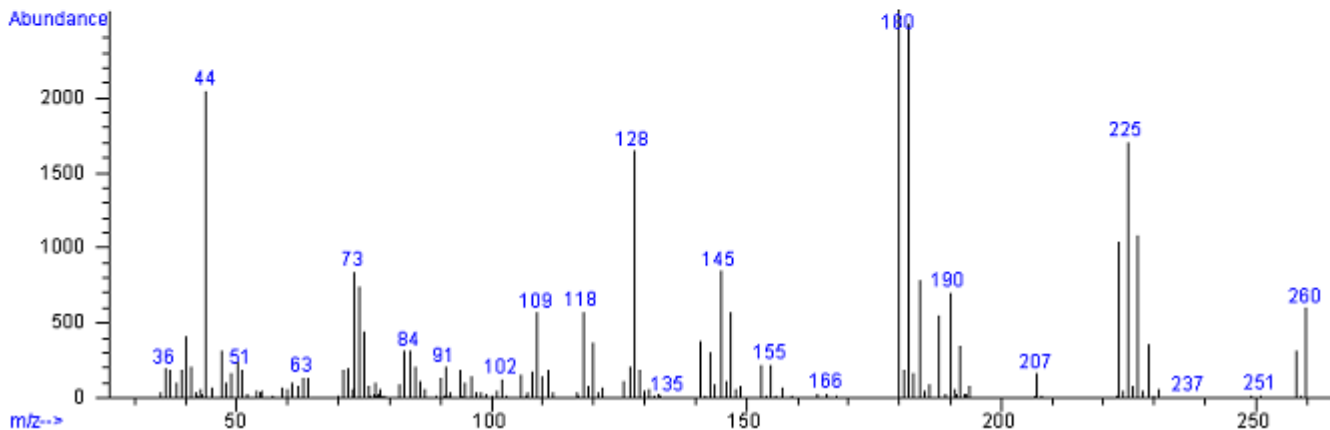
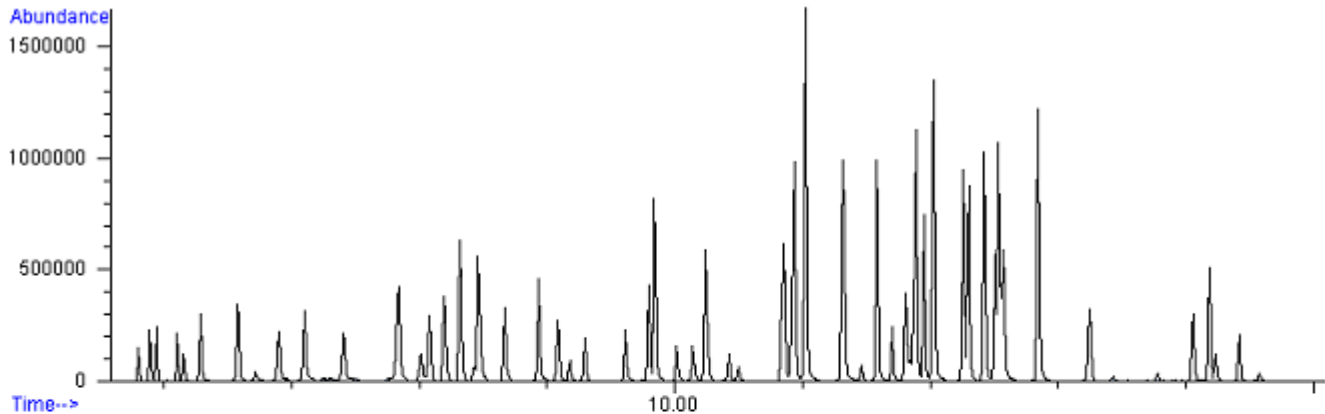


# UMPQUA Research Company

## Analytical Services

### FEE SCHEDULE 2018



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# UMPQUA Research Company

## LABORATORY SERVICES

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*"Accurate results, on time, every time"*

As the analytical laboratory division of UMPQUA Research Company (URC), we have extensive capabilities in the areas of chemical and microbiological analysis, plus capabilities for specialized or “unusual” analytical requests. Founded in 1973, our locally owned, analytical laboratory is certified in Oregon for the determination of regulated inorganic, organic, and microbial drinking water contaminants, with full capabilities for environmental analyses as well. URC consists of a group of highly trained professionals experienced in chemical and microbial analysis, environmental studies, and engineering research and development. The staff includes chemical, electrical and mechanical engineers, chemists and biological scientists. Our laboratory personnel are active participants in the Oregon Environmental Laboratory Association (OELA). We offer these services to the community at large throughout the Pacific Northwest.

