

ENVIRONMENTAL SECTION



**Midwest  
Laboratories<sup>®</sup>**

**CATALOG | 2021 EDITION**





**ENVIRONMENTAL**

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# Environmental DRINKING WATER

	Required Sample Size	Turnaround Time	Price	
<b>W3 WATER QUALITY*</b>	(2) 250mL & 125mL sterile	5 - 7 BD	<b>\$70.00</b>	
Total Coliform, Total Hardness, Manganese, E.coli, Conductivity, Sulfate, Sodium, Iron, Chloride, Calcium, Total Dissolved Solids (by calculation), Fluoride, Magnesium, pH, Nitrate Nitrogen				
<b>W3A</b>	(2) 250mL	5 - 7 BD	<b>\$62.00</b>	
Total Hardness, Manganese, Conductivity, Sulfate, Sodium, Iron, Chloride, Calcium, Total Dissolved Solids (by calculation), Fluoride, Magnesium, pH, Nitrate Nitrogen				
<b>W4*</b>	250mL & 125mL sterile	3 - 5 BD	<b>\$35.00</b>	
Nitrate-Nitrite Nitrogen (EPA 353.2), Total Coliform, E. coli,				
<b>W5: FHA LOAN*</b>	(2) 125mL sterile (1) 250mL plastic (1) 1L plastic	5 - 7 BD	<b>\$95.00</b>	
Total Coliform, Nitrate Nitrogen, Lead, Fecal Coliform, Nitrite Nitrogen, E. coli				
<b>EPA 524.2 - VOLATILE ORGANICS (REGULATED &amp; NON-REGULATED)</b>	(3) 40 mL vials	5 - 7 BD	<b>\$125.00</b>	
1,1,1,2-Tetrachloroethane	1,2-Dichloroethane	Bromodichloromethane	Dichlorodifluoromethane	Styrene
1,1,1-Trichloroethane	1,2-Dichloropropane	Bromoform	Ethylbenzene	Total Trihalomethanes
1,1,2,2-Tetrachloroethane	1,3,5-Trimethylbenzene	Bromomethane	Hexachlorobutadiene	tert-Butylbenzene
1,1,2-Trichloroethane	1,3-Dichlorobenzene	Carbon Tetrachloride	Isopropylbenzene	Tetrachloroethene
1,1-Dichloroethane	1,3-Dichloropropane	Chlorobenzene	m,p-Xylenes	Toluene
1,1-Dichloroethene	1,4-Dichlorobenzene	Chloroethane	Methylene Chloride	Total Xylenes
1,1-Dichloropropene	2,2-Dichloropropane	Chloroform	Naphthalene	trans-1,2-Dichloroethene
1,2,3-Trichlorobenzene	2-Chlorotoluene	Chloromethane	n-Butyl Benzene	trans-1,3-Dichloropropene
1,2,3-Trichloropropane	4-Chlorotoluene	cis-1,2-Dichloroethene	n-Propyl Benzene	Trichloroethene
1,2,4-Trichlorobenzene	Benzene	cis-1,3-Dichloropropene	o-Xylene	Trichlorofluoromethane
1,2,4-Trimethylbenzene	Bromobenzene	Dibromochloromethane	p-Isopropyltoluene	Vinyl chloride
1,2-Dichlorobenzene	Bromochloromethane	Dibromomethane	sec-Butylbenzene	
<b>1, 4-DIOXANE</b>	(3) 40 mL vials	5 - 7 BD	<b>\$120.00</b>	

\* Samples must be received at the laboratory within 24 hours of sampling.

† Samples must be received at the laboratory within 48 hours of sampling.

	Required Sample Size	Turnaround Time	Price
<b>REGULATED INORGANIC CHEMICALS (IOC) †</b>	1L	5 - 7 BD	<b>\$190.00</b>

Antimony, Copper, Nitrate Nitrogen, Arsenic, Fluoride, Selenium, Barium, Lead, Sodium, Beryllium, Mercury, Sulfate, Cadmium, Nickel, Thallium, Chromium, Nitrite Nitrogen

### INDIVIDUAL ANALYSIS

Arsenic	500mL	5 - 7 BD	<b>\$38.00</b>
Fluoride	125mL plastic	5 - 7 BD	<b>\$20.00</b>
Heterotrophic Plate Count (HPC)*	125mL sterile	5 - 7 BD	<b>\$20.00</b>
Lead	1L	5 - 7 BD	<b>\$38.00</b>
Lead & Copper	1L	5 - 7 BD	<b>\$50.00</b>
Nitrate Nitrogen †	250mL	5 - 7 BD	<b>\$20.00</b>
Nitrite Nitrogen †	250mL	5 - 7 BD	<b>\$22.50</b>
Trihalomethanes (THMs)	(3) 40mL Vials	5 - 7 BD	<b>\$125.00</b>
Total Coliform (Quanti-tray 18 hour)*	125mL sterile	24 HR	<b>\$20.00</b>

**PLEASE CALL IN ADVANCE FOR SAMPLING CONTAINERS**

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## Environmental INORGANIC ENVIRONMENTAL

