

**MAINE SOIL TESTING SERVICE (STS) and ANALYTICAL LAB (AL)****Soil Test Packages:****(Price per sample unless otherwise indicated)**

<b>1. Standard Soil Test</b> (pH; Lime Index; Available Phosphorus, Potassium, Calcium, Magnesium, Sulfur, Boron, Copper, Iron, Manganese, Sodium, Zinc by modified Morgan method; Organic matter; Metals scan; Calculated Cation Exchange Capacity). Recommendations for corrective amendments.	\$18
<b>1A. Comprehensive Soil Test:</b> Standard Test plus Available nitrogen (Nitrate plus Ammonium) – Most appropriate for samples taken from May to September.	\$25
<b>1B. Winter discount</b> - full Standard Soil Test, run on any soil sample <b>received at the lab between January 1 and March 1</b> . <i>Sample in late fall, set aside to air-dry until discount period.</i> Report will be sent out within 4 weeks. This discount applies to the basic Standard Soil Test <b>only</b> .	<b>effective 01/01/19</b> \$15
<b>1C. Volume Discount:</b> 30 or more samples in 1 delivery for Standard Soil Test. <b>Samples must be shipped or delivered in STS sample containers</b>	\$15
<b>2A. Add-on charge for Soil Biological Health</b> (Microbial Biomass w/ suggested guidelines)	\$12
<b>2B. Add-on charge for Soluble Salts</b>	\$7
<b>2C. Add-on charge for Nitrate + Ammonium Nitrogen</b>	\$7
<b>3A. Basic High Tunnel Package</b> (newer houses < 3 yrs. old or regularly uncovered or flushed) - Standard (Field) Soil Test with recommendations, plus Soluble Salts, Nitrate+Ammonium.	\$25
<b>3B. Long-term/Combined High Tunnel Package</b> (for older, unflushed or heavily amended houses): Basic High Tunnel Test PLUS Saturated Media Extract for all major and micronutrients. Two-page report with both season-long and short-term nutrient availability.	\$30
<b>4. Soil Health/Quality Package</b> (Comprehensive Soil Test plus Texture, Aggregate Stability, Plant-available Water, Active Carbon/Microbial Biomass, Potential Nitrogen Supply, and an evaluation of Soil Compaction measurements at sampling time [requires a penetrometer] )	\$60
<b>5. Nutrient Management/Grid Sample Package</b> (Soil pH; Lime buffer pH; Available P, K, Mg, Ca, Fe, Mn, Zn). <i>Customer choice of extraction method: Morgan, modified Morgan, or Mehlich-3.</i> Data reported in spreadsheet format, without recommendations.	\$14
<b>6. Greenhouse Media Analysis</b> (pH; Total Soluble Salts; Nitrate+Ammonium-N, Ca, K, Mg, P, Al, B, Cu, Fe, Mn, Mo, Na, S, Zn) by Saturated Media Extract	\$18
<b>7. Forest Soil Package</b> (pH, exchangeable acidity, Total C/N, LOI-OM, Ammonium chloride-extractable Ca, K, Mg, P, Al, Fe, Mn, Na, Zn; Calculated CEC)	\$40

**Additional/Separate Analyses upon request:****(Price per sample unless otherwise indicated)**

8. Additional/Add-on Extractions (Mehlich 3, Morgan, Modified Morgan, Am. Oxalate, DTPA)	\$12
9. Lead Scan (Total Soil Lead content - nitric acid extraction)	\$12
10. Organic Matter only	\$ 8
11. Nitrate Only (PSNT: 1 – 2 day turnaround)	\$15
12. Amino Sugar Nitrogen (Illinois soil nitrogen test)	\$18
13. Water Stable Aggregate Analysis: 0.25+, 0.5+, 1.0+ mm size choices (separate sizes run and charged separately)	\$24
14. Soluble Salts only	\$10
15. Particle Size Analysis (Texture)	\$24
16. pH only <b>OR</b> pH plus lime requirements	\$12
17. Exchangeable Acidity (titration)	\$12
18. Cation Exchange Capacity (measured by Displacement Method at pH 7.0)	\$35
19. Sulfate-S (Phosphate extract)	\$12
20. KCl extractable NH <sub>4</sub> and NO <sub>3</sub>	\$18
21. EPA Acid Digestion Method 3051 ----- Plus Charge for any Element by ICP (Al,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Na,Ni,P,Pb,S,Ti,V,Zn)	\$20/sample \$10/element
22.Mercury (EPA Method 7471)	\$60
23. EPA Acid Digestion Method 3010 ----- Plus Charge for As and/or Se (EPA Method 3010) -----	\$20/sample \$20/element
24.Total Si (HF digestion)	\$50
25.Combustion Analysis – total C, total N-----	\$18 for any one element \$23 for both
Prepped sample credit (dried & sieved) -----	\$3 credit
26. Water extractable Nitrate Nitrogen, Sulfate-S, Chloride Plus Charge for water extraction of solid sample	\$10/per ion \$10/sample

