

# Texas Plant & Soil Lab

Since 1938 - Still The First Soil Lab In Texas  
Serving The World From The Rio Grande Valley.

5115 West Monte Cristo Road  
Edinburg, Texas 78541-8852  
Telephone: 956-383-0739 ♦ FAX: 956-383-0730  
www.TexasPlantAndSoilLab.com



LAB N<sup>OS</sup> FROM \_\_\_\_\_ TO \_\_\_\_\_  
 CLIENT N<sup>O</sup>: \_\_\_\_\_  
 RECEIVED: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 RELEASED: \_\_\_\_\_  
 BY: \_\_\_\_\_  
 REPORT SENT: \_\_\_\_\_

## SOIL SAMPLE SUBMITTAL AND CHAIN OF CUSTODY

- USE ORDER FORM FOR FULL CLIENT DETAILS -

NAME: \_\_\_\_\_ TELEPHONE: \_\_\_\_\_  
 COMPANY: \_\_\_\_\_ E-MAIL: \_\_\_\_\_

DATE SAMPLES TAKEN: \_\_\_\_\_ SAMPLES TAKEN BY: \_\_\_\_\_  
 FIELD LOCATION: \_\_\_\_\_ AREA SIZE: \_\_\_\_\_  ACRES  SQ.FT.  Ha.  
 IRRIGATION METHOD:  NONE  FLOOD  SPRINKLER  PIVOT  DRIP  MICROJET  OTHER COMMENT BELOW  
 WATER SOURCE:  Municipal/Co-op  WELL - Depth \_\_\_\_\_  LAKE  RIVER/CREEK  EFFLUENT  
 FERTILIZATION PRACTICE:  CONVENTIONAL/CHEMICAL  SUSTAINABLE  ORGANIC  
 PROBLEMS OR COMMENTS: \_\_\_\_\_

**HISTORY** (Please furnish as much information as possible - including previous fertilizers, lime, sulfur, inoculants, crops, yields, etc. This allows us to provide you better interpretations and recommendations):

### INDICATE ANALYSES DESIRED ON BACK OF THIS PAGE.

	LAB NUMBER (LAB USE ONLY)	FIELD / SAMPLE I.D. (MAXIMUM 10 CHARACTERS)	SAMPLE DEPTH-INS. FROM - TO	LAST CROP(S)	FERTILIZER(S) APPLIED	NEXT CROP(S)	YIELD GOAL
1			--				
2			--				
3			--				
4			--				
5			--				
6			--				
7			--				
8			--				
9			--				
10			--				
11			--				
12			--				
13			--				
14			--				
15			--				

# SOIL TESTS ORDER

✓ CHECK TESTS DESIRED

TEST ↓	LINE →	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
COMPREHENSIVE CO <sub>2</sub> – INCLUDES Fe-Zn-Mn-Cu																
COMPREHENSIVE CO <sub>2</sub> + LOI ORGANIC MATTER																
COMPREHENSIVE CO <sub>2</sub> + BORON (SPECIAL PRICE)																
COMPREHENSIVE CO <sub>2</sub> + BORON + LOI ORGANIC MATTER																
COMPREHENSIVE CO <sub>2</sub> + BORON + LOI ORGANIC MATTER + <b>SOLVITA</b> ® SOIL HEALTH & ACTIVITY TEST																
COMPREHENSIVE CO <sub>2</sub> – CALIFORNIA																
STANDARD CO <sub>2</sub> – <b>NO</b> Fe-Zn-Mn-Cu – <b>NOT RECOMMENDED</b>																
STANDARD CO <sub>2</sub> + LOI ORGANIC MATTER																
SUBSOIL CO <sub>2</sub> – NO Fe-Zn-Mn-Cu – NO ORGANIC MATTER																
MEHLICH III																
MEHLICH III + WATER SOLUBLE																
<b>SOLVITA</b> ® SOIL HEALTH & ACTIVITY TEST – N & P																
ADD CHLORIDES																
ADD TEXTURE (Bouyoucos)																
ADD LOI (Loss On Ignition) ORGANIC MATTER																
ADD SULFATE																
ADD CEC – Cat-ion Exchange Capacity																
BASIC NUTRIENTS – N-P-K-Ca ONLY – NO ADD-ONS																
HEAVY METALS PROTOCOL – FICAP																
HEAVY METALS PROTOCOL – NPDES																
HEAVY METALS PROTOCOL – RCRA																
HEAVY METALS PROTOCOL – QICAP																
HEAVY METALS PROTOCOL – TAL																
HEAVY METALS PROTOCOL – PP																
HEAVY METALS PROTOCOL – MINI																
HEAVY METALS PROTOCOL – CA																
HEAVY METALS PROTOCOL – WA																
HEAVY METALS PROTOCOL – NR																
HEAVY METALS OTHER (specify) –																
HEAVY METALS OTHER (specify) –																
HEAVY METALS OTHER (specify) –																
HEAVY METALS OTHER (specify) –																
HEAVY METALS OTHER (specify) –																
HEAVY METALS OTHER (specify) –																
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HEAVY METALS OTHER (specify) –																
HEAVY METALS OTHER (specify) –																

