

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. The MDA understands that when new analytes were added to MDA Lists 1, 2, 3 and 4, it became challenging for laboratories to meet all the program RLs. For a few analytes, the MDA may grant laboratories an exception to the program RLs which will be evaluated annually. The exceptions will be evaluated based on number of capable labs, changes in drinking water standards, and changes in pesticide label rates, among other factors. The exceptions may be removed at any time. Labs will be notified when exceptions are removed or modified.

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, 2, 3 and 4 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.

| MDA List 1 Pesticides | Soils RL (mg/Kg) | Water RL (µg/L) |
|--------------------------------|-------------------------|------------------------|
| Acetochlor (Surpass) | 0.05 | 0.5 |
| Alachlor (Lasso) | 0.05 | 0.5 |
| Atrazine (Aatrex) | 0.04 | 0.5 |
| Bifenthrin (Capture LFR) | 0.05 | 0.5 |
| Chlorpyrifos (Lorsban) | 0.05 | 0.5 |
| Cyanazine (Bladex) | 0.09 | 0.2 |
| Deethylatrazine | 0.05 | 0.5 |
| Deisopropylatrazine | 0.05 | 0.5 |
| Dimethenamid (Frontier) | 0.05 | 0.5 |
| EPTC (Eradicane) | 0.05 | 0.5 |
| Ethalfuralin (Sonalan) | 0.05 | 0.5 |
| Fonofos (Dyfonate) | 0.03 | 0.5 |
| Lambda-cyhalothrin (Lamcap II) | 0.08 | 0.1 |
| Metolachlor (Dual) | 0.05 | 0.5 |
| Metribuzin (Sencore) | 0.05 | 0.5 |
| Pendimethalin (Prowl) | 0.05 | 0.5 |
| Phorate (Thimet) | 0.05 | 0.3 |
| Prometon (Pramitol) | 0.05 | 0.5 |
| Propachlor (Ramrod) | 0.03 | 0.5 |

| MDA List 1 Pesticides cont. | Soils RL (mg/Kg) | Water RL (µg/L) |
|------------------------------------|-------------------------|------------------------|
| Propazine (Milogard) | 0.05 | 0.5 |
| Simazine (Princep) | 0.05 | 0.5 |
| Triallate (Far-go) | 0.05 | 0.5 |
| Trifluralin (Treflan) | 0.05 | 0.5 |
| MDA List 2 Pesticides | Soils RL (mg/Kg) | Water RL (µg/L) |
| 2,4,5-T | 0.05 | 0.5 |
| 2,4,5-TP (Silvex) | 0.1 | 0.5 |
| 2,4-D (Enlist One) | 0.1 | 0.5 |
| 2,4-DB (Agrisolutions 2,4-DB 200) | 0.05 | 0.5 |
| Bentazon (Basagran) | 0.1 | 0.5 |
| Clopyralid (Stinger) | 0.09 | 0.5 |
| Dicamba (Diflexx) | 0.1 | 0.5 |
| MCPA | 0.05 | 0.3 |
| Picloram (Tordon 22K) | 0.05 | 0.5 |
| Triclopyr (Garlon 4 Ultra) | 0.1 | 0.5 |
| MDA List 3 Pesticides | Soils RL (mg/Kg) | Water RL (µg/L) |
| AMPA | 0.1 | 1 |
| Glyphosate (Round up) | 0.1 | 1 |

| MDA List 4 Pesticides | Soils RL (mg/Kg) | Water RL (µg/L) |
|------------------------------|-----------------------------|----------------------------|
| Flumetsulam (Accolade) | 0.02 | 0.5 |
| Fomesafen (Flexstar) | 0.05 | 0.5 |
| Imazethapyr (Pursuit) | 0.02 | 0.5 |
| Mesotrione (Callisto) | 0.03 | 0.5 |
| Sulfentrazone (Authority) | 0.05 | 0.5 |
| Tembotrione (Laudis) | 0.005 | 0.5 |

| Nutrients | Soils RL (mg/Kg) | Water RL (mg/L) |
|-------------------------|-----------------------------|----------------------------|
| Nitrate + Nitrite – N | NA | 1.0 |
| Nitrate – N | 10 | NA |
| Total Kjeldahl Nitrogen | 150 | 1.0 |