	Required Sample Size	Turnaround Time	Price
<b>LANGELIER SATURATION INDEX PACKAGE</b>	250mL	5 - 7 BD	<b>\$65.00</b>
Includes calcium, conductivity, pH & alkalinity			
<b>RYZNAR STABILITY INDEX PACKAGE</b>	250mL	5 - 7 BD	<b>\$65.00</b>
Includes calcium, conductivity, pH & alkalinity			
<b>INDIVIDUAL ANALYTES</b>			
Acidity	250mL	5 - 7 BD	<b>\$25.00</b>
Alkalinity	250mL	5 - 7 BD	<b>\$20.50</b>
Ash (Percent)	50g	5 - 7 BD	<b>\$20.00</b>
Biochemical Oxygen Demand (BOD) 5-day †	1L	5 - 7 BD	<b>\$45.00</b>
Biochemical Oxygen Demand (BOD) Saturday †	1L	5 - 7 BD	<b>\$90.00</b>
Carbonaceous Biochemical Oxygen Demand (CBOD) 5-day †	1L	5 - 7 BD	<b>\$45.00</b>
Carbonaceous Biochemical Oxygen Demand (CBOD) Saturday †	1L	5 - 7 BD	<b>\$90.00</b>
Soluble Biochemical Oxygen Demand (SBOD)	1L	5 - 7 BD	<b>\$50.00</b>
Soluble Carbonaceous Biochemical Oxygen Demand (SCBOD)	1L	5 - 7 BD	<b>\$50.00</b>
Chemical Oxygen Demand	250mL	5 - 7 BD	<b>\$35.00</b>
Chemical Oxygen Demand (Soluble)	250mL	5 - 7 BD	<b>\$40.00</b>
Chloride (by IC)	125mL	5 - 7 BD	<b>\$20.00</b>
Chloride (colorimetric)	125mL	5 - 7 BD	<b>\$20.00</b>
Chlorine, Residual (in Lab) *	500mL	2 - 3 BD	<b>\$22.00</b>
Chlorophyll a	1L	5 - 7 BD	<b>\$45.00</b>
Color	125mL	5 - 7 BD	<b>\$25.00</b>
Conductance (EC)	125mL	5 - 7 BD	<b>\$15.00</b>
Cyanide, Total (Liquid)	250mL	5 - 7 BD	<b>\$40.00</b>
Cyanide, Total (Solid)	25g	5 - 7 BD	<b>\$55.00</b>
Cyanide, Total and Amenable	250mL	5 - 7 BD	<b>\$80.00</b>
Dissolved Gases (in Water) (Methane, Ethane, Ethylene)	125mL	5 - 7 BD	<b>\$115.00</b>

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	Required Sample Size	Turnaround Time	Price
Dissolved Oxygen (in Lab)	125mL	2 – 3 BD	<b>\$12.00</b>
Dissolved Phosphorus (same as Orthophosphorus) †	125mL	5 – 7 BD	<b>\$21.50</b>
Elutriate Processing	Call for sample size	--	<b>\$170.00</b>
Extractable Organic Halides (EOX)	25g	5 – 7 BD	<b>\$100.00</b>
Fluoride (by IC)	125mL	5 – 7 BD	<b>\$20.00</b>
Free CO2	125mL	5 – 7 BD	<b>\$50.00</b>
Hardness (by ICP) (Mg & Ca)	125mL	5 – 7 BD	<b>\$50.00</b>
Hexane Extractable Materials (HEM) (liquid)	1L	5 – 7 BD	<b>\$75.00</b>
Hexane Extractable Materials (HEM) (solid)	100g	5 – 7 BD	<b>\$100.00</b>
Hexavalent Chromium (liquid) †	250mL	5 – 7 BD	<b>\$45.00</b>
Microcystin	125mL sterile	5 – 7 BD	<b>\$45.00</b>
Monochloramine *	250mL	5 – 7 BD	<b>\$20.00</b>
Nitrogen, Ammoniacal (soil/sediment)	100g	5 – 7 BD	<b>\$27.00</b>
Nitrogen, Ammoniacal (liquid, distillation)	250mL	5 – 7 BD	<b>\$21.50</b>
Nitrogen, Ammoniacal (discrete analyzer) (EPA 350.1)	250mL	5 – 7 BD	<b>\$18.00</b>
Nitrogen, Nitrate (ion chromatography EPA 300.0) †	250mL	5 – 7 BD	<b>\$20.00</b>
Nitrogen, Nitrate Nitrite (Cadmium Reduction) (EPA 353.2)	125mL	5 – 7 BD	<b>\$15.00</b>
Nitrogen, Nitrite + pH †	250mL	5 – 7 BD	<b>\$32.50</b>
Nitrogen, Total Kjeldahl (TKN)	250mL	5 – 7 BD	<b>\$27.50</b>
Orthophosphate (colorimetric) †	125mL	5 – 7 BD	<b>\$21.50</b>
Paint Filter		3 – 5 BD	<b>\$25.00</b>
pH	125mL	3 – 5 BD	<b>\$10.00</b>
pH Adjustment (Type and volume of acid required to adjust pH to a designated pH)	250mL	3 – 5 BD	<b>\$40.00</b>
Total Phosphorus (colorimetric)	250mL	5 – 7 BD	<b>\$27.00</b>
Phenolics (liquid)	250mL	5 – 7 BD	<b>\$45.00</b>
Phenolics (solid)	100mL	5 – 7 BD	<b>\$60.00</b>
Redox Potential	125mL	3 – 5 BD	<b>\$30.00</b>
Solids, Settleable	1L	5 – 7 BD	<b>\$20.00</b>
Solids, Total	250mL	5 – 7 BD	<b>\$20.00</b>
Solids, Total Dissolved	250mL	5 – 7 BD	<b>\$25.00</b>
Solids, Total Suspended	250mL	5 – 7 BD	<b>\$20.00</b>

