



UNIVERSITY OF WATERLOO
ENVIRONMENTAL

ISOTOPE LABORATORY

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CAD

Analysis	Cost	Size
<u>DEUTERIUM</u>		
H ₂ O-Cr Reduction EA-IRMS	\$40	30ml
<u>TRITIUM</u>		
Tritium direct +/- 6 T.U.	\$50	30ml
Tritium enriched (up to 15x) +/- 0.8 T.U.	\$185	600ml
Samples with conductivity > 5000 μS/cm (require Azeotropic Distillation)	\$325	600ml
Tritium Ultra Low Level (up to 65x) +/- 0.1 T.U.	\$500	2000ml
<u>OXYGEN</u>		
H ₂ O-CO ₂ Equilibration	\$30	30ml
HT-EA-IRMS High temperature pyrolysis solid samples	\$100	5 mg
HT-EA-IRMS Oxygen isotopes from clean AgNO ₃ or BaSO ₄	\$40	5 mg
<u>DISSOLVED SPECIES</u>		
¹⁵ N in Dissolved Nitrate	\$76	5mg of N
¹⁸ O in Dissolved Nitrate	\$95	2mg of O
³⁴ S or ¹⁸ O in Dissolved Sulphate	\$90	1mg of S/O
¹⁵ N + ¹⁸ O in Dissolved Nitrate or ³⁴ S + ¹⁸ O in Dissolved Sulphate	\$135	
<u>Elemental Analysis-Isotope Ratio Mass Spectrometry</u>		
¹³ C + ¹⁵ N	\$26	ask
¹³ C + ¹⁵ N, pre-weighed	\$15	ask
¹³ C + ¹⁵ N, filter paper	\$35	ask
³⁴ S	\$40	5 mg
<u>Gas Chromatograph-Combustion-Isotope Ratio Mass Spectrometry</u>		
² H on C _x H _x , per compound i.e. Methane, Ethane, Butane, BTEX, TCE	\$150	100-500ppm
¹³ C on C _x H _x , per compound i.e. Methane, Ethane, Butane, BTEX, TCE	\$120	50-300ppm
<u>HALOGEN Isotope Analysis</u>		
³⁷ Cl, inorganic	\$250	3mg
⁸¹ Br, inorganic	\$320	3mg
³⁷ Cl, Organic (per compound)	\$550	20-50ppb
<u>SPECIAL</u>		
Strontium	\$275	1 mg
¹⁸ O + ¹³ C, Carbonate	\$50	5 mg
¹³ C, DIC or DOC	\$50	5 mg C
AMS ¹⁴ C + ¹³ C - 4 month turnaround	\$400	3 mg C
- 2 month turnaround	\$525	3 mg C
- 1 month turnaround	\$735	3 mg C
Pure Gas (CO ₂ or N ₂), 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
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CANADA

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