



**2018**

**STANDARD LABORATORIES, INC.**

## **Soil & Overburden**

**Saturated Paste and Paste Extract  
Preparation**

**Soluble Constituents**

**pH**

**Electrical Conductivity**

**Calcium**

**Magnesium**

**Sodium**

**Potassium**

**Alkalinity**

**Carbonate/Bicarbonate/Hydroxide**

**Chloride**

**Sulfate**

**Sodium Absorption Ratio**

**Total Dissolved Solids**

**Nitrate-Nitrogen**

**Ammonia-Nitrogen**

**Aluminum**

**Boron**

**Iron**

**Manganese**

**Acid Soluble Iron**

**Acid Soluble Manganese**

**Acid-Base Account**

**Boron (Hot Water Soluble)**

**Carbonate Content / Inorganic Carbon  
(Coulometric)**

**Cation Exchange Capacity (USDA)**

**Cation Exchange Capacity (Sum of Bases)**

**Exchangeable Cations (Ca, Mg, Na, K)**

**Exchangeable Acidity**

**Exchangeable Metals**

**Micronutrients, DTPA Extraction**

**Neutralization Potential**

**Nitrate-Nitrogen**

**Organic Carbon (Walkley Black)**

**Organic Matter (Titration or Ignition)**

**pH (1.1 Water)**

**pH (SMP Buffer)**

**Phosphorus (P-1 or P-2)**

**Potassium (1N Ammonium Acetate)**

**Specific Gravity (Particle Density)**

**Sulfur (Pyritic)**

**Sulfur (Sulfate)**

**Sulfur (Total)**

**Texture (Sand, Silt, Clay by Hydrometer)**

**Texture (Sand, Silt, Clay by Pipette)**

**Coarse Material Greater than 2mm**

**Trace Elements**

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