**We look forward to serving your Drinking Water and Environmental Analysis needs.**

- Our activities are conducted under the auspices of a nationally recognized accreditation body.
- We routinely provide reports in many different formats including specialized QC reports, electronic data transfer, e-mail, faxing, and other customized formats on request.
- The laboratory utilizes a commercial Laboratory Information Management System (LIMS) for sample tracking, record keeping, and data management, which enables us to provide fast, accurate results.

Our analytical lab originated to provide critical support for our parent research company, which specializes in the development of novel forms of analytical instrumentation and new technologies for air and water purification, solid waste treatment, disinfection, and sterilization. Funding for our research and development is primarily from NASA and major aerospace firms, in addition to the National Institutes of Health, the National Science Foundation, and the Departments of Energy and Defense. We continually strive for the highest levels of quality and client satisfaction. Though we have a complete complement of analytical instrumentation, we realize that our primary strength is in our people.

- Every Space Shuttle that ever flew used our technology for on-board disinfection of drinking water.
- Before every space walk American astronauts use our technology to prepare their portable life support systems.
- We are the designers of the primary water purification system for the International Space Station.

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# Individual Analyte Pricing

## Contact Lab Prior to Sampling for Specific Instructions

Acidity (in Volatile Solvents) .....	\$42.00	Molybdenum (Mo)* .....	\$32.00
Alkalinity (as CaCO <sub>3</sub> ) .....	\$34.00	Nickel (Ni)* .....	\$32.00
Aluminum (Al)* .....	\$32.00	Nitrogen, Ammonia (NH <sub>3</sub> -N) .....	\$40.00
Antimony (Sb)* .....	\$32.00	Nitrogen, Nitrate (NO <sub>3</sub> <sup>-</sup> -N) .....	\$45.00
Arsenic (As)* .....	\$32.00	Nitrogen, Nitrite (NO <sub>2</sub> <sup>-</sup> -N) .....	\$45.00
Asbestos (in Water) .....	\$440.00	Nitrogen, Nitrate+Nitrite .....	\$60.00
Asbestos (in Solid) .....	\$53.00	Nitrogen, Organic .....	\$65.00
Barium (Ba)* .....	\$32.00	Nitrogen, Kjeldahl .....	\$47.25
Beryllium (Be)* .....	\$32.00	Odor .....	\$40.00
Bicarbonate/Carbonate Alk .....	\$40.00	Oil & Grease .....	\$56.00
Biochemical Oxygen Demand (BOD) .....	\$56.00	pH .....	\$20.00
Boron (B) .....	\$32.00	Phenolics (direct) .....	\$40.00
Bromate (BrO <sub>3</sub> <sup>-</sup> ) .....	\$80.00	Phenolics (extracted) .....	\$137.00
Bromide (Br <sup>-</sup> ) .....	\$80.00	Phosphate, Ortho (PO <sub>4</sub> <sup>3-</sup> ) .....	\$45.00
Cadmium (Cd)* .....	\$32.00	Phosphorus, Total .....	\$45.00
Calcium (Ca) .....	\$32.00	Potassium (K) .....	\$32.00
Cation Exchange Capacity .....	\$75.00	Selenium (Se)* .....	\$32.00
Chemical Oxygen Demand (COD) .....	\$43.50	Silica .....	\$40.00
Chloride (Cl <sup>-</sup> ) .....	\$32.00	Silver (Ag)* .....	\$32.00
Chlorate (ClO <sub>3</sub> <sup>-</sup> ) .....	\$80.00	Sodium (Na) .....	\$32.00
Chlorite (ClO <sub>2</sub> <sup>-</sup> ) .....	\$80.00	Solids, Fixed (FS) .....	\$36.00
Chlorine, Residual .....	\$45.00	Solids, Fixed Dissolved (FDS) .....	\$40.00
Chromium (Cr)* .....	\$32.00	Solids, Settleable (SS) .....	\$20.00
Chromium (Hexavalent) .....	\$120.00	Solids, Total (TS) .....	\$29.00
Cobalt (Co)* .....	\$32.00	Solids, Total Dissolved (TDS) .....	\$30.50
Color (Color Units) .....	\$20.00	Solids, Total Suspended (TSS) .....	\$30.50
Copper* .....	\$32.00	Solids, Volatile (VS) .....	\$36.00
Cyanide .....	\$70.00	Solids, Volatile Suspended (VSS) .....	\$40.00
Dioxin (2,3,7,8-TCDD) .....	\$960.00	Specific Conductance .....	\$20.00
Dissolved Organic Carbon .....	\$63.00	Specific Gravity (Density) .....	\$50.00
Dissolved Oxygen .....	\$19.00	Sulfate (SO <sub>4</sub> <sup>2-</sup> ) .....	\$32.00
Flash Point .....	\$105.00	Tannin-Lignin .....	\$45.00
Fluoride (F <sup>-</sup> ) .....	\$32.00	Thallium (Tl)* .....	\$32.00
Formaldehyde .....	\$105.00	Titanium (Ti) .....	\$32.00
Hardness .....	\$30.00	Total Organic Carbon (TOC) .....	\$50.00
Hardness, Calculated (includes Ca and Mg) .....	\$72.00	Turbidity .....	\$20.00
Iodide (I <sup>-</sup> ) .....	\$50.00	Vanadium (V)* .....	\$32.00
Iodine (I <sub>2</sub> ) .....	\$50.00	Zinc (Zn)* .....	\$32.00
Iron (Fe)* .....	\$32.00		
Lead (Pb)* .....	\$32.00		
Magnesium (Mg) .....	\$32.00		
Manganese (Mn)* .....	\$32.00		
MBAS .....	\$185.00		
Mercury (Hg) .....	\$56.00		

