

COST SAVINGS COMPARISON WITH THE DMA-80 DIRECT MERCURY ANALYZER

productivity tools



The majority of environmental laboratories are currently using traditional techniques like Cold Vapor Atomic Absorption to analyze samples for mercury content. However, with the cost of reagents and their disposal continually rising it is important for laboratories to find more cost effective ways to do mercury analysis.

With this in mind Milestone has created a cost comparison of 250 soil samples to show the benefits of using our DMA-80 Direct Mercury Analyzer. One batch was analyzed with EPA Method 7471 B - Mercury in Solid or Semi-Solid Waste (Manual Cold Vapor Technique) while a second batch was analyzed by Milestone's DMA-80 Direct Mercury Analyzer.

	DMA-80 Direct Mercury Analyzer	(CVAA) Cold Vapor Atomic Absorption
Calibration During Analysis*	\$63.00 DORM 3	\$62.37 EPA METHOD 7471B
Unknown Sample Analysis*	\$583.33 Based on total prep and analysis of 7 min/sample	\$972.50 Based on total prep and analysis of 12 min/sample (EPA 3050B)
Labor Cost Batch of 250 Unknowns*	\$646.33	\$1,034.87
Reagent Cost Per Sample Reagent prices obtained from VWR Catalog 2006-2008	\$0.37	\$7.05
Reagent Cost of 250 Unknowns	\$91.69	\$1,761.66
Total Cost	\$738.02	\$2,796.53
Total Analysis Time For Batch of 250 Unknowns	32h 20min	51h 45min

*Labor Cost @ \$20/hr

THE DMA-80 OFFERS A 74% COST SAVINGS AND OVER 19 HOURS OF LABOR SAVINGS COMPARED TO CVAA.