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	Required Sample Size	Turnaround Time	Price
Solids, Total Volatile	250mL	5 - 7 BD	<b>\$20.00</b>
Solids, Total Volatile Suspended	250mL	5 - 7 BD	<b>\$25.00</b>
Specific Gravity (gravimetric)	100g	5 - 7 BD	<b>\$20.00</b>
SOUR (Specific Oxygen Uptake Rate)	100g	8 - 10 BD	<b>\$65.00</b>
Sulfate (by IC)	125mL	5 - 7 BD	<b>\$20.00</b>
Sulfide (liquid)	500mL	5 - 7 BD	<b>\$40.00</b>
Sulfide (solid)	100g	5 - 7 BD	<b>\$60.00</b>
Total Halogens	10g	5 - 7 BD	<b>\$100.00</b>
Total Organic Carbon (liquid)	250mL	5 - 7 BD	<b>\$35.00</b>
Total Organic Carbon (solids)	5g	5 - 7 BD	<b>\$22.00</b>
Total Organic Nitrogen (Kjeldahl Nitrogen minus Ammonia)	250mL	5 - 7 BD	<b>\$42.50</b>
Total Organic Halides (liquid)	1L	5 - 7 BD	<b>\$95.00</b>
Turbidity	250mL	5 - 7 BD	<b>\$15.00</b>
Volatile Organic Acids	500mL	5 - 7 BD	<b>\$40.00</b>



## Environmental INORGANIC METALS

Most elements are analyzed by Inductively Coupled Plasma Optical Emission Spectroscopy (ICP-OES).

Some of these elements, notably Arsenic and Selenium, are routinely analyzed by Inductively Coupled Plasma Mass Spectroscopy (ICP-MS) for enhanced sensitivity. Mercury is analyzed by Cold Vapor Atomic Absorption (CVAA) or ICP-MS.

### SAMPLE PREPARATION FEES (PER SAMPLE)

The Laboratory will select the method deemed to be most appropriate unless the client or a regulatory body specifies a method. Each sample must be prepared by an appropriate method of digestion, filtration or extraction. Charges are shown below.

Acid Digestion - applied to all ICP-MS and ICP-OES analysis	<b>\$20.00</b>
Filtration (0.45 Micron)	<b>\$17.00</b>
Fusion	<b>\$40.00</b>
Extractions	<b>\$20.00</b>

If a quicker turnaround time is needed, please contact our Rush Coordinator for an estimated cost at [RUSH\\_COORDINATOR@MIDWESTLABS.COM](mailto:RUSH_COORDINATOR@MIDWESTLABS.COM)

	Required Sample Size	Turnaround Time	Price
<b>ICP-MS LOW LEVEL SENSITIVITY ANALYSIS</b>	Call for sample size	5 - 7 BD	<b>\$20.00/EA</b>

Antimony      Cadmium      Thallium      Selenium      Arsenic  
Lead      Uranium

<b>ICP-OES ANALYSIS FOR ROUTINE ELEMENTS</b>	Call for sample size	5 - 7 BD	<b>\$16.00/EA</b>
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Aluminum      Cadmium      Lead      Potassium      Strontium  
Antimony      Calcium      Magnesium      Selenium      Sulfur  
Arsenic      Chromium      Manganese      Silicon (acid soluble)      Tin  
Barium      Cobalt      Molybdenum      Silicon, Total      Titanium  
Beryllium      Copper      Nickel      Silver      Vanadium  
Boron      Iron      Phosphorous      Sodium      Zinc

<b>ICP-OES ANALYSIS FOR NON-ROUTINE ELEMENTS</b>	Call for sample size	7 - 10 BD	<b>\$30.00/EA</b>
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Bismuth      Germanium      Lutetium      Rhodium      Thorium  
Cerium      Gold      Neodymium      Rubidium      Thulium  
Cesium      Hafnium      Niobium      Ruthenium      Tungsten  
Dysprosium      Holmium      Osmium      Samarium      Uranium  
Erbium      Indium      Palladium      Scandium      Ytterbium  
Europium      Iridium      Platinum      Tantalum      Ytterium  
Gadolinium      Lanthanum      Praseodymium      Tellurium  
Gallium      Lithium      Rhenium      Terbium

<b>LEAD IN PAINT OR SOIL</b>	50g	5 - 7 BD	<b>\$36.00</b>
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<b>MERCURY (CVAA)</b>	25g	5 - 7 BD	<b>\$45.00</b>
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(Includes Sample Preparation)

<b>NPDES PACKAGE FOR WASTEWATER</b>	500mL	5 - 7 BD	<b>\$97.50</b>
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Total Cadmium, Chromium, Copper, Lead, Nickel, Zinc (total recoverable or dissolved) (includes sample preparation)

**PRIORITY POLLUTANT (PP) METALS**

Antimony, Arsenic, Beryllium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Silver, Thallium, Zinc (includes sample preparation)

For Soil	100g	5 - 7 BD	<b>\$220.00</b>
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For Water	500mL	5 - 7 BD	<b>\$200.00</b>
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	Required Sample Size	Turnaround Time	Price
<b>QUANTITATIVE ICP-OES SCREEN (NOT FOR ASSAY PURPOSES)</b>	Soil: 10g Water: 500mL	5 - 7 BD	<b>\$150.00</b>

Aluminum, Arsenic, Barium, Boron, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Molybdenum, Nickel, Phosphorus, Potassium, Selenium, Silver, Sodium, Sulfur, Zinc (includes sample preparation)

#### RCRA METALS:

Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver

Drinking Water (includes sample preparation)	500mL	5 - 7 BD	<b>\$160.00</b>
Wastewater (includes sample preparation)	500mL	5 - 7 BD	<b>\$160.00</b>
Solids (includes sample preparation)	100g	5 - 7 BD	<b>\$165.00</b>

#### SILICON IN SOLIDS

(Includes Sample Preparation)

Silicon, Acid Soluble	50g	5 - 7 BD	<b>\$36.00</b>
Silicon, Fusion	10g	8 - 10 BD	<b>\$60.00</b>

#### TARGET ANALYTE LIST (TAL) METALS

Aluminum, Antimony, Arsenic, Barium, Beryllium, Cadmium, Calcium, Chromium, Cobalt, Copper, Iron, Lead, Magnesium, Manganese, Mercury, Nickel, Potassium, Selenium, Silver, Sodium, Thallium, Vanadium, Zinc(includes sample preparation)