\* Special pricing for analysis of multiple metals in one sample.  
 3-11 Metals: \$22.40/metal  
 12 or more Metals: \$250.00 flat rate

Contact lab prior to sampling for containers and instructions

## DISCOUNT DRINKING WATER PACKAGES

**Coliform Bacterial Analysis –Total Coliforms/*E. coli***

Weekly Samples .....	\$22
Monthly Samples .....	\$30
Quarterly Samples .....	\$36
Regular Samples.....	\$40

**New Well Package – Nitrate, Arsenic, Total Coliforms/*E.coli*, pH, and Conductivity .....** \$136

**Real Estate Package – Nitrate, Arsenic, and Total Coliforms/*E.coli* (Call before sampling) .....** \$110

**Lead & Copper .....** \$45

**Diagnostic Package: pH, Specific Conductance, Hardness, Iron, Turbidity, and Total Suspended Solids (TSS) .....** \$115

**General Package: Nitrate, Chloride, Lead, Arsenic, Iron, Hardness, and Total Coliforms/*E. coli*.....** \$200

**Corrosion Package: Alkalinity, Specific Conductance, Total Dissolved Solids (TDS), pH, Calcium, Lead, Copper, Zinc, and Corrosivity (Langelier Index).....** \$210

**Complete Package: Diagnostic and General Packages plus Cadmium, Chromium, Copper, Nickel, Sodium, Thallium, Zinc, and Fluoride .....** \$325

**Regulated Inorganic Contaminants (IOC): Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cyanide, Fluoride, Lead, Mercury, Nickel, Nitrate, Nitrite, pH, Selenium, Sodium, Specific Conductance, Sulfate, and Thallium .....** \$369

**Oregon/Washington Primary: Arsenic, Barium, Cadmium, Chromium, Fluoride, Lead, Mercury, Nitrate, Selenium, and Silver.....** \$195

**Oregon & National Secondary: Alkalinity, Aluminum, Calcium, Chloride, Color, Copper, Corrosivity (Langelier Index), Fluoride, Hardness, Iron, Manganese, MBAS, Odor, pH Silver, Specific Conductance, Sulfate, TDS, Total Solids (TS), and Zinc.....** \$425

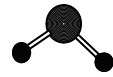
**Complete Phase II and V\* – IOCs, SOCs, and VOCs (Regulated & Unregulated) .....** \$1565

**\*Except Asbestos & Dioxin**

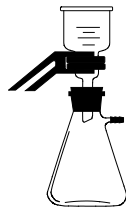
# REGULATED



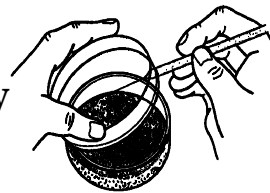
## DRINKING WATER ANALYSIS



Under the authority of the Safe Drinking Water Act, the U.S. Environmental Protection Agency (EPA) mandates the routine analysis of all public water supplies to determine if any potentially hazardous contaminants are present and, if so, in what concentration. UMPQUA Research is accredited by the State of Oregon (ORELAP Approved Laboratory #100031 (Myrtle Creek) and #100052 (Bend)), in accordance with the National Environmental Laboratory Accreditation Program (NELAP) to perform these services.



### Microbiology



<b>Total Coliforms / Fecal Coliforms</b>	<b>Method</b>	<b>Price</b>
Colilert (Total Coliform & <i>E. coli</i> ) P/A .....	SM 9223 B .....	<b>\$40.00</b>
Fermentation Technique (Total & Fecal Coliform) P/A....	SM 9221 A,B,C,E .....	<b>\$50.00</b>
Heterotrophic Plate Count.....	SM 9215 B .....	<b>\$52.50</b>
Detergent & Inhibitory Residue .....	SM 9020 B .....	<b>\$240.00</b>
Distilled Water Suitability .....	SM 9020 B .....	<b>\$285.00</b>

### Disinfection / Disinfection By-Products

Most community water systems control the growth of microorganisms by the addition of chlorine. A byproduct of chlorination is the formation of toxic compounds by the reaction of chlorine with naturally occurring dissolved organic compounds. These are called Disinfection By-Products, the most common of which are Trihalomethanes.