**PLANT TISSUE TESTS (AL)****(Price per sample unless otherwise indicated)**

1. <b>Standard Analysis</b> (Nitrogen, Phosphorus, Potassium, Calcium, Magnesium, Aluminum, Boron, Copper, Iron, Manganese, and Zinc)----- (if sample dried & ground) -----	\$27 \$24
2. Combustion Analysis – total N, total C  Prepped sample credit (dried & ground)	\$18 for any one element \$23 for both \$3.00 credit
3. Phosphorus, Potassium, Calcium, Magnesium, Aluminum, Boron, Copper, Iron, Manganese, and Zinc (by dry ashing)----- (if sample dried & ground) -----	\$18 \$15
4. Nitrate-N (turnaround in 1–2 working days)	\$18
5. EPA Acid Digestion Method 3051 ----- Plus Charge for any Element by ICP (Al,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Na,Ni,P,Pb,S,Ti,V,Zn)	\$20 \$10/element
6. Mercury (EPA Method 7471)	\$60
7. EPA Acid Digestion Method 3010 ----- Plus Charge for As and/or Se (EPA Method 3010) -----	\$20/sample \$20/element

**Fertilizer, Manure, Solid Wastes, and Soil Amendments****Packages:****(Price per sample unless otherwise indicated)**

<b>1. Manure Quality Analysis</b> (% Moisture, Total Nitrogen, Ammonia Nitrogen, Calcium, Phosphorus, Potassium, Magnesium, Boron, Copper, Iron, Manganese, Sodium, Zinc )	\$40
<b>2A. Basic Compost Test</b> (bulk density, pH, conductivity, TS, TVS, NO <sub>3</sub> -N, NH <sub>4</sub> -N, total C, total N, total P,K, Mg, Ca, B, Cu, Fe, Mn, Zn) <b>Requires 1 quart zip-loc bag of sample.</b>	\$55
<b>2B. Comprehensive Compost Test</b> - Basic Compost Test plus Dewar Self-Heating Test (maturity level and status of composting process). <b>Requires 1 gallon zip-loc bag of sample.</b>	\$65
<b>3. Compost Feedstock Test</b> (bulk density, TS, TVS, total C, total N) <b>Requires 1 quart zip-loc bag of sample.</b>	\$30
<b>4. Standard Sludge Analysis</b> --(Regulatory Characterization) (TS, TVS, pH, TKN, NH <sub>4</sub> -N, NO <sub>3</sub> -N, Cl, As, Ca, Cd, Cr, Cu, Fe, Hg, K, Mg, Mo, Na, Ni, P, Pb, Se, Zn)	\$350
<b>5. Commercial Fertilizer Analysis For Label Guarantee</b> (Total Nitrogen, Available Phosphorus, Soluble Potassium - includes splitting, grinding, and archiving.)	\$60
<b>6. Lime Package:</b> Calcium Carbonate Equivalence of Liming Materials, % Ca and Mg, Sieve Test (20, 40, 60, 80, 100 mesh)	\$65

