

Environmental Services Laboratory

350 Hills Street, Suite 107, Richland, WA 99354
(509) 377-8058 FAX (509) 377-8464



ANALYSES AND PRICE LIST, DECEMBER 2017

Energy Northwest Environmental Services laboratory has provided a wide range of environmental monitoring and analytical services to individual, municipal, commercial and utility customers since 1992. The team provides the highest quality chemical analysis, ecological monitoring assessment, and environmental & radiochemical analysis.

Energy Northwest's Environmental Services team is qualified and experienced; clients routinely call on us to help solve the most difficult analytical problems as well as handle routine needs.

The laboratory maintains accreditation for wastewater, drinking water, radiochemical analyses, and licensure as a clinical laboratory for drug screening.

Sample Turn Around

Standard turn-around times for analytical results are normally from 10 to 15 working days. Completion times for samples vary according to the number and nature of the tests required. Priority turn-around times can be provided for most tests. Energy Northwest Environmental Services Laboratory does not guarantee a set turn-around time to anyone except those who are paying additional rush fees. Samples to be analyzed for more than one contaminant will have the turn-around time associated with the longest analysis. It is not our policy to write partial reports. Contact the laboratory for priority availability and pricing.

Rush Charges

Energy Northwest Environmental Services Laboratory must be notified of and approve all rush order requests prior to receiving samples. Without prior approval, we cannot guarantee turn-around times. Although Energy Northwest Environmental Services Laboratory meets most rush requests, should a guaranteed time be missed, there will be no rush fees charged. Please call for availability and pricing before shipping rush samples. Rush projects are reported by 5 pm on the day requested and will be billed at the following rates:

10-15 Days	Listed Price
6-9 Days	Add 25%
5 Day	Add 35%
4 Day	Add 50%
3 Day	Add 60%
2 Day*	Add 75%
Next Day*	Add 100%
Same Day*	Add 200%

*\$100 minimum fee for rush analysis of 2-days or less.

Administrative Fee

New customers may be subject to a one time administrative fee of \$20.00. Additional fees may be applicable for non-routine sample preparations. Level III or IV reports are available at an additional charge.



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Environmental & Analytical Services

Drinking Water Analyses

BACTERIOLOGICAL

Parameter	Analytical Method	Price per sample
Coliform (Presence/Absence)	MMO-MUG	\$23.00
Coliform, Fecal	SM 9221 B, C, E1	\$41.00
Coliform, Total	SM 9221 B, C, E1	\$46.00

DISINFECTION BY-PRODUCTS

Parameter	Analytical Method	Price per sample
Haloacetic Acids (HAA5)	SM 6251B, EPA 552.2	\$173.00
Organic Carbon, Total	SM 5310B	\$46.00
Total Trihalomethanes (TTHM)	EPA 524.2, 524.3	\$127.00
TTHM & HAA5	EPA 524.3 & SM 6251B EPA 524.2 & EPA552.2	\$230.00

PRIVATE HOUSEHOLD TESTING PACKAGES

Parameter	Analytical Method	Price per sample
Arsenic	EPA 200.8	\$35.00
Arsenic & Coliform (Presence/Absence)	EPA 200.8/MMO-MUG	\$58.00
Coliform (Presence/Absence), Nitrates, Arsenic	Various	\$87.00
Coliform (Presence/Absence) & Nitrates	Various	\$52.00
Lead & Copper, Coliform (Presence/Absence)	EPA 200.8/MMO-MUG	\$72.00
Lead & Copper	EPA 200.8	\$49.00

INORGANIC CONTAMINANTS

Parameter	Analytical Method	Price per sample
Anions: Single Anion	EPA 300.0	\$23.00
Each Additional Anion: (Bromide, Chloride, Fluoride, Nitrate, Nitrite, Sulfate)		\$6.00
Alkalinity	SM 2320B/EPA 310.1	\$23.00
Ammonia	SM 4500 NH3	\$23.00
Asbestos	EPA 100.2	\$230.00
Chlorine, Total Residual	SM 4500CI-G	\$15.00
Color	SM 2120B	\$12.00
Conductivity	SM 2510A/EPA 120.1	\$12.00
Cyanide, Total	SM4500CN- E	\$46.00
Dissolved Oxygen	SM4500O	\$12.00
Hardness	SM 2340B/EPA 200.8	\$48.00
Hexavalent Chromium	EPA 218.6	\$106.00
Hydrogen Sulfide	SM 4500-S ²⁻ F	\$23.00
Mercury: CVAA	EPA 245.7	\$35.00



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Mercury, Low Level	EPA 1631E	\$92.00
Metals/Cations: Single Metal/Cation	EPA 200.8/EPA 200.7	\$35.00
Each Additional Metal or Cation: (Al, Sb, As, Ba, Be, B, Cd, Ca, Cs, Cr, Co, Cu, Au, Fe, Pb, Li, Mg, Mn, Hg, Mo, Ni, P, Pt, K, Se, Si, Ag, Na, S, Sr, Tl, Sn, Ti, U, V, Y, Zn, Zr)		\$14.00
pH	SM 4500H/EPA 150.1	\$12.00
Total Dissolved Solids	SM 2540C/EPA 160.1	\$23.00
Turbidity	SM 2130B/EPA 180.1	\$17.00
Volatile Suspended Solids	SM 2540E	\$40.00
Drinking Water Packages		
Lead & Copper	EPA 200.8	\$49.00
Nitrate/Nitrite (Nitrates)	EPA 300.0	\$29.00
Washington Complete IOC	Various	\$345.00