For Soil	50g	5 - 7 BD	<b>\$225.00</b>
For Water	500mL	5 - 7 BD	<b>\$235.00</b>



## Environmental LANDFILL

Appendix I metals and VOC's	--	--	<b>\$260.00</b>
Appendix I metals only	--	--	<b>\$200.00</b>
Appendix I trip blank	--	--	<b>\$105.00</b>
Appendix I metals, VOC's & Indicator Parameters	--	--	<b>\$400.00</b>
Indicators Only	--	--	<b>\$180.00</b>
Appendix II	--	--	<b>\$600.00</b>

If a quicker turnaround time is needed, please contact our Rush Coordinator for an estimated cost at [RUSH\\_COORDINATOR@MIDWESTLABS.COM](mailto:RUSH_COORDINATOR@MIDWESTLABS.COM)



# Environmental MICROBIOLOGY

	Required Sample Size	Turnaround Time	Price
<b>AEROBIC PLATE COUNT</b>	25g	2 D	<b>\$20.00</b>
<b>AIR TESTING</b>			
Aerobic Plate Count	Air Plate	2 D	<b>\$20.00</b>
Mold	Air Plate	5 D	<b>\$20.00</b>
<b>EU WATER TEST #1</b>	(2) 125mL sterile	3 D	<b>\$50.00</b>
Total Coliforms, Aerobic Plate Count 22°C and 37°C			
<b>EU WATER TEST #2</b>	(4) 125mL sterile	3 D	<b>\$100.00</b>
Coliforms, Fecal Coliform, Aerobic Plate Count 22°C and 37°C, Fecal Streptococcus, Sulfate Reducing Bacteria			
<b>WATER</b>			
Aerobic Plate Count	125mL sterile	2 – 5 D	<b>\$20.00</b>
Campylobacter	125mL sterile	2 D	<b>\$30.00</b>
E.coli & Total Coliforms (Quantitray 18hr) *	125mL sterile	1 D	<b>\$20.00</b>
Fecal Coliforms *	125mL sterile	1 D	<b>\$20.00</b>
Fecal Streptococcus *	125mL sterile	1 D	<b>\$20.00</b>
Iron Bacteria	125mL sterile	5 – 7 D	<b>\$30.00</b>
Legionella	125mL sterile	7 D	<b>\$45.00</b>
Microcystin	125mL sterile	5 – 7 D	<b>\$40.00</b>
Pseudomonas species	125mL sterile	1 D	<b>\$20.00</b>
Salmonella (Lateral Flow)	125mL sterile	2 D	<b>\$20.00</b>
Sulfate Reducing Bacteria	125mL sterile	5 – 7 D	<b>\$30.00</b>

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## Environmental NPDES PERMIT PARAMETERS

	Required Sample Size	Turnaround Time	Price
<b>NPDES PACKAGE FOR WASTE WATER</b>	500mL	5 - 7 BD	<b>\$97.50</b>
Total Cadmium, Chromium, Copper, Lead, Nickel, Zinc (total recoverable or dissolved) (includes sample preparation)			
<b>PRIORITY POLLUTANT (PP) METALS</b>	500mL	5 - 7 BD	<b>\$200.00</b>
Antimony, Arsenic, Beryllium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Silver, Thallium, Zinc (includes sample preparation)			
<b>INDIVIDUAL ANALYTES</b>			
503 Regulations	500mL	5 - 7 BD	<b>\$215.00</b>
7 Fecal Coliform + Percent Solids (Biosolids) *	(7) 250mL	5 - 7 BD	<b>\$280.00</b>
Ammonia	500mL	5 - 7 BD	<b>\$21.50</b>
Biochemical Oxygen Demand (BOD)/ Carbonaceous Biochemical Oxygen Demand (CBOD) †	1L	5 - 7 BD	<b>\$45.00</b>
E.coli *	125mL	1 D	<b>\$25.00</b>
Fecal Coliform *	125mL	1 D	<b>\$20.00</b>
Hexane Extractable Materials (HEM or Oil & Grease)	1L glass	5 - 7 BD	<b>\$75.00</b>
Kjeldahl Nitrogen	250mL	5 - 7 BD	<b>\$27.50</b>
Priority Pollutant (PP) Metals	500mL	5 - 7 BD	<b>\$200.00</b>
Total Dissolved Solids	500mL	5 - 7 BD	<b>\$20.00</b>
Total Nitrogen (TKN + Nitrate)	500mL	5 - 7 BD	<b>\$42.50</b>
Total Phosphorus	500mL	5 - 7 BD	<b>\$27.00</b>
Total Suspended Solids	500mL	5 - 7 BD	<b>\$20.00</b>

\* Samples must be received at the laboratory within 24 hours of sampling.

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# Environmental ORGANICS BY GC/MS