<b>Residual Chlorine</b> .....	<b>\$45</b>
<b>Total Chlorine</b> .....	<b>\$60</b>
<b>Chlorine Dioxide</b> .....	<b>\$60</b>
<b>Chloramines</b> .....	<b>\$75</b>
<b>Trihalomethanes, Total (TTHMs) – EPA 524.2</b>	
Bromoform, Chloroform, Bromodichloromethane, Chlorodibromomethane .....	<b>\$130</b>
<b>Haloacetic Acids – SM 6251B</b> .....	<b>\$200</b>
<b>Anions – EPA 300.1:</b>	
Bromate .....	<b>\$80</b>
Chlorite.....	<b>\$80</b>



## Inorganic Chemicals (IOCs)

Inorganic Chemicals (IOCs) are regulated compounds that can be naturally present in your water source. Some are toxic heavy metals such as Arsenic, Lead, and Mercury; others are non-metallic ions such as Cyanide, Fluoride, or Nitrate. The package below is the complete IOC listing except asbestos. Prices for individual inorganics are summarized on Page 1.

**IOCs - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cyanide, Fluoride, Lead, Mercury, Nickel, Nitrate, Nitrite, pH, Selenium, Sodium, Specific Conductance, Sulfate, and Thallium.....\$369**

## Synthetic Organic Chemicals (SOCs)

Synthetic Organic Chemicals (SOCs) are man-made carbon containing substances such as pesticides, herbicides, and solvents. These are generally not very soluble in water, but may be present at very low levels.

**Synthetic Organic Chemicals..... \$1150**

**Regulated**

2,4-D  
2,4,5-TP (Silvex)  
Bis(2-ethylhexyl)adipate  
Bis(2-ethylhexyl)phthalate  
Alachlor (Lasso)  
Atrazine  
Benzo(a)pyrene  
 $\gamma$ -BHC (Lindane)  
Carbofuran  
Chlordane  
Dalapon

Dibromochloropropane  
Dinoseb  
Diquat  
Endothall  
Endrin  
Ethylene dibromide (EDB)  
Glyphosate  
Heptachlor  
Heptachlor epoxide  
Hexachlorobenzene  
Hexachlorocyclopentadiene  
Methoxychlor

Pentachlorophenol  
Picloram  
PCB's  
Simazine  
Toxaphene  
Oxamyl (Vydate)  
**Unregulated**  
3-Hydroxycarbofuran  
Aldicarb  
Aldicarb sulfoxide  
Aldicarb sulfone  
Aldrin

Butachlor  
Carbaryl  
Dicamba  
Dieldrin  
Methomyl  
Metolachlor  
Metribuzin  
Propachlor

**EPA Method 504.1: Ethylene dibromide (EDB), Dibromochloropropane (DBCP) .....\$125**

**EPA Method 508.1 - Chlorinated Pesticides: Chlordane, Toxaphene, PCBs – Aroclor ID .....\$195**

**EPA Method 515.4 - Chlorinated Organic Acids: 2,4-D; 2,4,5-TP (Silvex); Dalapon; Dicamba; Dinoseb; Pentachlorophenol; Picloram.....\$200**

**EPA Method 525.2 .....\$285**

Alachlor (Lasso)  
Aldrin  
Atrazine  
 $\gamma$ -BHC (Lindane)  
Benzo(a)pyrene

Bis(2-ethylhexyl)adipate  
Bis(2-ethylhexyl)phthalate  
Butachlor  
Dieldrin  
Endrin

Heptachlor  
Heptachlor epoxide  
Hexachlorobenzene  
Hexachlorocyclopentadiene  
Methoxychlor

Metolachlor  
Metribuzin  
Propachlor  
Simazine

**EPA Method 531.1: Carbamate pesticides:** .....\$175

Aldicarb	Carbaryl	Methomyl
Aldicarb sulfone	Carbofuran	Oxamyl (Vydate)
Aldicarb sulfoxide	3-Hydroxycarbofuran	

**EPA Method 547: Glyphosate (Roundup)**.....\$150

**EPA Method 548.1: Endothall**.....\$225

**EPA Method 549.2: Diquat** .....\$185

## Volatile Organic Chemicals (VOCs)

Volatile Organic Chemicals (VOCs) are man-made carbon containing substances such as Benzene, Toluene, and Xylenes that evaporate quickly when exposed to air.