***Micronutrient problems can cause as many, if not more, problems as do major nutrients.***

***Accordingly, we do not recommend the Standard Soil Test.***

**Please see Soil Test Price List and Protocols & Heavy Metals Reference for details.**

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## Multiple Soil Tests Order Form



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Facsimile: 956-383-0730

[www.TexasPlantAndSoilLab.com](http://www.TexasPlantAndSoilLab.com)

NAME: \_\_\_\_\_

COMPANY: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

TOWN/STATE/ZIP: \_\_\_\_\_

E-MAIL: \_\_\_\_\_ TELEPHONE: \_\_\_\_\_

CONSULTANT NAME: \_\_\_\_\_

CONSULTANT E-MAIL: \_\_\_\_\_ TELEPHONE: \_\_\_\_\_

CONSULTANT ADDRESS: \_\_\_\_\_

SEND REPORTS BY:  E-MAIL (Preferred)  POSTAL MAIL  FAX (Not Recommended)

TO:  CLIENT  CONSULTANT

PLEASE SHOW PAYMENT METHOD:  CHECK  CREDIT CARD  MONEY ORDER

RECEIVED: _____
POSTED: _____

### - CREDIT CARD CHARGE INFORMATION (See Instructions) -

Name on Card: \_\_\_\_\_

Billing Address: \_\_\_\_\_

STREET or P.O. BOX

STATE

ZIP CODE

Credit Card Type:  Discover  American Express  VISA  MasterCard

Credit Card Number: \_\_\_\_\_ Expires: \_\_\_\_/\_\_\_\_

Authorized Signature: \_\_\_\_\_ Security Code: \_\_\_\_\_

*Your card will not be charged until samples are received by us.*

### - CHARGE/PAYMENT AMOUNT (From Back of Soil Sample Submittal Form) -

LINE	TOTAL	LINE	TOTAL
1	\$	9	\$
2	\$	10	\$
3	\$	11	\$
4	\$	12	\$
5	\$	13	\$
6	\$	14	\$
7	\$	15	\$
8	\$	-----	-----

TOTAL ORDER ..... \$ \_\_\_\_\_

**INSTRUCTIONS:** Credit card information may be **FAXED** or **CALLED IN** if you do not care to include on this form with your samples. Include this form and **Soil Sample Submittal Forms** in the shipping box.