		Required Sample Size	Turnaround Time	Price
<b>EPA 8260 SOIL</b>		8oz Jar	5 - 7 BD	<b>\$125.00</b>
1,1,1,2-Tetrachloroethane	1,2-Dichloropropane	Bromobenzene	Dibromomethane	sec-Butylbenzene
1,1,1-Trichloroethane	1,3,5-Trimethylbenzene	Bromochloromethane	Dichlorodifluoromethane	Styrene
1,1,2,2-Tetrachloroethane	1,3-Dichlorobenzene	Bromodichloromethane	Ethyl Ether	tert-Butylbenzene
1,1,2-Trichloro-1,1,2-trifluoroethane	1,3-Dichloropropane	Bromoform	Ethyl Methacrylate	Tetrachloroethene
1,1,2-Trichloroethane	1,4-Dichlorobenzene	Bromomethane	Ethylbenzene	Toluene
1,1-Dichloroethane	2,2-Dichloropropane	Carbon disulfide	Hexachlorobutadiene	Total Xylenes
1,1-Dichloroethene	2-Butanone	Carbon Tetrachloride	Iodomethane	trans-1,2-Dichloroethene
1,1-Dichloropropene	2-Chloroethyl vinyl ether	Chlorobenzene	Isopropylbenzene	trans-1,3-Dichloropropene
1,2,3-Trichloroethane	2-Chlorotoluene	Chloroethane	m,p-Xylenes	trans-1,4-Dichloro-2-butene
1,2,3-Trichloropropene	2-Hexanone	Chloroform	Methyl tert-Butyl Ether	Trichloroethene
1,2,4-Trichlorobenzene	4-Chlorotoluene	Chloromethane	Methylene Chloride	Trichlorofluoromethane
1,2,4-Trimethylbenzene	4-Methyl-2-pentanone	Chloroprene	Naphthalene	Vinyl acetate
1,2-Dibromo-3-Chloropropane	Acetone	cis-1,2-Dichloroethene	n-Butyl Benzene	Vinyl chloride
1,2-Dibromoethane	Acrolein	cis-1,3-Dichloropropene	n-Propyl Benzene	
1,2-Dichlorobenzene	Acrylonitrile	cis-1,4-Dichloro-2-butene	o-Xylene	
1,2-Dichloroethane	Benzene	Dibromochloromethane	p-Isopropyltoluene	

		(3) 40mL Vials	5 - 7 BD	<b>\$125.00</b>
1,1,1,2-Tetrachloroethane	1,2-Dichloropropane	Bromochloromethane	Dichlorodifluoromethane	p-Isopropyltoluene
1,1,1-Trichloroethane	1,3,5-Trimethylbenzene	Bromodichloromethane	Ethyl Ether	sec-Butylbenzene
1,1,2,2-Tetrachloroethane	1,3-Dichlorobenzene	Bromoform	Ethyl Methacrylate	Styrene
1,1,2-Trichloro-1,1,2-trifluoroethane	1,3-Dichloropropane	Bromomethane	Ethylbenzene	tert-Butylbenzene
1,1,2-Trichloroethane	1,4-Dichlorobenzene	Carbon disulfide	Hexachlorobutadiene	Tetrachloroethene
1,1-Dichloroethane	2,2-Dichloropropane	Carbon Tetrachloride	Iodomethane	Tetrahydrofuran
1,1-Dichloroethene	2-Butanone	Chlorobenzene	Isopropylbenzene	Toluene
1,1-Dichloropropene	2-Chlorotoluene	Chloroethane	m,p-Xylenes	Total Trihalomethanes
1,2,3-Trichlorobenzene	2-Hexanone	Chloroform	Methyl Acrylate	Total Xylenes
1,2,3-Trichloropropene	4-Chlorotoluene	Chloromethane	Methyl Methacrylate	trans-1,2-Dichloroethene
1,2,4-Trichlorobenzene	4-Methyl-2-pentanone	Chloroprene	Methyl tert-Butyl Ether	trans-1,3-Dichloropropene
1,2,4-Trimethylbenzene	Acetone	cis-1,2-Dichloroethene	Methylene Chloride	trans-1,4-Dichloro-2-butene
1,2-Dibromo-3-Chloropropane	Acrylonitrile	cis-1,3-Dichloropropene	Naphthalene	Trichloroethene
1,2-Dibromoethane	Allyl Chloride	cis-1,4-Dichloro-2-butene	n-Butyl Benzene	Trichlorofluoromethane
1,2-Dichlorobenzene	Benzene	Dibromochloromethane	n-Propyl Benzene	Vinyl acetate
1,2-Dichloroethane	Bromobenzene	Dibromomethane	o-Xylene	Vinyl chloride

		(3) 40mL Vials	5 - 7 BD	<b>\$200.00</b>
4,4'-DDE	Aroclor 1016	Aroclor 1260	Endosulfan I	gamma-BHC (Lindane)
4,4'-DDD	Aroclor 1221	Aroclor 1262	Endosulfan II	gamma-Chlordane
4,4'-DDT	Aroclor 1232	Aroclor 1268	Endrin	Heptachlor
4,4'-Methoxychlor	Aroclor 1242	beta - BHC	Endrin aldehyde	Heptachlor epoxide
Aldrin	Aroclor 1248	delta - BHC	Endrin ketone	Technical Chlordane
alpha - BHC	Aroclor 1254	Dieldrin	Endosulfan sulfate	Toxaphene
alpha-Chlordane				

		Required Sample Size	Turnaround Time	Price
<b>EPA 624 (VOLATILES) TTO (TOTAL TOXIC ORGANICS)</b>		(3) 40mL Vials	5 - 7 BD	<b>\$125.00</b>
1,1,1-Trichloroethane	1,2-Dichloropropane	Bromodichloromethane	Chloromethane	Toluene
1,1,2,2-Tetrachloroethane	1,3-Dichlorobenzene	Bromoform	cis-1,3-Dichloropropene	trans-1,2-Dichloroethene
1,1,2-Trichloroethane	1,4-Dichlorobenzene	Bromomethane	Dibromochloromethane	trans-1,3-Dichloropropene
1,1-Dichloroethane	2-Chloroethyl vinyl ether	Carbon Tetrachloride	Ethylbenzene	Trichloroethene
1,1-Dichloroethene	Acrolein	Chlorobenzene	Methylene Chloride	Trichlorofluoromethane
1,2-Dichlorobenzene	Acrylonitrile	Chloroethane	Naphthalene	Vinyl chloride
1,2-Dichloroethane	Benzene	Chloroform	Tetrachloroethene	