**Volatile Organic Chemicals - (EPA 524.2)**.....\$225

<b><u>Regulated</u></b>	Toluene	2-Chlorotoluene
Benzene	Total Xylenes	4-Chlorotoluene
Carbon tetrachloride	1,2,4-Trichlorobenzene	Dibromochloromethane
Chlorobenzene	1,1,1-Trichloroethane	Dibromomethane
1,2-Dichlorobenzene	1,1,2-Trichloroethane	1,3-Dichlorobenzene
1,4-Dichlorobenzene	Trichloroethylene	1,1-Dichloroethane
1,2-Dichloroethane	Vinyl chloride	1,3-Dichloropropane
1,1-Dichloroethylene	<b><u>Unregulated</u></b>	2,2-Dichloropropane
<i>cis</i> -1,2-Dichloroethylene	Bromobenzene	1,1-Dichloropropene
<i>trans</i> -1,2-Dichloroethylene	Bromoform	<i>cis</i> -1,3-Dichloropropene
1,2-Dichloropropane	Bromodichloromethane	<i>trans</i> -1,3-Dichloropropene
Ethylbenzene	Bromomethane	1,1,1,2-Tetrachloroethane
Methylene chloride	Chloroethane	1,1,2,2-Tetrachloroethane
Styrene	Chloroform	1,2,3-Trichloropropane
Tetrachloroethylene	Chloromethane	

## Radiochemicals

Radiochemicals are natural or man-made substances that are *radioactive*. These materials are unstable and emit *alpha*, *beta*, and/or *gamma* radiation as they decompose.

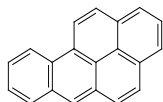
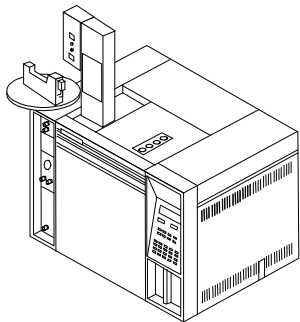
**Gross Alpha Radiation** ..... EPA 900.0 ..... \$110

**Gross Alpha & Gross Beta** ..... EPA 900.0 ..... \$155

**Radium 226 & 228**..... E903.0 & RA-05/Calculation..... \$315

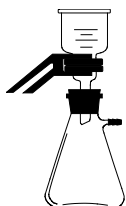
**Uranium** ..... EPA 200.8 ..... \$56



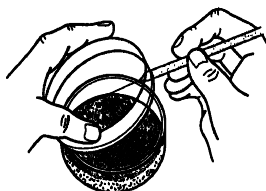


## ENVIRONMENTAL ANALYSIS

UMPQUA Research Company – Analytical Services Laboratory, is an active participant in the Oregon Environmental Laboratory Association (OELA). We perform analyses in conjunction with the Resources Conservation and Recovery Act (RCRA) and CERCLA (Superfund) legislation, as well as requirements set forth by the National Pollution Discharge Elimination System (NPDES) and Oregon’s DEQ. Other methods and analyses are also available upon request.



### Coliforms



Total Coliforms / Fecal Coliforms	Method	Price
Colilert (Total Coliform & <i>E. coli</i> ) MPN.....	SM 9223B Quantitray .....	\$44
15 Tube MPN (3 Dilutions) (Total & Fecal).....	SM 9221A,B,C,E .....	\$56
35 Tube MPN (7 Dilutions) for Fecal Sludge.....	SM 9221A,B,C,E .....	\$80
Membrane Filter Method .....	SM 9222A & B .....	\$60
Fecal <i>Enterococci</i> MPN (35 Tube, 7 dil.) .....	SM 9230B .....	Quote



### Environmental SOCs (GCMS)

Semivolatile Organics (EPA 8270/625)..... Quote

Acenaphthene	Butylbenzylphthalate	4,6-Dinitro-2-methylphenol	4-Methylphenol
Acenaphthylene	2-Chloronaphthalene	2,4-Dinitrophenol	Naphthalene
Anthracene	4-Chloro-3-methylphenol	2,4-Dinitrotoluene	Nitrobenzene
Azobenzene	2-Chlorophenol	2,6-Dinitrotoluene	2-Nitrophenol
Benizidine	Chrysene	Di- <i>n</i> -butylphthalate	4-Nitrophenol
Benzoic acid	4-Chlorophenyl-phenyl ether	1,2-Diphenylhydrazine	N-Nitrosodi- <i>n</i> -propylamine
Benzo(a)anthracene	<i>o</i> -Dichlorobenzene	Di- <i>n</i> -octylphthalate	N-Nitrosodiphenylamine
Benzo(b)fluoranthene	<i>m</i> -Dichlorobenzene	Fluoranthene	N-Nitrosodimethylamine
Benzo(k)fluoranthene	<i>p</i> -Dichlorobenzene	Fluorene	Pentachlorophenol
Benzo(g,h,i)perylene	Dibenzo(a,h)anthracene	Hexachloroethane	Phenanthrene
Benzo(a)pyrene	3,3'-Dichlorobenzidine	Hexachlorobutadiene	Phenol
Bis(2-chloroethyl)ether	2,4-Dichlorophenol	Hexachlorocyclopentadiene	Pyrene
Bis(2-chloroethoxy)methane	2,6-Dichlorophenol	Hexachlorobenzene	2,3,4,6-Tetrachlorophenol
Bis(2-chloro-isopropyl)ether	Diethylphthalate	Indeno(1,2,3-cd)pyrene	1,2,4-Trichlorobenzene
Bis(2-ethylhexyl)phthalate	2,4-Dimethylphenol	Isophorone	2,4,5-Trichlorophenol
4-Bromophenyl-phenyl ether	Dimethylphthalate	2-Methylphenol	2,4,6-Trichlorophenol

