

## ETI Chemical Analysis Fees ( 2022 -2023 )

Note: Prices are subject to change; please contact Huan Luong to verify prices

Nutrient, carbon, and Nitrogen Analysis – TOC, TN, Nutrient Analyzer

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<i>Analysis</i>	ETI <i>Cost/sample</i>	University of Florida <i>Cost/sample</i>	Florida International University <i>Cost/sample</i>	Commercial Lab <i>Cost/sample</i>
TOC	\$4	\$16	\$26	\$45-\$98
Training	\$0	\$100	N/A	N/A
NPOC	\$4	\$16	\$26	\$45-\$98
Training	\$0	\$100	N/A	N/A
TI	\$4	\$16	\$26	N/A
Training	\$0	\$100	N/A	N/A
TC	\$4	\$16	\$26	N/A
Training	\$0	\$100	N/A	N/A

Nutrient, Carbon, and Nitrogen Analysis – TOC, TN, Nutrient Analyzer

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	ETI	University of Florida	Florida International University	Commercial Lab
<u>Analysis</u>	<u>Cost/sample</u>	<u>Cost/sample</u>	<u>Cost/sample</u>	<u>Cost/sample</u>
Nitrate	\$5	\$10	\$23	\$35
Training	\$0	N/A	N/A	N/A
Nitrite	\$5	\$10	\$23	\$35
Training	\$0	N/A	N/A	N/A
NOx	\$8	\$10	\$23	\$35
Training	\$0	N/A	N/A	N/A
TN	\$5	\$16	\$15	\$45
Training	\$0	N/A	N/A	N/A
Ammonia	\$5	\$9	\$23	\$20
Training	\$0	N/A	N/A	N/A

Nutrient, Carbon, and Nitrogen Analysis – TOC, TN, Nutrient Analyzer

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	ETI	University of Florida	Florida International University	Commercial Lab
<u>Analysis</u>	<u>Cost/sample</u>	<u>Cost/sample</u>	<u>Cost/sample</u>	<u>Cost/sample</u>
O-Phosphate	\$5	\$11	\$15	\$25
Training	\$0	N/A	N/A	N/A
Total-P	\$5	\$11	\$15	\$35
Training	\$0	N/A	N/A	N/A

*General Chemical Analysis – Various Instruments*

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	ETI	University of Florida	Florida International University	Commercial Lab
<u>Analysis</u>	<u>Cost</u>	<u>Cost</u>	<u>Cost</u>	<u>Cost</u>
Fluorescence Spect.	\$5/sample	\$10/Hour usage	N/A	N/A
Training	\$0	\$125	N/A	N/A
UV/Vis	\$5/sample	\$10/Hour usage	N/A	N/A
Training	\$0	\$125	N/A	N/A
PH	No Charge	N/A	\$5/sample	N/A
Training	\$0	N/A	N/A	N/A
DO	No Charge	N/A	\$5/sample	N/A
Training	\$0	N/A	N/A	N/A

*General Chemical Analysis – Various Instruments*

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	ETI	University of Florida	Florida International University	Commercial Lab
<u>Analysis</u>	<u>Cost</u>	<u>Cost</u>	<u>Cost</u>	<u>Cost</u>
Conductivity	No Charge	N/A	\$5/sample	N/A
Training	\$0	N/A	N/A	N/A
HPLC	\$10/sample	\$20/Hour usage	N/A	N/A
Training	\$0	\$250	N/A	N/A

**For HPLC, Analysis for many compounds are possible. Need consultation with the lab manager.**

Gas Analysis – GC/TCD

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	ETI	University of Florida	Florida International University	Commercial Lab
<u>Analysis</u>	<u>Cost</u>	<u>Cost</u>	<u>Cost</u>	<u>Cost</u>
Methane	\$8/sample	\$25/hour usage	N/A	N/A
Training	\$0	\$100	N/A	N/A
Carbon dioxide	\$8/sample	\$25/hour usage	N/A	N/A
Training	\$0	\$100	N/A	N/A

**Analyzing for other gases maybe possible. Need consultation with the lab manager.**

Organic Compounds - GC/MS Analysis

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	ETI	University of Florida	Florida International University	Commercial Lab
<u>Analysis</u>	<u>Cost</u>	<u>Cost</u>	<u>Cost</u>	<u>Cost</u>
BTEX	\$10/sample	\$20/hour usage	N/A	\$75
Training	\$0	\$250	N/A	N/A
Gasoline	\$10/sample	\$20/hour usage	N/A	\$100
Training	\$0	\$250	N/A	N/A
SVOCs	\$10/sample	\$20/hour usage	N/A	\$320
Training	\$0	\$250	N/A	N/A
PAH	\$10/sample	\$20/hour usage	N/A	\$170
Training	\$0	\$250	N/A	N/A
PCP	\$10/sample	\$20/hour usage	N/A	\$140
Training	\$0	\$250	N/A	N/A

