

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

1. Standard Soil Test (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
1A. Comprehensive Soil Test: Standard Test plus Available nitrogen (Nitrate plus Ammonium) – Most appropriate for samples taken from May to September.	\$25
1B. Winter discount - full Standard Soil Test, run on any soil sample received at the lab between January 1 and March 1 . <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 only .	effective 01/01/19 \$15
1C. Volume Discount: 30 or more samples in 1 delivery for Standard Soil Test. Samples must be shipped or delivered in STS sample containers	\$15
2A. Add-on charge for Soil Biological Health (Microbial Biomass w/ suggested guidelines)	\$12
2B. Add-on charge for Soluble Salts	\$7
2C. Add-on charge for Nitrate + Ammonium Nitrogen	\$7
3A. Basic High Tunnel Package (newer houses < 3 yrs. old or regularly uncovered or flushed) - Standard (Field) Soil Test with recommendations, plus Soluble Salts, Nitrate+Ammonium.	\$25
3B. Long-term/Combined High Tunnel Package (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
4. Soil Health/Quality Package (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
5. Nutrient Management/Grid Sample Package (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
6. Greenhouse Media Analysis (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
7. Forest Soil Package (pH, exchangeable acidity, Total C/N, LOI-OM, Ammonium chloride-extractable Ca, K, Mg, P, Al, Fe, Mn, Na, Zn; Calculated CEC)	\$40
8. Total Sorbed Metals Package Cd, Cu, Pb, Ni, Cr, Zn by EPA 3050B (D.L ~1ppm)	\$60 (plus Arsenic \$70)

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 OR 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 ₄ and NO ₃	\$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 \$3 credit
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. Standard Analysis (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)**

1. Manure Quality Analysis (% Moisture, Total Nitrogen, Ammonia Nitrogen, Calcium, Phosphorus, Potassium, Magnesium, Boron, Copper, Iron, Manganese, Sodium, Zinc)	\$40
2A. Basic Compost Test (bulk density, pH, conductivity, TS, TVS, NO ₃ -N, NH ₄ -N, total C, total N, total P,K, Mg, Ca, B, Cu, Fe, Mn, Zn) Requires 1 quart zip-loc bag of sample.	\$55
2B. Comprehensive Compost Test - Basic Compost Test plus Dewar Self-Heating Test (maturity level and status of composting process). Requires 1 gallon zip-loc bag of sample.	\$65
3. Compost Feedstock Test (bulk density, TS, TVS, total C, total N) Requires 1 quart zip-loc bag of sample.	\$30
4. Standard Sludge Analysis --(Regulatory Characterization) (TS, TVS, pH, TKN, NH ₄ -N, NO ₃ -N, Cl, As, Ca, Cd, Cr, Cu, Fe, Hg, K, Mg, Mo, Na, Ni, P, Pb, Se, Zn)	\$350
5. Commercial Fertilizer Analysis For Label Guarantee (Total Nitrogen, Available Phosphorus, Soluble Potassium - includes splitting, grinding, and archiving.)	\$60
6. Lime Package: Calcium Carbonate Equivalence of Liming Materials, % Ca and Mg, Sieve Test (20, 40, 60, 80, 100 mesh)	\$65
7. Total Sorbed Metals Package Cd, Cu, Pb, Ni, Cr, Zn by EPA 3050B (D.L ~1ppm)	\$60 (plus Arsenic \$70) see form for additional elements.

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 ₄ and NO ₃	\$20
23. Total Volatile Solids/Ash	\$ 10

WATER AND WASTEWATER (AL)

Packages:

(Price per sample unless otherwise indicated)

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

(Price per sample unless otherwise indicated)

2. Filtration charge (if needed, prior to analysis)	\$ 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 ₄ -N, NO ₃ -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 ₃ (Cd Cr Cu Mo Ni Pb Zn)
Ion Analyzer (OI)	\$8.00/ Sample for NH ₄ <u>or</u> NO ₃ <u>or</u> PO ₄ or Cl \$10.00/ Sample for NH ₄ <u>plus</u> NO ₃
Ion Chromatograph	\$10.00/ each anion (F, Cl, NO ₂ -N, NO ₃ -N, SO ₄ -S, PO ₄ -P)