**Phenols (EPA 8270/625)..... \$225**

Benzoic acid	4,6-Dinitro- <i>o</i> -cresol	Pentachlorophenol
4-Chloro-3-methylphenol	2,4-Dinitrophenol	Phenol
2-Chlorophenol	2-Methylphenol	2,4,5-Trichlorophenol
2,4-Dichlorophenol	4-Methylphenol	2,4,6-Trichlorophenol
2,6-Dichlorophenol	2-Nitrophenol	2,3,4,6-Tetrachlorophenol
2,4-Dimethylphenol	4-Nitrophenol	

**Polynuclear Aromatic Hydrocarbons (PAHs-EPA 8270/625)..... \$225**

Acenaphthene	Benzo(g,h,i)perylene	Indeno(1,2,3-cd)pyrene
Acenaphthylene	Benzo(k)fluoranthene	Naphthalene
Anthracene	Chrysene	Phenanthrene
Benzo(a)anthracene	Dibenzo(a,h)anthracene	Pyrene
Benzo(a)pyrene	Fluoranthene	
Benzo(b)fluoranthene	Fluorene	

**Polychlorinated Biphenyls (PCBs - EPA 8082/608) ..... \$180**

**Polychlorinated Biphenyls (PCBs) - Transformer Oil (EPA 9079) ..... \$96**

**Phthalate Esters (EPA 8270/625) ..... \$225**

Benzybutylphthalate	Di- <i>n</i> -butylphthalate	Dimethylphthalate
Bis(2-ethylhexyl)phthalate	Diethylphthalate	Di- <i>n</i> -octylphthalate

**Organochlorine Pesticides (EPA 8081) ..... \$215**

Aldrin	Chlordane ( $\alpha$ and $\gamma$ )	Endosulfan I	Heptachlor
$\alpha$ -BHC	4,4'-DDD	Endosulfan II	Endrin ketone
$\beta$ -BHC	4,4'-DDE	Endosulfan sulfate	Heptachlor epoxide
$\delta$ -BHC	4,4'-DDT	Endrin	Methoxychlor
$\gamma$ -BHC (Lindane)	Dieldrin	Endrin aldehyde	Toxaphene

**Organochlorine Pesticides and PCBs Combined (EPA 8081+8082) ..... \$245**

**Organophosphorus Pesticides (EPA 8141) ..... \$285**

Azinphos methyl (Guthion)	Dichlorvos	Naled
Bolstar	Disulfoton	Methyl parathion
Chlorpyrifos	Ethoprop	Phorate
Coumaphos	Fensulfothion	Ronnel
Demeton-O	Fenthion	Stirophos
Demeton-S	Merphos	Tokuthion
Diazinon	Mevinphos	Trichloronate

**Chlorinated Herbicides (EPA 615/8151) ..... \$235**

2,4-D	Dalapon	Pentachlorophenol
2,4,5-T	Dicamba	
2,4,5-TP (Silvex)	Dinoseb	

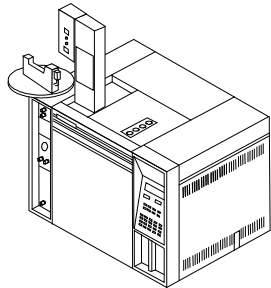
**Single, Non-Listed Pesticide ..... Quote**