		3L	7 - 10 BD	\$240.00
<b>EPA 625 (SEMIVOLATILES) TTO (TOTAL TOXIC ORGANICS)</b>				
1,2,4-Trichlorobenzene	2-Chlorophenol	Benzidine	Dibenzo(a,h)anthracene	Isophorone
1,2-Dichlorobenzene	2-Nitrophenol	Benzo(a)anthracene	Diethyl phthalate	Naphthalene
1,2-Diphenylhydrazine	3,3'-Dichlorobenzidine	Benzo(a)pyrene	Dimethylphthalate	Nitrobenzene
1,3-Dichlorobenzene	4,6-Dinitro-2-methylphenol	Benzo(b)fluoranthene	Di-n-butyl phthalate	N-Nitrosodimethylamine
1,4-Dichlorobenzene	4-Bromophenylphenylether	Benzo(ghi)perylene	Di-n-octyl phthalate	N-Nitroso-di-n-propylamine
2,4,6-Trichlorophenol	4-Chloro-3-methylphenol	Benzo(k)fluoranthene	Fluoranthene	N-Nitrosodiphenylamine
2,4-Dichlorophenol	4-Chlorophenylphenylether	bis(2-chloroethoxy)methane	Fluorene	Pentachlorophenol
2,4-Dimethylphenol	4-Nitrophenol	bis(2-chloroethyl)ether	Hexachlorobenzene	Phenanthrene
2,4-Dinitrophenol	Acenaphthene	bis(2-chloroisopropyl)ether	Hexachlorobutadiene	Phenol
2,4-Dinitrotoluene	Acenaphthylene	bis(2-ethylhexyl)phthalate	Hexachlorocyclopentadiene	Pyrene
2,6-Dinitrotoluene	Anthracene	Butylbenzylphthalate	Hexachloroethane	
2-Chloronaphthalene	Azobenzene	Chrysene	Indeno(1,2,3-cd)pyrene	

		Soils: 8oz Jar Water: 3l	7 - 10 BD	\$240.00
<b>EPA 8270 (SEMIVOLATILES)</b>				
1,2,4-Trichlorobenzene	2-Methylnaphthalene	Acenaphthene	Butylbenzylphthalate	Hexachloroethane
1,2-Dichlorobenzene	2-Methylphenol	Acenaphthylene	Carbazole	Indeno(1,2,3-cd)pyrene
1,2-Diphenylhydrazine	2-Nitroaniline	Anthracene	Chrysene	Isophorone
1,3-Dichlorobenzene	2-Nitrophenol	Azobenzene	Dibenzo(a,h)anthracene	Naphthalene
1,4-Dichlorobenzene	3,3'-Dichlorobenzidine	Benzidine	Benzo(f)uran	Nitrobenzene
2,4,5-Trichlorophenol	3-Nitroaniline	Benzo(a)anthracene	Diethyl phthalate	N-Nitrosodimethylamine
2,4,6-Trichlorophenol	4,6-Dinitro-2-methylphenol	Benzo(a)pyrene	Dimethylphthalate	N-Nitroso-di-n-propylamine
2,4-Dichlorophenol	4-Bromophenylphenylether	Benzo(b)fluoranthene	Di-n-butyl phthalate	N-Nitrosodiphenylamine
2,4-Dimethylphenol	4-Chloro-3-methylphenol	Benzo(ghi)perylene	Di-n-octyl phthalate	Pentachlorophenol
2,4-Dinitrophenol	4-Chloroaniline	Benzo(k)fluoranthene	Fluoranthene	Phenanthrene
2,4-Dinitrotoluene	4-Chlorophenylphenylether	bis(2-chloroethoxy)methane	Fluorene	Phenol
2,6-Dinitrotoluene	4-Methylphenol	bis(2-chloroethyl)ether	Hexachlorobenzene	Pyrene
2-Chloronaphthalene	4-Nitroaniline	bis(2-chloroisopropyl)ether	Hexachlorobutadiene	Total Cresol
2-Chlorophenol	4-Nitrophenol	bis(2-ethylhexyl)phthalate	Hexachlorocyclopentadiene	

		100mL	5 - 7 BD	\$120.00
<b>GLYCOL DETERMINATION</b>				
Diethylene glycol, Ethylene glycol, Propylene glycol				

If a quicker turnaround time is needed, please contact our Rush Coordinator for an estimated cost at [RUSH\\_COORDINATOR@MIDWESTLABS.COM](mailto:RUSH_COORDINATOR@MIDWESTLABS.COM)



# Environmental PESTICIDES BY GAS CHROMATOGRAPHY

	Required Sample Size	Turnaround Time	Price
<b>NEUTRAL EXTRACTABLES (MDA-NEP)</b>	Soil: 8oz Jar Water: (3) 40mL Vials	5 - 7 BD	<b>\$150.00</b>

Acetochlor (Harness)	Butylate (Sutan)	Ethalfuralin (Sonolan)	Pendimethalin (Prowl)	Terbufos (Counter)
Alachlor (Lasso)	Chlorpyrifos (Dursban, Lorsban)	Fonofos (Dyfonate)	Phorate (Thimet)	Triallate (Far-go)
Ametryn (Evik)	Cyanazine (Bladex)	Hexazinone (Velpar)	Prometon (Pramitol)	Trifluralin (Treflan)
Atrazine (Aatrex)	Deethylatrazine	Isophenphos (Oftanol)	Prometryn(Caparol)	
Benfluralin (Balan)	Deisopropylatrazine	Metolachlor (Dual)	Propachlor (Ramrod)	
Bromacil (Hyvar)	Dimethenamid (Frontier)	Metribuzin(Sencor)	Propazine (Milogard)	
Butachlor (Machete)	EPTC (Eptam, Eradicane)	Oxadiazon (Ronstar)	Simazine (Princep)	