ORGANIC COMPOUNDS

Parameter	Analytical Method	Price per sample
Semivolatile Organics- WA List	EPA 525.2/EPA 505	\$260.00
EDB/DBCP	EPA 504.1	\$115.00
Chlorinated Pesticides/PCB's	EPA 505	\$175.00
Herbicides Regulated & Unregulated	EPA 515.4	\$175.00
Carbamates Regulated & Unregulated	EPA 531	\$184.00
Volatile Organics	EPA 524.2	\$184.00

Waste Water Analyses

BACTERIOLOGICAL

Parameter	Analytical Method	Price per sample
Biological Oxygen Demand	SM 5210B	\$58.00
Chemical Oxygen Demand	EPA 410.4	\$40.00
Coliform (Presence/Absence)	MMO-MUG	\$23.00

INORGANIC CONTAMINANTS

Parameter	Analytical Method	Price per sample
Anions: Single Anion	EPA 300.0	\$23.00
Each Additional Anion: (Bromide, Chloride, Fluoride, Nitrate, Nitrite, Ortho-Phosphate, Total-Phosphate, Sulfate)		\$6.00
Alkalinity, Total	SM 2320B	\$23.00
Each Additional Carbonate, Bicarbonate, Hydroxide		\$4.00
Ammonia	SM 4500NH3	\$23.00



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Parameter	Analytical Method	Price per sample
Asbestos	EPA 100.1	\$260.00
Chromium, Hexavalent	SM 3500Cr	\$69.00
Conductivity	SM 2510B	\$12.00
Cyanide, Total	EPA 335.4	\$46.00
Dissolved Oxygen	SM5210B	\$18.00
Fats, Oil, & Grease (HEM), Total	EPA 1664	\$69.00
Hardness	EPA 130.2/SM 2340B	\$48.00
Hydrogen Sulfide	SM 4500 S	\$23.00
Mercury: CVAA	EPA 245.7/SM 7471A	\$35.00
Mercury, Low Level	EPA 1631E	\$92.00
Metals/Cations: Single Metal/Cation	EPA 200.8/EPA 200.7	\$35.00
Each Additional Metal or Cation: (Al, Sb, As, Ba, Be, B, Cd, Ca, Cs, Cr, Co, Cu, Au, Fe, Pb, Li, Mg, Mn, Hg, Mo, Ni, P, Pt, K, Se, Si, Ag, Na, S, Sr, Tl, Sn, Ti, U, V, Y, Zn, Zr)		\$14.00
Priority Pollutant Metals: (Sb, As, Be, Cd, Cr, Cu, Pb, Hg, Ni, Se, Ag, Tl, Zn)	EPA 200.8/6020	\$200.00
Nitrate/Nitrites (Nitrates)	EPA 300.0	\$29.00
Nitrogen, Total (NO ₂ + NO ₃ + TKN)	Various	\$64.00
Nitrogen, Total Kjeldahl	SM 4500NH3/SM 4500NB	\$41.00
NWTPH-Dx	NWTPH-Dx	\$104.00
NWTPH-Gx	NWTPH-Gx	\$92.00
Organic Carbon, Total	SM 5310B/SM 5310C	\$46.00
Organic Halogens, Total (TOX)	EPA 9023	\$115.00
pH	SM 4500H	\$12.00
Phosphorus, Orthophosphate	SM 4500PE	\$23.00
Phosphorus, Total	SM 4500PE	\$35.00
Reactive Sulfides (solids/liquids)	SW 846 CH7	\$46.00
Total Dissolved Solids	SM 2540C	\$23.00
Total Suspended Solids	SM 2540D	\$18.00
Turbidity	SM 2130B	\$17.00
Volatile Suspended Solids	SM 2540E	\$40.00

ORGANIC COMPOUNDS

Parameter	Analytical Method	Price per sample
Carbamate Pesticides	EPA 8318	\$184.00
EDB	EPA 8011	\$115.00
Organochlorine Pesticides	EPA 8081A/EPA 8270D	\$202.00
Organophosphorus Pesticides	EPA 8141A/EPA 8270D	\$184.00
PCB's	EPA 8082	\$144.00
Phenols	EPA 8270D	\$184.00
Semivolatile Organics	EPA 8270D	\$386.00
Volatile Organics	EPA 8260C	\$184.00
BTEX, PERC (Tetrachloroethene) & Benzene	EPA 8260C	\$184.00



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Soil Analyses

Many of the Waste Water parameters are also available for soil. Please call to inquire about these capabilities

Hazardous Waste Analyses

Parameter	Analytical Method	Price per sample
TCLP		
Extraction	EPA 1311	\$86.00
Single Metal/Cation	EPA 6020/ EPA 1311	\$100.00
RCRA 8 Metals (Ag, As, Ba, Cd, Cr, Hg, Pb, Se)	EPA 6020/EPA 1311	\$195.50
Volatiles	EPA 8260C/EPA 1311	\$260.00
Semivolatiles	EPA 8270D/EPA 1311	\$345.00
Benzene	EPA 8260C	\$213.00
Cresol	EPA 8270D	\$282.00
BTU (Heat of Combustion)	ASTM D240-92	\$92.00
Pesticides	EPA 8081A/EPA 1311	\$236.00
Herbicides	EPA 8151A/EPA 1311	\$236.00
Full List *	Various	\$1150.00

*Includes RCRA 8 Metals, Volatiles, Semivolatiles, Pesticides, and Herbicides.

