

## SOIL TEST CHARGES-Research v23.1

| Item                                                                                             | Depth     | \$/sample |
|--------------------------------------------------------------------------------------------------|-----------|-----------|
| Kjeldahl Digestion                                                                               |           | \$ 11.50  |
| Total Nitrogen                                                                                   | per depth | \$ 6.25   |
| Total Phosphorus                                                                                 | per depth | \$ 6.25   |
| Total Nitrogen - (Combustion Analyzer)                                                           | per depth | \$ 12.00  |
| Nitrate-Nitrogen - NO <sub>3</sub> -N (per depth)                                                | per depth | \$ 3.50   |
| Ammonium-Nitrogen - NH <sub>4</sub> -N                                                           | per depth | \$ 5.50   |
| Phosphorus (P) - Olsen procedure                                                                 | per depth | \$ 3.50   |
| Potassium (K)                                                                                    | per depth | \$ 3.50   |
| pH (1:1 water)                                                                                   | per depth | \$ 3.00   |
| SMP Buffer pH                                                                                    | per depth | \$ 4.00   |
| Soluble Salts (EC) (1:1 water)                                                                   | per depth | \$ 3.00   |
| Organic Matter (Loss of Ignition)                                                                | per depth | \$ 3.50   |
| Soil moisture content (Gravimetric)                                                              | per depth | \$ 3.50   |
| Sulfate-Sulfur - SO <sub>4</sub> -S                                                              | per depth | \$ 3.50   |
| Chloride (Cl)                                                                                    | per depth | \$ 3.75   |
| Zinc (Zn)                                                                                        | per depth | \$ 3.75   |
| Copper (Cu)                                                                                      | per depth | \$ 3.75   |
| Manganese (Mn)                                                                                   | per depth | \$ 3.75   |
| Iron (Fe)                                                                                        | per depth | \$ 3.75   |
| Sodium (Na)                                                                                      | per depth | \$ 3.00   |
| Calcium (Ca)                                                                                     | per depth | \$ 3.00   |
| Magnesium (Mg)                                                                                   | per depth | \$ 3.00   |
| Calcium Carbonate Equivalent (CCE) CaCO <sub>3</sub> Equivalent                                  | per depth | \$ 8.00   |
| Cation Exchange Capacity (CEC) (summation)                                                       | per depth | \$ 17.50  |
| Cation Exchange Capacity (CEC) (Na Saturation Method)                                            | per depth | \$ 25.00  |
| Exchangable Sodium Percent                                                                       | per depth | \$ 17.50  |
| Hydrometer Mechanical Analysis (Soil Texture)                                                    | per depth | \$ 35.00  |
| Saturated Paste Package: Sodium Absorption Ratio (SAR), Soluble Salts (EC), Saturation %, and pH | per depth | \$ 30.00  |
| Saturation Extract tests available individually:                                                 |           |           |
| Paste prep and Saturation %                                                                      |           | \$ 11.00  |
| pH                                                                                               |           | \$ 4.00   |
| Soluble Salts (EC)                                                                               |           | \$ 4.00   |
| Sodium Absorption Ratio (Ca, Mg, Na)                                                             |           | \$ 10.00  |
| Potassium (K)                                                                                    |           | \$ 3.75   |
| Phosphorus (P)                                                                                   |           | \$ 3.75   |
| Alkalinity (carbonates and bicarbonates)                                                         |           | \$ 3.75   |
| Sulfate-Sulfur - SO <sub>4</sub> -S                                                              |           | \$ 3.50   |
| Chloride (Cl)                                                                                    |           | \$ 3.75   |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|----------|
| <b>Water Tests (Irrigation and Runoff)</b>                                                                                                                                                                      |            |          |
| Water Quality Analysis (Total Package)                                                                                                                                                                          |            | \$ 55.00 |
| Water Quality Analysis (Total Package-with recommendations)                                                                                                                                                     |            | \$ 75.00 |
| Magnesium, Sodium, Potassium, Alkalinity (carbonates and bicarbonates), and                                                                                                                                     |            |          |
| <b>Water tests offered individually:</b>                                                                                                                                                                        |            |          |
| Nitrate-Nitrogen - NO <sub>3</sub> -N                                                                                                                                                                           |            | \$ 3.75  |
| Phosphorus (P)                                                                                                                                                                                                  |            | \$ 3.75  |
| Potassium (K)                                                                                                                                                                                                   |            | \$ 3.75  |
| Calcium (Ca)                                                                                                                                                                                                    |            | \$ 3.00  |
| Magnesium (Mg)                                                                                                                                                                                                  |            | \$ 3.00  |
| Sodium (Na)                                                                                                                                                                                                     |            | \$ 3.00  |
| Chloride (Cl)                                                                                                                                                                                                   |            | \$ 3.75  |
| pH                                                                                                                                                                                                              |            | \$ 3.00  |
| Soluble Salts (EC)                                                                                                                                                                                              |            | \$ 3.00  |
| Alkalinity (carbonates and bicarbonates)                                                                                                                                                                        |            | \$ 3.75  |
| Zinc (Zn), Iron (Fe), Copper (Cu), Manganese (Mn) EACH TEST                                                                                                                                                     |            | \$ 3.50  |
| <b>Miscellaneous:</b>                                                                                                                                                                                           |            |          |
| Greenhouse Growth Media                                                                                                                                                                                         | per depth  | \$ 35.00 |
| Hand Ground Samples-fee will be added if inadequate sample is submitted                                                                                                                                         | per sample | \$ 3.00  |
| International Soils (including Canada) per sample                                                                                                                                                               | per sample | \$ 5.00  |
| <b>Special Request Analysis - Call for Pricing</b>                                                                                                                                                              |            |          |
| Prices subject to change without notice. For most current version visit our website:<br><a href="http://www.ndsu.edu/soils/services/soil_testing_lab/">http://www.ndsu.edu/soils/services/soil_testing_lab/</a> |            |          |