***DO NOT PUT ANY FORMS IN SOIL SAMPLE BAGS.***

**SEE LATEST PRICE LIST.**

**- MULTIPLE SOIL TESTS PRICE LIST -  
- PRIMARY & ADD-ON TESTS -**

DESCRIPTION	PRICE
Comprehensive CO <sub>2</sub> Extraction Soil Test – Includes Major Micronutrients Cu, Zn, Mn, Fe	\$55.00
Comprehensive CO <sub>2</sub> Extraction Soil Test + LOI Organic Matter	\$73.00
Comprehensive CO <sub>2</sub> Extraction Soil Test + Boron (Special Price)	\$70.00
Comprehensive CO <sub>2</sub> Extraction Soil Test + LOI Organic Matter + Boron	\$88.00
Comprehensive CO <sub>2</sub> Extraction Soil Test + LOI Organic Matter + Boron + <b>SOLVITA</b> ® Test (Special Price)	\$118.00
California Comprehensive CO <sub>2</sub> Soil Test - Includes Boron + Bicarbonates + Chlorides + Sulfates	\$120.00
Standard CO <sub>2</sub> Extraction Soil Test Only - <b>NO MICRONUTRIENTS – NOT RECOMMENDED</b>	\$33.00
Standard CO <sub>2</sub> Extraction Soil Test + LOI Organic Matter	\$51.00
Subsoil CO <sub>2</sub> Extraction Soil Test – <b>NO Zn, Cu, Fe, Mn or Humus Fraction</b>	\$33.00
Mehlich III	\$22.00
Mehlich III + Water Soluble	\$31.00
Basic Nutrients – Neutral Extraction – N-P-K-Ca ONLY – NO OPTIONAL ADD-ONS	\$15.00
- Optional Add-On Tests -	
<b>SOLVITA</b> ® Soil Health & Activity Test – N & P	\$35.00
Chlorides	\$20.00
Texture (Bouyoucos)	\$14.00
LOI (Loss On Ignition) Organic Matter – Important for Sustainable Growers	\$22.00
Sulfate	\$22.00
CEC – Cat-ion Exchange Capacity + % Base Saturation	\$20.00

**- HEAVY METALS PROTOCOLS -**

DESCRIPTION	PRICE EA.
FICAP	\$436.00
NPDES	\$141.00
RCRA	\$226.00
QICAP	\$246.00
TAL	\$381.00
PP	\$331.00
MINI	\$91.00
CA	\$225.00
WA	\$195.00
NR	\$95.00

See **HEAVY METALS** sheet for details.  
**CALL FOR PROTOCOLS DISCOUNTS.**

**INDIVIDUAL MICRONUTRIENT / HEAVY METALS PRICES**

First Element per Sample – No Discount – \$52.00  
Each Additional Element per Sample – \$21.00

**DISCOUNTS FROM PRICES SHOWN ABOVE - PER SAMPLE - PER SHIPMENT**

TEST	1 TO 6 SAMPLES	7 TO 10 SAMPLES	11 TO 20 SAMPLES	21 + SAMPLES
Comprehensive	NONE	- \$2	- \$4	- \$5
Standard	NONE	- \$2	- \$4	- \$5
Subsoil	NONE	- \$1	- \$2	- \$3
<b>SOLVITA</b> ®	NONE	- \$2	- \$5	- \$7
Mehlich III	NONE	- \$2	- \$3	- \$6
Mehlich III +	NONE	- \$2	- \$3	- \$6
Basic Nutrients	NONE	- \$2	- \$4	- \$5
Heavy Metals Additional Elements Each	NONE	- \$2	- \$5	- \$7

**No discount on the First Individual Micronutrient / Heavy Metals Element – Price includes Sample Preparation.**  
No Discount on Add-On Tests.

**The CO<sub>2</sub> Extraction Method Soil Test Report Includes:**

- ♦ SOIL TEXTURE
- ♦ % HUMUS FRACTION
- ♦ CO<sub>3</sub>
- ♦ NITRATE (NO<sub>3</sub>)
- ♦ Na:Ca

♦ Na:Mg

BY CO<sub>2</sub> EXTRACTION ONLY -  
♦ PHOSPHATE (P<sub>2</sub>O<sub>5</sub>)

BY WATER AND CO<sub>2</sub> EXTRACTION -

- ♦ POTASSIUM (K)
- ♦ SODIUM (Na)
- ♦ CALCIUM (Ca)
- ♦ MAGNESIUM (Mg)

The Report also includes detailed custom interpretations and recommendations for your crop, soil and fertilization practice.

**PRICES EFFECTIVE May 11<sup>th</sup>, 2011.**

Prices subject to change without prior notice.

# PROTOCOLS AND HEAVY METALS REFERENCE FOR SOIL, WATER, PLANTS & COMPOST.

**NOTE THAT THE PROTOCOLS AND TESTS SHOWN MAY INCLUDE ANALYSES AND OTHER FEATURES NOT MENTIONED.**

**Heavy Metal Micronutrients** – Even though this list consists of Heavy Metals, they are classified as Micronutrients as they are essential to plant health and development. However, any significant buildup of any of these can be toxic ☠ to humans, animals and plants.

