



UNIVERSITY OF WATERLOO  
**ENVIRONMENTAL**

**ISOTOPE LABORATORY**



<b>Analysis</b>		<b>REGULAR</b>	
		<b>Cost</b>	<b>Size</b>
<b><u>DEUTERIUM</u></b>			
Cr EA-IRMS	water	\$40	30ml
<b><u>TRITIUM</u></b>			
Tritium	direct +/- 6 T.U.	\$50	30ml
Tritium	enriched +/- 0.8 T.U.	\$185	500ml
	Samples with conductivity > 5000 $\mu$ S/cm	\$325	500ml
Tritium	Ultra Low Level +/- 0.1 T.U.	\$500	2000ml
<b><u>OXYGEN</u></b>			
water, CO2 Equilibration		\$30	30ml
Heka -EA-IRMS	High temperature pyrolysis solid samples	\$100	5 mg
Oxygen isotopes from clean AgNO3 or BaSO4		\$88	5 mg
<b><u>NITROGEN</u></b>			
Nitrogen in Nitrate		\$88	5mg of N
<b><u>Elemental Analysis-Isotope Ratio Mass Spectrometry</u></b>			
Carbon-13/Nitrogen-15		\$26	
C-13/N-15, pre-Weighed		\$15	
Sulphur-34		\$40	5 mg
<b><u>Gas Chromatograph-Combustion-Isotope Ratio Mass Spectrometry</u></b>			
2-H on CxHx, per peak IE Methane, Ethane, Butane, BTEX,		\$150	500ppm
13-C on CxHx, per peak IE Methane, Ethane, Butane, BTEX,		\$120	100ppm
<b><u>HALOGEN Isotope Analysis</u></b>			
Cl-37, inorganic		\$250	5mg
Br-81, inorganic		\$320	
Cl, Organic per compound		\$550	10ppb
<b><u>SPECIAL</u></b>			
Strontium		\$275	1 mg
18O, 13C, Carbonate		\$50	5 mg
13C, DIC, DOC		\$50	5 mg C
AMS Carbon-14 & C-13 - 4 month turnaround		\$400	3 mg C
- 2 month turnaround		\$525	3 mg C
- 1 month turnaround		\$735	3 mg C
Pure Gas (CO <sup>2</sup> or N <sup>2</sup> ), breakseals 6 mm OD, 9-12 cm long		\$20	2ml
Miscellaneous Pre-Treatment		\$20	
Ion Exchange, Azeotropic Distillation, Nitrate and/or Sulphate Extraction		\$50	

SHIP TO: uwEILAB C/O Chemistry Stores  
University of Waterloo  
200 University Ave. W.  
Waterloo, ON N2L 3G1  
CANADA

Contact: A. Richard Heemskerk 519 888 4732  
rkhmskrk@uwaterloo.ca  
Department of Earth and Environmental Science  
University of Waterloo