**Additional/Separate Analyses upon request:****(Price per sample unless otherwise indicated)**

7. pH (saturated media extract)	\$10
8. Conductivity (saturated media extract)	\$10
9. Moisture	\$10
10. Total Kjeldahl Nitrogen	\$25
11. Water extractable Nitrate Nitrogen, Sulfate-S, Chloride Plus Charge for water extraction of solid sample	\$10/per ion \$10/sample
12. Combustion Analysis – total N, total C-----  Prepped sample credit (dried & ground)-----	\$18 for any one element \$23 for both \$3.00 credit
13. Available Phosphorus, Soluble Potassium (Both) (Neutral Ammonium Citrate extract)	\$35
14. Calcium Carbonate Equivalence of Liming Materials	\$40
15. Total P, K, Mg, Ca, B, Cu, Fe, Mn, Zn (by dry ashing)	\$18
16. *EPA Acid Digestion Method 3051 ----- Plus Charge for any Element by ICP (Al,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Na,Ni,P,Pb,S,Ti,V,Zn)	\$20/sample \$10/element
17. EPA Acid Digestion Method 3010 ----- Plus Charge for As and/or Se (EPA Method 3010) -----	\$20/sample \$20/element
18. Mercury (EPA Method 7471)	\$60
19. Total Silica (HF digestion)	\$60
20. Compost Stability test (Dewar/self heating)	\$15
21. Compost Sieve test (1 in.,0.5 in.,#4,#10,#40,#200)	\$30
22. KCl extractable NH <sub>4</sub> and NO <sub>3</sub>	\$20
23. Total Volatile Solids/Ash	\$ 10

**WATER AND WASTEWATER (AL)**

**Packages:**

**(Price per sample unless otherwise indicated)**

<b>1. Irrigation Water Analysis</b> (Nitrate, Ammonium, pH, Conductivity, Alkalinity, Ca, K, Mg, P, Al, B, Cu, Fe, Mn, Na, S, Zn) <b>Pricing for water samples ONLY.</b>	\$35
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**Additional/Separate Analyses upon request:**

**(Price per sample unless otherwise indicated)**

<b>2. Filtration charge (if needed, prior to analysis)</b>	\$ 5
3. Total Alkalinity	\$15
4. Nitrogen, Ammonium (Macro-Kjeldahl) distillation for solids and suspensions	\$10
5. Nitrogen, Ammonium (Colorimetric Analysis) on solutions only	\$ 8
6. Nitrogen, Nitrate (Colorimetric Analysis)	\$ 8
7. Nitrogen, Total (Persulfate digest)	\$20
8. pH	\$10
9. Phosphorus, Ortho (Colorimetric Analysis)	\$ 8
10. Total P (Persulfate digest/Colorimetric Analysis – SM 4500-P B.5)	\$20
11. Solids, Dissolved	\$ 10
12. Solids, Suspended	\$ 10
13. Electrical Conductivity	\$ 10
14. Nitrate Nitrogen, Sulfate-S, Phosphate-P, and/or Chloride by Ion Chromatograph	\$10/per ion
15. Soluble Elements (for any Element by ICP ) (Al,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Na,Ni,P,Pb,S,Ti,V,Zn)	\$10/element
16. *EPA Acid Digestion Method 3051 ----- Plus Charge for any Element by ICP (Al,B,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Li,Mg,Mn,Mo,Na,Ni,P,Pb,S,Ti,V,Zn)	\$20/sample \$10/element
17. EPA Acid Digestion Method 3010 ----- Plus Charge for As and/or Se (EPA Method 3010) -----	\$20/sample \$20/element
18. Mercury (EPA Method 7471)	\$60
19. Standard Sludge Analysis--(Regulatory characterization) (TS, TVS, pH, TKN, NH <sub>4</sub> -N, NO <sub>3</sub> -N, Cl, As, Ca, Cd, Cr, Cu, Fe, Hg, K, Mg, Mo, Na, Ni, P, Pb, Se, Zn)	\$350

**Prepared Sample (Solution) prices**

ICP	\$8.00/ Sample for soil extracts in modified Morgan or Mehlich III matrices \$10.00/ Sample for plant nutrient suite in 3-5 % HCl (Ca K Mg P Al B Cu Fe Mn Zn) \$12.00/Sample for metals suite in 10-30 % HNO <sub>3</sub> (Cd Cr Cu Mo Ni Pb Zn)
Ion Analyzer (OI)	\$8.00/ Sample for NH <sub>4</sub> <u>or</u> NO <sub>3</sub> <u>or</u> PO <sub>4</sub> or Cl \$10.00/ Sample for NH <sub>4</sub> <u>plus</u> NO <sub>3</sub>
Ion Chromatograph	\$10.00/ each anion (F, Cl, NO <sub>2</sub> -N, NO <sub>3</sub> -N, SO <sub>4</sub> -S, PO <sub>4</sub> -P)