NA = Not Applicable
mg/Kg = milligrams per kilogram
µg/L = micrograms per liter

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

| | | |
|--|---|-------------------------|
| ALS Environmental – Holland Facility <i>Fixed Base</i> | | |
| 3352 128 th Avenue Holland, MI 49424 (616) 399-6070 | Pre-approved Analytical Methods: Status – Current | |
| | <u>Soils</u> | <u>Water</u> |
| | Ammonia | Ammonia |
| | Nitrate | Nitrate + Nitrite |
| | Total Kjeldahl Nitrogen | Total Kjeldahl Nitrogen |
| Keystone Laboratories, Inc. <i>Fixed Base</i> | | |
| 600 E 17 th St. S. Newton, IA 50208 (641) 792-8451 | Pre-approved Analytical Methods: Status – Current | |
| | <u>Soil</u> | <u>Water</u> |
| | Ammonia | Ammonia |
| | Nitrate | Nitrate + Nitrite |
| Legend Technical Services <i>Fixed Base</i> | | |
| 88 Empire Drive St. Paul, MN 55103 (651) 642-1150 | Pre-approved Analytical Methods: Status – Current | |
| | <u>Soil</u> | <u>Water</u> |
| | Nitrate | Nitrate + Nitrite |
| Microbac Laboratories Inc.- Arcata <i>Fixed Base</i> | | |
| 5680 West End Road Arcata, CA 95521 (707) 822-4649 | Pre-approved Analytical Methods: Status – Current | |
| | <u>Soil</u> | <u>Water</u> |
| | MDA List 3 | MDA List 3 |
| Minnesota Valley Testing Laboratories <i>Fixed Base</i> | | |
| 1126 North Front St. New Ulm, MN 56073 (507) 354-8517 | Pre-approved Analytical Methods: Status – Current | |
| | <u>Soil</u> | <u>Water</u> |
| | MDA List 1 | MDA List 1 |
| | Ammonia | Ammonia |
| | Nitrate | Nitrate + Nitrite |
| | Total Kjeldahl Nitrogen | Total Kjeldahl Nitrogen |
| Pace Analytical Services – Duluth <i>Fixed Base</i> | | |
| 4730 Oneota Street Duluth, MN 55807 (218) 336-2115 | Pre-approved Analytical Methods: Status – Current | |
| | <u>Soil</u> | <u>Water</u> |
| | Ammonia | Ammonia |
| | Nitrate | Nitrate + Nitrite |
| | Total Kjeldahl Nitrogen | Total Kjeldahl Nitrogen |

Fixed Base and Mobile, continued
Pre-Approved Commercial Laboratories and Methods:

| | | |
|---|---|-------------------------|
| Pace Analytical Services – Minneapolis <i>Fixed Base</i> | | |
| 1700 Elm Street Suite 200 | Pre-approved Analytical Methods: Status – Current | |
| Minneapolis, MN 55414 | <u>Soil</u> | <u>Water</u> |
| (612) 607-6352 | Ammonia | Ammonia |
| | Nitrate | Nitrate + Nitrite |
| | Total Kjeldahl Nitrogen | Total Kjeldahl Nitrogen |
| Pace Analytical Services – Green Bay <i>Fixed Base</i> | | |
| 1241 Bellevue Street | Pre-approved Analytical Methods: Status – Current | |
| Green Bay, WI 54302 | <u>Soil</u> | <u>Water</u> |
| (902) 321-9426 | MDA List 1 | MDA List 1 |
| | Ammonia | Ammonia |
| | Nitrate | Nitrate + Nitrite |
| | Total Kjeldahl Nitrogen | Total Kjeldahl Nitrogen |
| South Dakota Agricultural Laboratories <i>Fixed Base</i> | | |
| 1335 Western Avenue | Pre-approved Analytical Methods: Status – Current | |
| Brookings, SD 57006 | <u>Soil</u> | <u>Water</u> |
| (605)-692-7325 | MDA List 2 | MDA List 2 |