Lubricant and Oil Analyses

Parameter	Analytical Method	Price per sample
Crackle	SALI	\$3.00
Direct Reading Ferrography	SALI	\$48.00
Flash Point (Pensky Martens)	ASTM D-93	\$45.00
Membrane Patch Colorimetry	SALI	\$75.00
Oxidation/Condition by FTIR	SALI	\$84.00
Particle Count	SALI	\$30.00
Remaining Useful Life (RULER)	ASTM D-6971	\$91.00
Total Acid or Base Number	Titra-Lube	\$54.00
Viscosity, Brookfield	ASTM D-445	\$80.00
Viscosity, Kinematic	ASTM D-445	\$50.00
Water by Karl Fisher	ASTM E-1064	\$74.00
Wear Metals (21) by ICP-OED	SALI	\$176.00



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Material Quality Assurances

Parameter	Analytical Method	Price per sample
Anions (6) by Ion Chromatography	EPA 9056	\$100.00
Complete Analysis with QC	Various	\$700.00
Embrittling Metals (11) by ICP-MS	SW 846 6020	\$250.00
Polymer Composition by FTIR	SALI	\$220.00
Preparation by Oxygen Bomb or Leach	SALI	\$50.00
Low Melting Point Metals	SW 846 6020	\$200.00

Cooling System Analyses

Parameter	Analytical Method	Price per sample
Acid Producers	SALI	\$45.00
Additives	Various	Call
Aerobic Plate Counts	SALI	\$22.00
Anaerobic Bacteria	SALI	\$45.00
ATP	SALI	\$25.00
Corrosion Coupons	SALI	Call
Metal Oxidizing Bacteria Presence/Absence	SALI	\$45.00
Nitrate Reducing Bacteria	SALI	\$30.00
Slime Producers (Pseudomonas)	SALI	\$75.00
Sulfate Reducing Bacteria	SALI	\$45.00

Radiological Analyses

Parameter	Analytical Method	Price per sample
Gamma Isotopic Analysis	SM 7120B	\$105.00
Gross Alpha	SM 7110B/EPA 900.0	\$95.00
Gross Beta	SM 7110B/EPA 900.0	\$95.00
Gross Alpha/Beta	SM 7110B/EPA 900.0	\$110.00
I-131	SM 7500I	\$125.00
Radium-228	EPA 904.0	\$95.00
Tritium	SM 7500 ³ H B	\$90.00
Uranium, Natural	EPA 200.8	\$35.00
Radium-226	EPA 903.1	\$140.00



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Additional Information

Analytical Methods

ASTM: American Society for Testing and Materials *ASTM Standards*
EPA: Environmental Protection Agency *Methods and Guidance for Analysis of Water*
NWTPH: Washington State Department of Ecology methods
SALI: Energy Northwest *Supplemental Analytical Laboratory Instructions*
SM: *Standard Methods for the Examination of Water and Wastewater*
SW 846: Environmental Protection Agency *Test Methods for Evaluating Solid Waste Physical/Chemical Methods*

The methods listed are those most commonly used, selected to conform to regulatory requirements and accepted scientific practices. An individual sample may contain materials interfering with a specific method listed above and preventing determination of the tested parameter. In these cases, with approval of our customers our analysts can usually provide accurate results using an alternate method. Any alternate methods used will be listed on the sample report.

Subcontracted Analyses

The Energy Northwest Environmental Services Laboratory offers sample tracking, shipping, results reporting and invoicing for several analyses that are not cost-effective to perform in our facility. Only cooperating laboratories with appropriate accreditations are used, and they have been selected based on both price and quality of service. In periods of unusually high sample loads or instrumentation difficulties, our cooperating laboratories also may perform some analyses we usually provide.

Additional Capabilities

Along with the listed chemical tests, we offer other specialized services. Environmental sampling, identification of unknowns, analysis of non-standard chemicals or matrices, thermal testing, individual agricultural chemicals and analytical method development are some of the available services. Call to request a quote for any of your requirements not included in this price list.

Note on our commitment to the environment

Energy Northwest is committed to protecting the environment for current and future generations. As part of that commitment, we have developed, implemented, and maintain a comprehensive Environmental Management System (EMS). Our EMS was designed to meet the rigorous requirements of the globally recognized International Organization for Standardization (ISO) 14001 standard with additional emphasis on compliance, pollution prevention, and communication.



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