**Analysis for other compounds can be done, during method development. Need consultation with the lab manager**

Trace Metal Analysis by ICP/MS

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	ETI	University of Florida	Florida International University	Commercial Lab
<u>Analysis</u>	<u>Cost/sample</u>	<u>Cost/sample</u>	<u>Cost/sample</u>	<u>Cost/sample</u>
Aluminum	\$5/sample	N/A	N/A	\$20
Antimony	\$5/sample	N/A	N/A	\$20
Arsenic	\$5/sample	N/A	N/A	\$20
Barium	\$5/sample	N/A	N/A	\$20
Beryllium	\$5/sample	N/A	N/A	\$20
Boron	\$5/sample	N/A	N/A	\$20
Cadmium	\$5/sample	N/A	N/A	\$20
Calcium	\$5/sample	N/A	N/A	\$20
Chromium	\$5/sample	N/A	N/A	\$20
Cobalt	\$5/sample	N/A	N/A	\$20
Copper	\$5/sample	N/A	N/A	\$20
Iron	\$5/sample	N/A	N/A	\$20
Lead	\$5/sample	N/A	N/A	\$20
Magnesium	\$5/sample	N/A	N/A	\$20
Manganese	\$5/sample	N/A	N/A	\$20



Trace Metal Analysis by ICP/MS

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	ETI	University of Florida	Florida International University	Commercial Lab
<u>Analysis</u>	<u>Cost/sample</u>	<u>Cost/sample</u>	<u>Cost/sample</u>	<u>Cost/sample</u>
Mercury	\$5/sample	N/A	N/A	\$20
Molybdenum	\$5/sample	N/A	N/A	\$20
Nickel	\$5/sample	N/A	N/A	\$20
Potassium	\$5/sample	N/A	N/A	\$20
Selenium	\$5/sample	N/A	N/A	\$20
Silver	\$5/sample	N/A	N/A	\$20
Sodium	\$5/sample	N/A	N/A	\$20
Strontium	\$5/sample	N/A	N/A	\$20
Thallium	\$5/sample	N/A	N/A	\$20
Tin	\$5/sample	N/A	N/A	\$20
Titanium	\$5/sample	N/A	N/A	\$20
Vanadium	\$5/sample	N/A	N/A	\$20
Zinc	\$5/sample	N/A	N/A	\$20
Training	\$0	N/A	N/A	N/A

Molecular Analysis – qPCR, Flo Cytometer, nanodrop, and Microscope

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	ETI	University of Florida	Florida International University	Commercial Lab
<u>Analysis</u>	<u>Cost/sample</u>	<u>Cost/sample</u>	<u>Cost/sample</u>	<u>Cost/sample</u>
NanoDrop	No charge	N/A	N/A	N/A
Training	\$0	N/A	N/A	N/A
qPCR	\$10/plate	\$100/plate	N/A	N/A
Training	\$0	N/A	N/A	N/A
Microscope	No charge	N/A	N/A	N/A
Training	\$0	N/A	N/A	N/A
Flow Cytometer	\$5/sample	N/A	N/A	N/A
Training	\$0	N/A	N/A	N/A

## Laboratory Support and Special Instruments

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	ETI	University of Florida	Florida International University	Commercial Lab
<u>Analysis</u>	<u>Cost</u>	<u>Cost</u>	<u>Cost</u>	<u>Cost</u>
SEM	\$10/hour	N/A	N/A	N/A
Training	\$0	N/A	N/A	N/A
Temp. Shaker	No charge	N/A	N/A	N/A
-80 C Freezer	\$15/month, one box	N/A	N/A	N/A
Centrifuges	No Charge	N/A	N/A	N/A
Autoclave	No Charge	N/A	N/A	N/A

We Train you on the instrument, then you run your samples. Similarly, other universities such as UF and FIU do the same. As a result, we included their prices for your comparison. Commercial laboratories do not train people, their technicians run the samples for a fee.

The prices quoted for UF and FIU are collaborator's prices. If you are not working with them at their facilities, they will have to run the samples for you, the prices will be much higher.

These prices quoted above are instrumentation analysis prices. Some samples will need to be concentrated, or extracted. That is your responsibility.

### NOTE:

ETI capability is only a fraction of commercial capability. You can find other analysis prices from commercial price list. We include here price lists from two national labs (OnSite Environmental Inc. and EMSL Analytical, Inc.). These are their 2022 prices and can be used in your proposal.