**Single Listed Herbicide, Pesticide, or Semi-Volatile ..... \$175**

**Single, Non-Listed Herbicide ..... Quote**

**Extraction of Herbicides from Soils ..... \$90**

**Extraction of Pesticides from Soils ..... \$45**



## Volatile Organics

### **Volatile Organics (EPA 8260/624) ..... \$285**

Acetone	2-Chlorotoluene	1,3-Dichloropropane	Tetrachloroethylene
Acrylonitrile	4-Chlorotoluene	2,2-Dichloropropane	Toluene
Benzene	Dibromochloromethane	1,1-Dichloropropene	1,2,3-Trichlorobenzene
Bromobenzene	1,2-Dibromo-3-chloropropane	<i>cis</i> -1,3-Dichloropropene	1,2,4-Trichlorobenzene
Bromochloromethane	1,2-Dibromoethane	<i>trans</i> -1,3-Dichloropropene	1,1,1-Trichloroethane
Bromodichloromethane	Dibromomethane	Ethylbenzene	1,1,2-Trichloroethane
Bromoform	1,2-Dichlorobenzene	Hexachlorobutadiene	Trichloroethylene
Bromomethane	1,3-Dichlorobenzene	Isopropylbenzene	Trichlorofluoromethane
<i>n</i> -Butylbenzene	1,4-Dichlorobenzene	4-Isopropyltoluene	1,2,3-Trichloropropane
<i>sec</i> -Butylbenzene	1,1-Dichloroethane	Methylene chloride	1,3,5-Trimethylbenzene
<i>tert</i> -Butylbenzene	1,2-Dichloroethane	Methyl ethyl ketone	1,2,4-Trimethylbenzene
Carbon tetrachloride	1,1-Dichloroethylene	Naphthalene	Vinyl chloride
Chlorobenzene	<i>cis</i> -1,2-Dichloroethylene	<i>n</i> -Propylbenzene	<i>m,p</i> -Xylene
Chloroethane	<i>trans</i> -1,2-Dichloroethylene	Styrene	<i>o</i> -Xylene
Chloroform	Dichlorodifluoromethane	1,1,1,2-Tetrachloroethane	Total Xylenes
Chloromethane	1,2-Dichloropropane	1,1,2,2-Tetrachloroethane	

### **Halogenated Volatile Organics (EPA 8260/624) ..... \$245**

Benzyl chloride	Chloroethane	<i>o</i> -Dichlorobenzene	1,1,1,2-Tetrachloroethane
Bis(2-chloroethoxy)methane	Chloroform	<i>p</i> -Dichlorobenzene	1,1,2,2-Tetrachloroethane
Bis(2-chloroisopropyl)ether	1-Chlorohexane	Dichlorodifluoromethane	Tetrachloroethylene
Bromobenzene	2-Chloroethyl vinyl ether	1,1-Dichloroethane	1,1,1-Trichloroethane
Bromodichloromethane	Chloromethane	1,2-Dichloroethane	1,1,2-Trichloroethane
Bromoform	Chloromethyl methyl ether	1,1-Dichloroethylene	Trichloroethylene
Bromomethane	Chlorotoluene	<i>trans</i> -1,2-Dichloroethylene	Trichlorofluoromethane
Carbon tetrachloride	Dibromochloromethane	Dichloromethane	Trichloropropane
Chloroacetaldehyde	Dibromomethane	1,2-Dichloropropane	Vinyl chloride
Chlorobenzene	<i>m</i> -Dichlorobenzene	<i>trans</i> -1,3-Dichloropropylene	

### **BTEX-Water only (EPA 8260): Benzene, Toluene, Ethylbenzene, Xylenes ..... \$120**

## Underground Storage Tank (UST) Fuel Residue

Hydrocarbon Identification .....	OR-DEQ NWTPH-HCID.....	\$75
Quantitation: Gasoline .....	OR-DEQ NWTPH-Gx .....	\$120
Quantitation: Diesel (Water) .....	OR-DEQ NWTPH-Dx .....	\$139
Quantitation: Bunker C, Lube Oils .....	OR-DEQ Ext NWTPH-Dx.....	\$139
Light Aromatics-Soil (BTEX/TPH-G).....	EPA 8021B.....	\$120
Hydrocarbon Identification with Quantitation .....		\$169

## Storm Water Runoff Services

Call our office with your permit information, and we will provide a competitive quote tailored to your specific project needs.

### Miscellaneous Testing

**Bottled Water Analysis Package..... \$3190**

Coliform-MPN	Ortho-Phosphate	Radium 226/228
Total Phenolics	Haloacetic Acids	Uranium
IOC, SOC, VOC	Bromate	Chlorine
Oregon Secondary	Chlorite	Chloramine
Turbidity	Gross Alpha	Chlorine dioxide
Potassium	Gross Beta	

**Distilled Water Metals (Micro Lab Use): Cadmium, Chromium, Copper, Lead, Nickel, Zinc ..... \$130**

**Water Suitability (Micro Lab Use)..... \$285**

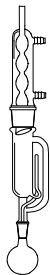
**Sludge Analysis (EPA 3050B) ..... \$379**