<b>EPA 8081A / 8082 (ORGANOCHLORINE PESTICIDES)</b>	Soil: 8oz Jar Water: 3L	7 - 10 BD	<b>\$200.00</b>
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4,4'-DDD	Aroclor 1016	Aroclor 1260	Endosulfan I	gamma-BHC (Lindane)
4,4'-DDE	Aroclor 1221	Aroclor 1262	Endosulfan II	gamma-Chlordane
4,4'-DDT	Aroclor 1232	Aroclor 1268	Endosulfan sulfate	Heptachlor
Aldrin	Aroclor 1242	beta - BHC	Endrin	Heptachlor epoxide
alpha - BHC	Aroclor 1248	delta - BHC	Endrin aldehyde	Methoxychlor
alpha-Chlordane	Aroclor 1254	Dieldrin	Endrin ketone	Toxaphene

<b>EPA 8141 (ORGANOPHOSPHOROUS PESTICIDES)</b>	Soil: 8oz Jar Water: 3L	5 - 7 BD	<b>\$150.00</b>
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Azinphos Methyl	Diazinon	Fensulfothion	Naled	TEPP
Bolstar	Dichlorvos	Fenthion	Parathion	Tokuthion
Chlorpyrifos	Dimethoate	Malathion	Phorate	Trichloronate
Coumaphos	Disulfoton	Merphos	Ronnel	
Demeton-O	Ethoprop	Methyl Parathion	Sulfotep	
Demeton-S	EPN	Mevinphos	Tetrachlorovinphos	

## EPA 8082 (PCB'S)

Oil (VOA Vile)	40ml VOA Vile	7 - 10 BD	<b>\$125.00</b>
Soil	8oz Jar	7 - 10 BD	<b>\$170.00</b>
Water	3L	7 - 10 BD	<b>\$160.00</b>
Wipe	contact for supplies	7 - 10 BD	<b>\$170.00</b>

Aroclor 1016	Aroclor 1248	Aroclor 1221	Aroclor 1254	Aroclor 1268
Aroclor 1232	Aroclor 1260	Aroclor 1242	Aroclor 1262	

<b>GLYPHOSATE IN WATER ONLY</b>	3L	7 - 10 BD	<b>\$275.00</b>
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# Environmental PETROLEUM CONTAMINATION

	Required Sample Size	Turnaround Time	Price
<b>FUEL FINGERPRINT</b>	150mL	5 - 7 BD	<b>\$90.00</b>
<b>OIL PACKAGES</b>			
Fuel Oil – Sulfur, BTU, Low & High Heating Value, Specific Gravity	250mL	5 - 7 BD	<b>\$140.00</b>
New Oil – BTU, Specific Gravity, Sulfur, Moisture	250mL	5 - 7 BD	<b>\$175.00</b>
Used Oil – Total Halogens, Arsenic, Cadmium, Chromium, Flash Point, Lead	500mL	5 - 7 BD	<b>\$250.00</b>
<b>SULFUR TOTAL IN FUEL (ASTM D5453)</b>	25g	5 - 7 BD	<b>\$60.00</b>
<b>UNDERGROUND STORAGE TANKS &amp; SURFACE SPILLS</b>			
OA-1 (BTEX, Hexane, MTBE, Naphthalene, and TPH for gasoline)	Water: (3) 40mL Vials	5 - 7 BD	<b>\$75.00</b>
	Soil: 8oz. Jar		<b>\$75.00</b>
OA-2 (as gasoline, diesel, Kerosene, Mineral Spirits, waste oil)	Water: (3) 1L Vials	5 - 7 BD	<b>\$85.00</b>
	Soil: 8oz. Jar		<b>\$85.00</b>
Gasoline-range Organics (GRO)	Water: (3) 40mL Vials	5 - 7 BD	<b>\$85.00</b>
	Soil: 8oz. Jar		<b>\$85.00</b>
Diesel-range Organics (DRO)	Water: (3) 1L Vials	5 - 7 BD	<b>\$110.00</b>
	Soil: 8oz. Jar		<b>\$110.00</b>
<b>WASTE OIL/PETROLEUM</b>			
BTUs	100g	2 - 3 BD	<b>\$45.00</b>
Flash Point, Liquid Samples (Closed Cup, 4° - 300°C)	1 - 2 cups	5 - 7 BD	<b>\$90.00</b>
Polychlorinated Biphenyls in oil (PCB's)	8oz. Soil Jar	5 - 7 BD	<b>\$125.00</b>
Sulfur	25g	5 - 7 BD	<b>\$60.00</b>
Total Halogens (as Chlorine)	100g	5 - 7 BD	<b>\$110.00</b>

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## SAMPLING CHARGES

Midwest Laboratories has a trained and experienced field crew capable of sampling time and flow proportioned composites, monitoring wells, and frozen meat or other foods. Labor will be invoiced per man-hour, travel time included. Additional charges may be assessed for hazardous work, confined space entry, or excessively long workdays. Vehicle mileage is charged per mile and equipment charges may apply.

	<i>Price</i>
Drive Time	<b>\$55.00/HR</b>
Non-hazardous or non-confined spaces per employee	<b>\$75.00/HR</b>
Hazardous or confined spaces per employee	<b>\$90.00/HR</b>

## EQUIPMENT

Sampling and monitoring equipment is available for use on sampling projects by Midwest technicians. Use of equipment other than by Midwest staff will be at the discretion of the laboratory and requires a deposit. Midwest assumes no liability for the use of this equipment by persons other than Midwest employees.



