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**OFFICE HOURS**  
Monday - Friday:  
8:00 am - 5:00 pm

 **Eastern Analytical, Inc.**  
professional laboratory and drilling services

**ACCREDITED THROUGHOUT NEW ENGLAND**  
An Employee Owned Small Business

 **Eastern Analytical, Inc.**  
professional laboratory and drilling services

## REFERENCE CARD

Holding Times & Preservation

**DATA YOU CAN TRUST,  
SERVICE YOU CAN  
DEPEND ON**

### EASTERN ANALYTICAL, INC. PROVIDES:

- Exceptional Data Quality
- Reliable Turn Around Time
- Courier Service
- Electronic Data Uploads
- Competitive Pricing
- Courteous and Responsive Service

### DRILLING SERVICES

Eastern Analytical, Inc. Field Services utilizes Geoprobe® equipment for soil, soil vapor and groundwater sampling. Well decommissioning service and equipment rentals also available.

### SHORT HOLD TIME PARAMETERS

DETERMINATION	MATRIX	MAXIMUM HOLDING TIME
<b>BACTERIAL TESTS</b>		
Coliform, Total / E. Coli / Fecal	WW, SW	8 Hours
Coliform, Total / E. Coli (P/A)	DW, GW*	30 Hours
Enterococci	DW, GW*	30 Hours
Enterococci	WW, SW	8 Hours
Heterotrophic Plate Count	DW, GW*, SW, WW	8 Hours
<b>INORGANIC TESTS</b>		
Biochemical Oxygen Demand (BOD)	WW	48 Hours
Carbonaceous Biochemical Oxygen Demand (CBOD)	WW	48 Hours
Chlorine, Total Residual	WW, DW	Analyze Immediately
Chlorophyll-a**	SW	24 Hours (Filtration Required)
Color	GW, SW, WW, DW	24 Hours
Ferrous Iron	GW, SW, WW, DW	24 Hours
Hydrogen Ion (pH)	GW, SW, WW, DW	Analyze Immediately
Nitrate (NO3)	GW, SW, WW, DW	48 Hours
Nitrite (NO2)	GW, SW, WW, DW	48 Hours
Odor	WW, DW	24 Hours
Orthophosphate	GW, SW, WW, DW	Filter within 15 minutes, 48 hours
Oxidation Reduction Potential (Probe)	GW, SW, WW, DW	Analyze Immediately
Oxygen, Dissolved (Probe)	GW, SW, WW, DW	Analyze Immediately
Residue, Settleable (SS)   Settleable Solids	GW, SW, WW, DW	48 Hours
Sulfite	WW	Analyze Immediately
Temperature	GW, SW, WW	Analyze Immediately
Turbidity	GW, SW, WW, DW	48 Hours
<b>METALS</b>		
Chromium VI – Method 7196 **	WW, DW, GW	24 hours
<b>Subcontract Parameters **   Advanced Notice Needed for all Subcontracted Parameters   Unable to Receive on Fridays</b>		
Asbestos**	DW	48 Hours
Formaldehyde**	WW	3 days until extraction; 3 days after extraction
Salmonella**	S	8 Hours
Surfactants (MBAS)   Foaming Agents**	WW, DW, GW	48 Hours
Volatile Organics by EPA TO-15, modified**	A	72 Hours (Tedlar Bag)
WET Toxicity, Acute & Chronic**	WW	36 Hours, lab must receive same day sample is collected

DW (Drinking Water), GW (Ground Water), SW (Surface Water), WW (Wastewater), S (Solid) and A (Air)

\* GW wells located around and/or near seepage lagoons will default to the WW hold time requirements.

\*\*Please contact EAI in advance to schedule sample arrival especially when subcontracted parameters are needed.

VOCs

HOLD TIME

SAMPLE VOLUME

CONTAINER

PRESERVATIVE

**AQUEOUS****Blue = Short Hold Time**

Methanol/Ethanol	14 days	2x40 mL	VOC vials	Cool < 6°C
VOC	14 days	2x40 mL	VOC vials	HCl/Cool < 6°C
MA DEP VPH	14 days	2x40 mL	VOC vials	HCl/Cool < 6°C
GRO (8015)	14 days	2x40 mL	VOC vials	HCl/Cool < 6°C
Methane/Ethane/Ethene	14 days	2x40 mL	VOC vials	H2SO4/Cool < 6°C
1,4 Dioxane VOC SIM	14 days	2x40 mL	VOC vials	Cool < 6°C

**Samples should be collected in duplicate for any combination of VOC and GRO or VPH. No headspace.**

**SOIL**

VOC Method 5035	14 days	5 g	20 mL preweighed MeOH vial, 5 mL syringe*
MA DEP VPH	28 days	5 g	20 mL preweighed MeOH vial, 5 mL syringe*
GRO (8015)	14 days	5 g	20 mL preweighed MeOH vial, 5 mL syringe*

