

Table 1. Nitrogen Variable Methods and Costs

Variable	Cost	Method	Source
NO ₂	\$8.50		VT local lab (Meals)
	\$25 ¹	Ion Chromatography	Oregon State U.
	\$15	Auto Analyzer: Diazotization	
	\$10	Ion Chromatography	Barnstable County, MA
	\$12	Ion Chromatography	Upper Guadalupe R.A.
	\$18 ²	Pre-filtered sample	Heidelberg WQL
	\$24 ²	Sample requiring filtering	
	\$60 ^{3,4}	Ion Chromatography	Huffman Laboratories
NO ₃	\$8.50		VT local lab (Meals)
	\$25 ¹	Ion Chromatography	Oregon State U.
	\$10	Ion Chromatography	Barnstable County, MA
	\$12	Ion Chromatography	Upper Guadalupe R.A.
	\$6.65		UC-Davis
	\$18 ²	Pre-filtered sample	Heidelberg WQL
	\$24 ²	Sample requiring filtering	
	\$60 ^{3,4}	Ion Chromatography	Huffman Laboratories
NO ₂ + NO ₃	\$20		VT DEC lab
	\$11	Cadmium Reduction	Oregon State U.
NH ₃	\$20		VT DEC lab
	\$11	Phenate	Oregon State U.
	\$10	EPA Method 350.1	Barnstable County, MA
	\$30	EPA Method 350.2	Upper Guadalupe R.A.
	\$6.65		UC-Davis
	\$18 ²	Pre-filtered sample	Heidelberg WQL
	\$24 ²	Sample requiring filtering	
	\$35 ³		Huffman Laboratories
NO ₃ + NH ₄	\$10.10		UC-Davis
TKN	\$32		VT DEC lab
	\$22.50		VT local lab (Meals)
	\$18.50	EPA Method 351.2	Barnstable County, MA
	\$50	Std. Methods 4500-NB	Upper Guadalupe R.A.
	\$13.85		UC-Davis
	\$12 ²		Heidelberg WQL
	\$35		Huffman Laboratories
	\$20		VT DEC lab
Total N	\$27	Persulfate Digestion	Oregon State U.
	\$21	EPA Method 365.4	Barnstable County, MA
	\$15	Std. Methods 4500-PE (modified)	Upper Guadalupe R.A.
	\$8.80		UC-Davis
	\$12 ²		Heidelberg WQL
	\$50 ³	Total P	Huffman Laboratories

¹\$25 for first anion (nitrite, nitrate, phosphate) and \$5 for each additional ion in sample.

²Nutrient and sediment package includes all of these and filtering for \$50.

³Sample filtering costs \$20.

⁴For ion chromatography (IC) first anion costs \$60 and additional anions cost \$20 each.

Table 2. Phosphorus Variable Methods and Costs

Variable	Cost	Method	Source
Soluble Reactive P	\$20		VT DEC lab
	\$13		VT local lab (Meals)
	\$15	Dissolved Reactive P Std. Methods 4500-PE (modified)	Upper Guadalupe R.A.
	\$18 ²	Dissolved Reactive P: Pre-filtered sample	Heidelberg WQL
	\$24 ²	Dissolved Reactive P: Sample requiring filtering	
PO ₄	\$25 ¹	Ion Chromatography	Oregon State U.
	\$16	Ortho-PO ₄ by ascorbic acid	
	\$15	Total Reactive Ortho Std. Methods 4500 PE (modified)	Upper Guadalupe R.A.
	\$6.65	PO ₄ -P (soluble P)	UC-Davis
	\$6.65	Soluble P by ICP	UC-Davis
	\$60 ^{3,4}	Ion Chromatography	Huffman Laboratories
	\$25 ³	Ortho-PO ₄	
Total P	\$20		VT DEC lab
	\$9		VT local lab (Meals)
	\$17	Persulfate, H ₂ SO ₄ digestion	Oregon State U.
	\$21	EPA Method 365.4	Barnstable County, MA
	\$15	Std. Methods 4500-PE (modified)	Upper Guadalupe R.A.
	\$8.80		UC-Davis
	\$12 ²		Heidelberg WQL
	\$50 ³	Total P	Huffman Laboratories

¹\$25 for first anion (nitrite, nitrate, phosphate) and \$5 for each additional ion in sample.
²Nutrient and sediment package includes all of these and filtering for \$50.
³Sample filtering costs \$20.
⁴For ion chromatography (IC) first anion costs \$60 and additional anions cost \$20 each.

Table 3. Solids Variable Methods and Costs

Variable	Cost	Method	Source
Turbidity	\$2	EPA Method 180.1	Barnstable County, MA
	\$6	Std. Methods 2130 B	Upper Guadalupe R.A.
	\$6.65		UC-Davis
	\$20		Huffman Laboratories
Total Suspended Solids	\$16	Total nonfilterable residue	Oregon State U.
	\$10	EPA Method 160.2	Barnstable County, MA
	\$12	Std. Methods 2540 D	Upper Guadalupe R.A.
	\$8.80		UC-Davis
	\$8 ¹	Suspended Sediment	Heidelberg WQL
	\$30		Huffman Laboratories
Total Solids	\$10	EPA Method 160.3	Barnstable County, MA
	\$10	Std. Methods 2540 B	Upper Guadalupe R.A.
	\$8.80		UC-Davis
	\$25		Huffman Laboratories

¹Nutrient and sediment package includes all of these and filtering for \$50.