## Environmental SOIL CORROSIVE TO PIPES

	<i>Required Sample Size</i>	<i>Turnaround Time</i>	<i>Price</i>
Redox Potential, Conductivity, Resistivity, pH, Chloride, Sulfate, Sulfide Screen, Percent Solids	100g	5 - 7 BD	<b>\$110.00</b>

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**RUSH\_COORDINATOR@MIDWESTLABS.COM**





# Environmental SUSPECTED HAZARDOUS & SOLID WASTE

	Required Sample Size	Turnaround Time	Price
<b>CORROSIVITY</b>			
pH Determination	125mL	3 - 5 BD	<b>\$10.00</b>
Solid Samples	25g	3 - 5 BD	<b>\$12.00</b>
<b>IGNITABILITY</b>			
Flash Point, Liquid Samples (Closed Cup, 4° - 300°C)	1-2 cups	5 - 7 BD	<b>\$90.00</b>
Flash Point, Solid Samples (Open Cup, 4° - 200°C)	1-2 cups	5 - 7 BD	<b>\$90.00</b>
<b>PAINT FILTER TEST</b>			
	20g	5 - 7 BD	<b>\$25.00</b>
<b>REACTIVITY</b>			
Releasable Cyanide	--	5 - 7 BD	<b>\$55.00</b>
Releasable Sulfide	--	8 - 10 BD	<b>\$55.00</b>
Tested for violent reaction with Water	--	5 - 7 BD	<b>\$20.00</b>
Tested for violent reaction with Base	--	5 - 7 BD	<b>\$20.00</b>
Tested for violent reaction with Acid	--	5 - 7 BD	<b>\$20.00</b>
<b>TCLP INORGANICS*</b>			
	400g	5 - 7 BD	<b>\$240.00</b>
Arsenic Barium Chromium Cadmium Lead Mercury Selenium Silver			
<b>TCLP VOLATILES†</b>			
	200g	6 - 8 BD	<b>\$300.00</b>
1,1-Dichloroethene 1,2-Dichloroethane 1,4-Dichlorobenzene Benzene Carbon Tetrachloride Chloroform Trichloroethylene Chlorobenzene Methyl-Ethyl Ketone (2-butanone) Tetrachloroethylene Vinyl Chloride			
<b>TCLP SEMI VOLATILES†</b>			
	200g	7 - 10 BD	<b>\$325.00</b>
1,4-Dichlorobenzene 2,4-Dinitrotoluene 2,4,5-Trichlorophenol 2,4,6-Trichlorophenol Hexachlorobutadiene Hexachloroethane Nitrobenzene Pentachlorophenol Pyridine Total Cresol			

\* Toxic Characteristics Leaching Procedure (TCLP) price include extraction and analysis of "waste" and extraction of sample per TCLP QC requirements.

† Prices include extraction and analysis of "solid waste" only and extraction of sample per TCLP QC requirements.



# Environmental HOME OWNERS & SMALL BUSINESSES

	Required Sample Size	Turnaround Time	Price
<b>W1 - LIVESTOCK SUITABILITY</b>	(2) 250mL	5 - 7 BD	<b>\$50.00</b>
Sodium, Conductivity, Iron, Calcium, Sulfate, Copper, Magnesium, Nitrate Nitrogen, Total Dissolved Solids (by calculation), Chloride, pH			
<b>W2 - IRRIGATION SUITABILITY</b>	(2) 250mL	5 - 7 BD	<b>\$65.00</b>
Sodium, Chloride, Phosphorus, Calcium, Conductivity, Potassium, Magnesium, Sulfate, Boron, Iron, Nitrate Nitrogen, SAR, Copper, pH, Total Dissolved Solids (by calculation), Manganese, Carbonate, Zinc, Bicarbonate			
<b>W3 - WATER QUALITY*</b>	(2) 250mL and 125mL sterile	5 - 7 BD	<b>\$70.00</b>
Total Coliform, Total Hardness, Manganese, E.coli, Conductivity, Sulfate, Sodium, Iron, Chloride, Calcium, Total Dissolved Solids (by calculation), Fluoride, Magnesium, pH, Nitrate Nitrogen			
<b>W3A</b>	(2) 250mL	5 - 7 BD	<b>\$62.00</b>
Total Hardness, Manganese, Conductivity, Sulfate, Sodium, Iron, Chloride, Calcium, Total Dissolved Solids (by calculation), Fluoride, Magnesium, pH, Nitrate Nitrogen			
<b>W4*</b>	250mL plastic and 125mL sterile	3 - 5 BD	<b>\$35.00</b>
Total Coliform, E. coli, Nitrate-Nitrite Nitrogen (EPA 353.2)			
<b>W5 - FHA LOAN*</b>			
Total Coliform, Nitrate Nitrogen, Lead, Fecal Coliform, Nitrite Nitrogen, E. Coli	250mL plastic, 1L plastic, & (2) 125mL sterile	5 - 7 BD	<b>\$95.00</b>
Lead & Copper in drinking water	1L	5 - 7 BD	<b>\$50.00</b>
Fluoride in unknown water source	125mL plastic	5 - 7 BD	<b>\$20.00</b>
Total Coliform (Quanti tray 18 hour)*	125mL sterile	1 D	<b>\$20.00</b>
Trihalomethanes (THMs) in drinking water (EPA 524.1)	(3) 40mL vials	5 - 7 BD	<b>\$125.00</b>

\* Samples must be received at the laboratory within 24 hours of sampling.

	<i>Required Sample Size</i>	<i>Turnaround Time</i>	<i>Price</i>
<b>pH ADJUSTMENT</b>	250mL	5 - 7 BD	<b>\$40.00</b>
Type and volume of acid required to adjust pH to a designated pH			
<b>POOL MONITORING*</b>	125mL sterile	1 D	<b>\$20.00</b>
Total Coliform (Quantitray 18 hour)			
<b>SPA MONITORING*</b>			
Pseudomonas	125mL sterile	1 D	<b>\$20.00</b>
Total Coliform (Quantitray 18 hour)	125mL sterile	1 D	<b>\$20.00</b>

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\* Samples must be received at the laboratory within 24 hours of sampling.







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