☠ **Undesirable Heavy Metals** – Significant amounts of these can be toxic to plants or extremely hazardous to health.

⊙ **Sodium** – Although a Secondary Micronutrient, a significant buildup (as NaCl) is highly toxic to plants due to reverse osmosis.

■ **Sulfur** – While a Micronutrient, Sulfur is perhaps more significant as an acidifier in alkaline soils, acting to release water insoluble nutrient compounds into water soluble forms readily available for plant root absorption.

**YOU ARE NOT RESTRICTED TO THE PROTOCOLS – ORDER ANY SINGLE OR COMBINATION OF INDIVIDUAL ELEMENTS DESIRED.**

**Standard Analytical Protocols (● = Total Content strong acid extraction) –**

M3 – (SOIL) Standard Mehlich III Extraction (Total Content) – includes pH & N.

M3F – (SOIL) Full-Screen Mehlich III – Standard Mehlich III Extraction plus Water Soluble Extraction (+W).

FICAP – Full-screen Inductively Coupled Argon Plasma (ICAP) instrument analysis.

NPDES – National Pollutant Discharge Elimination System.

RCRA – Resource Conservation and Recovery Act.

QICAP – Quantitative ICAP screen.

TAL – Target Analyte List metals.

PP – Priority Pollutant metals.

COMP – (SOIL) TPSL Comprehensive CO<sub>2</sub> Extraction Method Soil Test – INCLUDES pH, N and MANY OTHER FEATURES.

STD – (SOIL) TPSL Standard CO<sub>2</sub> Extraction Method Soil Test – INCLUDES pH, N and MANY OTHER FEATURES.

BASIC – (SOIL) Basic Fertilizer Guide (Soil Nutrients Test) – specially-modified extraction.

MINI – Screen for most common Heavy Metals concerns.

CA – CANADA and CALIFORNIA Registrations.

WA – WASHINGTON State registration.

NR – Non-Registration screen.

- ① Primary Nutrient. ② Major Micronutrient. ③ Secondary Micronutrient. ④ Trace Element □ CO<sub>2</sub> Extraction  
 +W = and Water Soluble Extraction. ⊗ Neutral Extraction (NH<sub>4</sub>AoC). ○ Calculated Micronutrient.

ELEMENT	M3	M3F	FICAP	NPDES	RCRA	QICAP	TAL	PP	COMP	STD	BASIC	MINI	CA	WA	NR
Aluminum	③		●			●	●								
Antimony	④		●				●	●							
Arsenic	☠		●	●	●	●	●	●				●	●	●	●
Barium	☠		●	●	●	●	●								
Beryllium	☠		●				●	●							
Bismuth	☠		●												
Boron	②		●			●									
Cadmium	☠		●	●	●	●	●	●				●	●	●	●
Calcium	①	●	●+W	●		●			□+W	□+W	⊗				
Chromium	☠		●	●	●	●	●	●					●		●
Cobalt	④		●			●	●						●	●	
Copper	②		●	●		●	●	●	●				●	●	
Gold			●												
Iron	②		●			●	●		●		○				
Lead	☠		●	●	●	●	●	●				●	●	●	●
Magnesium	①	●	●+W	●		●	●		□+W	□+W					
Manganese	②		●			●	●	●	●		○				
Mercury	☠		●	●	●	●	●						●	●	
Molybdenum	④		●			●							●	●	
Nickel	④		●	●		●	●	●					●	●	
Phosphorous	①	●	●	●		●			□	□	⊗				
Potassium	①	●	●	●		●	●		□+W	□+W	⊗				
Selenium	④		●		●	●	●	●					●	●	
Silicon	③		●												
Silver	☠		●	●	●	●	●								
Sodium	⊙	●	●+W	●		●	●		□+W	□+W					
Strontium	④		●												
Sulfur	■	③	●			●									
Thallium	☠	④	●				●	●							
Titanium	④		●				●								
Vanadium	④		●				●								
Zinc	②		●	●		●	●	●	●		○		●	●	