**Organics must be collected in glass, not plastic!**

**\*Use syringe with end cap for % solids determination. 20 mL MeOH vials preweighed.**

EXTRACTABLES

**AQUEOUS**

TPH (8100)/DRO (8015)	7 days	1 liter	1 liter Glass	Cool < 6°C
PAH	7 days	1 liter	1 liter Amber Glass	Cool < 6°C
ABN	7 days	1 liter	1 liter Amber Glass	Cool < 6°C
Pesticides/PCBs	7 days	1 liter	1 liter Amber Glass	Cool < 6°C
MA DEP EPH	14 days/40 days	1 liter	1 liter Amber Glass	1:1 HCl pH <2/Cool < 6°C
Oil & Grease 1664A HEM	28 days	1 liter	Glass	Sulfuric Acid/Cool < 6°C
TPH 1664A SGT	28 days	1 liter	Glass	Sulfuric Acid/Cool < 6°C
Ethylene dibromide (EDB) and/ or Dibromochloropropane (DBCP)	14 days	2x40 mL	VOC vials	Sodium Thiosulfate/Cool < 6°C
Haloacetic Acids (HAA5)	14 days	2X60 mL	Amber Glass Vials	Ammonium Chloride/Cool < 6°C

**SOIL**

TPH	14 days	4 oz	4 oz Amber Glass	Cool < 6°C
PAH	14 days	4 oz	4 oz Amber Glass	Cool < 6°C
ABN	14 days	4 oz	4 oz Amber Glass	Cool < 6°C
Pesticides/PCB	14 days	4 oz	4 oz Amber Glass	Cool < 6°C
MA DEP EPH	14 days/40 days	4 oz	4 oz Amber Glass	Cool < 6°C

METALS

ICP/ICP-MS Metals (Aqueous, Dissolved)	180 days	20 mL	2 oz Plastic	Nitric Acid/Cool < 6°C
ICP/ICP-MS Metals (Aqueous, Total)	180 days	125 mL	4 oz Plastic	Nitric Acid/Cool < 6°C
Mercury (Aqueous)	28 days	125 mL	4 oz Plastic	Nitric Acid/Cool < 6°C
<b>Hexavalent Chromium</b>	<b>24 hrs</b>	500 mL	16 oz Plastic	Cool < 6°C
ICP/ICP-MS Metals (Solid)	180 days	4 oz	4 oz Plastic/Glass	Cool < 6°C
Mercury only (Solid)	28 days	4 oz	4 oz Plastic/Glass	Cool < 6°C

WET CHEMISTRY

<b>BOD/CBOD</b>	<b>48 hrs</b>	500 mL	Plastic	Cool < 6°C
<b>pH</b>	<b>Immediate*</b>	25 mL	Plastic	Cool < 6°C
Specific Conductance	28 days	200 mL	Plastic	Cool < 6°C
<b>Turbidity</b>	<b>48 hrs</b>	100 mL	Plastic	Cool < 6°C
Solids (TS,TVS,TSS,TDS)	7 days	500 mL	Plastic	Cool < 6°C
<b>Settleable Solids</b>	<b>48 hrs</b>	1 liter	Plastic	Cool < 6°C
Anions **	28 days	100 mL	Plastic	Cool < 6°C
<b>Nitrate</b>	<b>48 hrs</b>	50 mL	Plastic	Cool < 6°C
<b>Nitrite</b>	<b>48 hrs</b>	50 mL	Plastic	Cool < 6°C
Alkalinity	14 days	250 mL	Plastic	Cool < 6°C
Phenols	28 days	250 mL	Glass	Sulfuric Acid/Cool < 6°C
TOC	28 days	100 mL	Glass	Phosphoric Acid/Cool < 6°C
Total Phosphorus	28 days	100 mL	HDPE	Sulfuric Acid/Cool < 6°C
Ammonia	28 days	125 mL	Plastic/Glass	Sulfuric Acid/Cool < 6°C
TKN	28 days	125 mL	Plastic/Glass	Sulfuric Acid/Cool < 6°C
COD	28 days	20 mL	Plastic/Glass	Sulfuric Acid/Cool < 6°C
Cyanide	14 days	250 mL	Plastic/Glass	Sodium Hydroxide/Cool < 6°C
Sulfide	7 days	250 mL	Plastic	Zinc Acetate/Sodium Hydroxide/Cool < 6°C
<b>Total Residual Chlorine</b>	<b>Immediate*</b>	2x40 mL	VOC vials	Cool < 6°C
<b>Sulfite</b>	<b>Immediate*</b>	2x40 mL	VOC vials	Cool < 6°C
<b>Bacteria</b>	<b>Immediate*</b>	100 mL	Sterile Container	Sodium Thiosulfate/Cool < 6°C
<b>Chlorophyll-a</b>	<b>24 hours</b>	1 liter	Amber Plastic	Cool < 6°C
Perchlorate (Filtering Required)	28 days	125 mL	Plastic	Room Temperature
<b>Microscopic Identification</b>	<b>Immediate*</b>	2x1 liter	Amber Plastic	Cool < 6°C

**\*For samples with immediate hold time, please call us 24 hours in advance of delivery. \*\*Fluoride, Chloride, Bromide, Sulfate**

SUB

Herbicides (Aqueous)	7 days	1 liter	Amber Glass	Cool < 6°C
Herbicides (Soil)	14 days	4 oz	Amber Glass	Cool < 6°C
<b>Surfactants/MBAS (Aqueous)*</b>	<b>48 hours</b>	500 mL	Plastic	Cool < 6°C
<b>Formaldehyde (Aqueous)*</b>	<b>72 hours</b>	1 liter	Amber Glass	Cool < 6°C
Cold Vapor Mercury (Aqueous)	28 days	125 mL	Plastic	Nitric Acid

**\*These subcontracted parameters can not be received on Fridays due to short hold time.**