Arsenic	Nitrogen (Total Kjeldahl, Ammonia, Nitrate, and Nitrite)	Potassium
Cadmium	Mercury	Selenium
Chromium	Molybdenum	Zinc
Copper	pH	Total Solids
Lead	Total Phosphorus	Volatile Solids (as % TS)
Nickel		

**Toxic Characteristic Leaching Procedure (TCLP) EPA 1311**

Metals & Non-volatiles Extraction.....EPA 1311.....	<b>\$130</b>
Zero Headspace Extraction.....EPA 1311.....	<b>\$170</b>
RCRA Metals Analysis: As, Ba, Cd, Cr, Pb, Hg, Se, Ag.....EPA 200.8.....	<b>\$205</b>
Special sample preparation charge (grinding, pulverizing, etc.) .....	<b>Quote</b>

### Sampling, Preparation, Cleanup & Miscellaneous



Sample Collection Fee: \$0.60/Mile + Time @ \$60/Hr

Acid Digestion (Water) .....	<b>\$20</b>
Acid Digestion (Soil, Sludge, and Solids) .....	<b>\$45</b>
Basic Fusion .....	<b>\$90</b>
Heat of Combustion (Bomb Calorimetry).....	<b>\$120</b>
Fluorosil, Silica Gel, or Alumina Column Cleanup.....	<b>\$20</b>
Extraction of Herbicides from Soil .....	<b>\$90</b>
Extraction of Pesticides from Soil .....	<b>\$45</b>
Composite Fee.....	<b>\$45</b>

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## Inorganic Contaminants

With a few exceptions, inorganic contaminants are detected individually. Custom packages of inorganic analyses are usually required to fit the individual needs of the NPDES permittee, or to fit the history of the contaminated site requiring characterization. The Individual Analyte Price List (page 1) summarizes tests available for individual inorganics. *Please contact the laboratory for price quotations on custom analytical packages to meet your unique requirements.*

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## Rush Analysis Rates

We can provide expedited results for most analyses. Please contact the laboratory with your specific needs, and we will provide a quoted price for the required turn-around-time.

NOTE: Turn-a-round times are working days and begin upon arrival of sample at the laboratory

### CALL LAB PRIOR TO SENDING SAMPLES

#### NORMAL TURN-AROUND-TIME:

**3 days for Coliforms, 5 days for Nitrate**  
**5-10 working days for most individual tests**  
**10-15 working days for SOCs, IOCs, and environmental analyses**

**Quantity Discounts are Available  
for Most Services**

*Contact the Laboratory  
For a Price Quote*

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## Special Lab & Field Consulting and Non-routine Analyses

Direct Expenses.....	COST + 15%
Principal .....	\$175.00/Hr
Professional .....	\$95.00/Hr
Lab Technician.....	\$60.00/Hr
Mileage.....	\$0.60/Mile
Other testing needs not listed .....	Quote

Courier services are available. Call for route and pricing information.

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## Quality Assurance/Quality Control

Our Quality Assurance Officer (QAO), who operates independently and reports directly to top management, ensures that good laboratory practices are integrated into all aspects of operations at URC Analytical Services. Quality Control (QC) is built into our current Laboratory Information Management System (LIMS) and thoroughly documented in each standard operating procedure (SOP) and analytical instrumentation monitoring system. Corrective action is well documented for any deficiency observed and action is taken immediately to eliminate the source of error. QC and analytical procedures are detailed in the laboratory's QA Manual and in the Laboratory SOP Manual. These established protocols exceed those mandated by the EPA for laboratory practices.

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## Instrumentation

- Gas Chromatograph / Mass Spectrometer (GCMS) – 6890GC/5973MSD and 7890GC/5975MSD
- Tekmar Atomx Purge & Trap for GC/MS
- Additional Gas Chromatographs with FID, ECD, and PID
- Agilent 7500C ICP-MS
- Atomic Absorption Spectrophotometer with flame, cold-vapor, and graphite furnace capabilities
- Photodiode Array (PDA) UV/Vis Spectrophotometer
- Total Organic Carbon (TOC) Analyzer
- High Performance Liquid Chromatograph (HPLC) with PDA UV and Fluorescence Detectors
- Ion Chromatograph HPLC System
- A full complement of general analytical laboratory equipment

**SPECIAL NOTES:** We cannot be responsible for holding times that are exceeded for samples delivered on weekends or after 5 p.m. on weekdays without prior notification and approval. Please call the lab if you are unsure about special containers or sampling procedures. Prices and methods are subject to change without notice.

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## In Case of Emergency or After Business Hours Call

### Myrtle Creek

Lisa Leming  
Office Manager  
Office: (541) 863-5201  
Cell: (541) 580-8405

### Bend

Dan Phillips  
Laboratory Manager  
Office: (541) 312-9455

**Municipal Water Suppliers: Please call during normal office hours for a listing of private telephone numbers to include in your security plan.**