Road<br/>         Madison, WI 53718<br/>         (608)221-8700</p> | <p>Pre-approved Analytical Methods: Status - Current<br/> <u>Soils</u><br/>         MDA List 1<br/>         MDA List 2<br/>         Ammonia<br/>         Nitrate</p> <p><u>Water</u><br/>         MDA List 1<br/>         MDA List 2<br/>         Nitrate + Nitrite</p>   |
| <p><b>Keystone Laboratories, Inc.</b> <i>Fixed Base</i><br/>         600 E 17<sup>th</sup> St. S.<br/>         Newton, IA 50208<br/>         (641)792-8451</p>                              | <p>Pre-approved Analytical Methods: Status - Current<br/> <u>Soil</u><br/>         Ammonia<br/>         Nitrate</p> <p><u>Water</u><br/>         Ammonia<br/>         Nitrate + Nitrite</p>   |
| <p><b>Legend Technical Services</b> <i>Fixed Base</i><br/>         775 Vandalia Street<br/>         St. Paul, MN 55114<br/>         (651) 642-1150</p>                                      | <p>Pre-approved Analytical Methods: Status - Current<br/> <u>Soil</u><br/>         MDA List 1</p> <p><u>Water</u><br/>         MDA List 1</p>   |
| <p><b>Midwest Laboratories, Inc.</b> <i>Fixed Base</i><br/>         13611 B Street<br/>         Omaha, NE 68114<br/>         (402) 334-7770</p>   | <p>Pre-approved Analytical Methods: Status - Current<br/> <u>Soil</u><br/>         MDA List 1</p> <p><u>Water</u><br/>         MDA List 1</p>   |
| <p><b>Minnesota Valley Testing Laboratories</b> <i>Fixed Base</i><br/>         1126 North Front St.<br/>         New Ulm, MN 56073<br/>         (507)354-8517</p>                           | <p>Pre-approved Analytical Methods: Status - Current<br/> <u>Soil</u><br/>         MDA List 1<br/>         Ammonia<br/>         Nitrate<br/>         Total Kjeldahl Nitrogen</p> <p><u>Water</u><br/>         MDA List 1<br/>         Ammonia<br/>         Nitrate + Nitrite<br/>         Total Kjeldahl Nitrogen</p> |

## Pre-Approved Commercial Laboratories and Methods:

### Fixed Base and Mobile (continued)

|   |   |              |              |            |            |            |                   |                         |                         |  |                   |  |                         |
|---|---|--------------|--------------|------------|------------|------------|-------------------|-------------------------|-------------------------|--|-------------------|--|-------------------------|
| <p><b>Pace Analytical® – Minneapolis <i>Fixed Base</i></b><br/>                 1700 Elm Street Suite 200<br/>                 Minneapolis, MN 55414<br/>                 (612)607-6352</p> | <p>Pre-approved Analytical Methods: Status - Current</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><u>Soils</u></td> <td style="width: 50%;"><u>Water</u></td> </tr> <tr> <td>MDA List 1</td> <td>MDA List 1</td> </tr> <tr> <td>MDA List 2</td> <td>MDA List 2</td> </tr> <tr> <td></td> <td>Ammonia</td> </tr> <tr> <td></td> <td>Nitrate + Nitrite</td> </tr> <tr> <td></td> <td>Total Kjeldahl Nitrogen</td> </tr> </table> | <u>Soils</u> | <u>Water</u> | MDA List 1 | MDA List 1 | MDA List 2 | MDA List 2        |                         | Ammonia                 |  | Nitrate + Nitrite |  | Total Kjeldahl Nitrogen |
| <u>Soils</u>  | <u>Water</u>  |              |              |            |            |            |                   |                         |                         |  |                   |  |                         |
| MDA List 1  | MDA List 1  |              |              |            |            |            |                   |                         |                         |  |                   |  |                         |
| MDA List 2  | MDA List 2  |              |              |            |            |            |                   |                         |                         |  |                   |  |                         |
|   | Ammonia   |              |              |            |            |            |                   |                         |                         |  |                   |  |                         |
|   | Nitrate + Nitrite   |              |              |            |            |            |                   |                         |                         |  |                   |  |                         |
|   | Total Kjeldahl Nitrogen   |              |              |            |            |            |                   |                         |                         |  |                   |  |                         |
| <p><b>Pace Analytical® – Virginia, MN <i>Fixed Base</i></b><br/>                 315 Chestnut St.<br/>                 Virginia, MN 55792<br/>                 (218)742-1042</p>            | <p>Pre-approved Analytical Methods: Status - Current</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;"><u>Soils</u></td> <td style="width: 50%;"><u>Water</u></td> </tr> <tr> <td>Ammonia</td> <td>Ammonia</td> </tr> <tr> <td>Nitrate</td> <td>Nitrate + Nitrite</td> </tr> <tr> <td>Total Kjeldahl Nitrogen</td> <td>Total Kjeldahl Nitrogen</td> </tr> </table>  | <u>Soils</u> | <u>Water</u> | Ammonia    | Ammonia    | Nitrate    | Nitrate + Nitrite | Total Kjeldahl Nitrogen | Total Kjeldahl Nitrogen |  |                   |  |                         |
| <u>Soils</u>  | <u>Water</u>  |              |              |            |            |            |                   |                         |                         |  |                   |  |                         |
| Ammonia   | Ammonia   |              |              |            |            |            |                   |                         |                         |  |                   |  |                         |
| Nitrate   | Nitrate + Nitrite   |              |              |            |            |            |                   |                         |                         |  |                   |  |                         |
| Total Kjeldahl Nitrogen   | Total Kjeldahl Nitrogen   |              |              |            |            |            |                   |                         |                         |  |                   |  |                         |

Status: Information in the laboratory's file is current for calendar year unless noted.

\*The mobile laboratory is not approved for all situations and must be pre-approved by MDA staff prior to use:

- Mobile laboratories equipped with gas chromatography and mass spectrometry (GC/MS) may be used for initial site sample analysis of pesticides.
- Mobile laboratories equipped with alternative detectors such as electron capture (ECD) or flame ionization (FID) require at least 10% of the samples collected in duplicate at the same time as the initial samples, and analyzed by an independent GC/MS laboratory.
- Subsequent site sample analyses by mobile laboratories with ECD or FID detectors may be allowed by MDA, if it has been shown that there are no other analytes of concern.
- Excavated soils must be analyzed by GC/MS to meet disposition evaluation requirements, before off-site disposal, land application or other treatment or disposal.