



November 29, 2022

Rachel Savarie, P.E.  
New York State Department of Environmental Conservation  
Division of Environmental Remediation, Remedial Bureau C  
625 Broadway, 12<sup>th</sup> Floor  
Albany, NY 12233-7014

Work Plan Revision 1 for Sampling of Emerging Contaminants  
Elementis SRL (formerly Summit Research Labs), Site No. 336079  
Town of Deerpark, Orange County

Dear Ms. Savarie:

Cardinal Resources has prepared this revised work plan for sampling emerging contaminants on behalf of Elementis SRL Huguenot, in response to your letters dated August 26, 2022, and November 2, 2022. The work plan provides a description of wells proposed for sampling, sampling methods, equipment selection, the selected laboratory, and reporting. This revision addresses three comments raised in your letter of November 2:

- Include Plant Well 2 (northwest area of site) in the sampling program
- Use Method 1633 for PFAS/PFOS analysis
- Provide a map that shows the wells to be sampled

Recommended Wells for Sampling and Selection Rationale

Refer to the attached Figure 1, which depicts the locations of the three monitoring wells and one plant well to be sampled:

- Plant Well 2
- MW-8
- MW-10
- MW-11R

The wells are representative of groundwater conditions across the site both in terms of degree of impact and gradient.

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## Sampling Methods

The general sampling methods, as outlined in the NYSDEC guidance document *Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS), Draft, June 2022*, and other sources will be followed:

- Acceptable sampling equipment will be made of stainless steel, high density polyethylene (HDPE), polypropylene, silicone, acetate, and PVC. Preferred sample containers are HDPE. Sampling equipment and sample containers will be protected from contact with aluminum foil, low density polyethylene (LDPE), glass, or polytetrafluoroethylene (PTFE, or Teflon™).
- Equipment will be decontaminated with a tap water and nonphosphate detergent (Alconox) wash, tap water rinse, and deionized water rinse.
- Water ice only, no chemical ice packs, will be used to chill and transport samples.
- No food or drink containers will be allowed near sampling equipment or samples.
- Sampling personnel will put on clean nitrile gloves when filling and sealing the sample bottles.
- Sampling personnel will avoid GORE-TEX clothing or other clothing such as rainwear that may have been treated with PFAS-containing waterproof materials. Cotton clothing is preferred, laundered without fabric softener.
- Sampling personnel will avoid use of cosmetics, moisturizers, hand cream, sunscreen, and insect repellent on the day of sampling.

Monitoring wells will be purged and sampled using a stainless-steel body QED Sample Pro bladder pump (Attachment A); QED HDPE disposable pump bladders; PFAS-free EPDM o-rings; and fused dual air and sample HDPE tubing (fresh tubing for each sample location). Purge water will be placed in drums designated by Elementis for short-term staging before appropriate disposal. As Attachment A indicates, the QED Sample Pro bladder pump is suitable for PFAS/PFOS sampling when EPDM o-rings are used. The wells will be purged using low-flow techniques (between 100 and 200 milliliters per minute [mL/min]) to stability for pH, temperature, dissolved oxygen, specific conductance, and oxidation/reduction potential (redox). A flow-through multiparameter instrument will be used, and the goal is to obtain three consecutive readings of the field parameters within the following ranges:

- $\pm 1.0$  degree centigrade ( $^{\circ}\text{C}$ ) for temperature
- $\pm 10$  percent (%) for dissolved oxygen
- $\pm 10$  millivolts (mV) for redox potential
- $\pm 3\%$  for conductivity
- $\pm 0.1$  for pH

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When stability is reached, the outlet tubing will be disconnected from the flow-through cell and the sample will be pumped into the sample containers provided by the laboratory. Samples will be capped, labeled, recorded on the chain of custody, and placed in a cooler with ice to maintain  $4 \pm 2^{\circ}$  Celsius.

Sampling procedures for the plant well will reflect guidance in Appendix E of the *Sampling, Analysis, and Assessment of Per- and Polyfluoroalkyl Substances (PFAS), Draft, June 2022*. The team will locate the pressure tank and establish the sample location as close to the well pump as possible, such as a spigot at the pressure tank. Prior to sampling, a faucet downstream of the pressure tank (e.g., interior sink) will be run until the well pump comes on and a decrease in water temperature is measured. The well will be purged for 15 minutes before collecting the sample, using the techniques described above. The sample will be labeled and recorded on the chain of custody as described above.

### Selected Laboratory and Analysis

Pace Analytical Laboratory New England, East Long Meadow, Massachusetts, is the laboratory selected for analysis. The laboratory does contract work for PFAS/PFOS analysis with NYSDEC. The laboratory will use EPA Method 1633 for these analyses. According to the Pace representative, a laboratory must be approved by EPA Method 537.1 or 533 in potable water to be certified to perform any other PFAS isotope dilution analyses on non-potable water and solids. Pace holds these accreditations. Therefore, Pace is currently approved by NYSDOH to be performing EPA Method 1633 without additional certification specific to that method. Pace is moving forward with certification for EPA Method 1633 in New York as a primary state, so that the certification can be used through reciprocity agreements by other states.

In addition to collection of water samples from Plant Well 2, MW-8, MW-10, and MW11R, four other samples will be collected for quality assurance / quality control purposes:

- One equipment blank (bladder pump)
- One field duplicate
- One matrix spike/one matrix spike duplicate (2 samples total)

A category B data package and electronic data deliverable will be provided by the laboratory.

### Reporting

A concise report will be prepared when laboratory results are available. According to the laboratory, the standard turnaround time for PFAS/PFOS analyses is 30 work days. We anticipate issuance of a report within 10 to 15 work days after receipt of

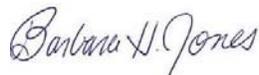
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the analytical package. The report will describe conditions and procedures, summarize the results in a table format, and provide a map and coordinates of the wells sampled.

We anticipate that this letter sampling and analysis workplan meets your approval. Upon your written approval, we will initiate the sampling program within 15 work days. Please do not hesitate to contact us over the telephone (412-374-0989, Ext. 102), or through email [bjones@cardinalres.com](mailto:bjones@cardinalres.com) with technical questions.

Sincerely,

CARDINAL RESOURCES, INC.



Barbara H. Jones, Principal

cc: Joanne Vicaretti, Elementis, NY HSE Manager  
Joseph Andriac, Elementis, NY Site Manager  
Ana Martin, Elementis, Global HSE Director

Attachments

Figure 1, EC Sampling Locations  
Attachment A - Sample Pro Data Sheet  
Attachment B - Laboratory NYSDOH Certifications



**Attachment A**  
**Sample Pro Data Sheet**

## PORTABLE GROUNDWATER SAMPLING PUMP

# The Most Reliable Portable Sampling Pump is PFAS-Free

# Sample Pro®

## *The Original PFAS-Free Bladder Pump*



## The Sample Pro pump and tubing are and have always been PFAS-Free\*

The Sample Pro® Portable Pump, the first pump developed specifically to bring the advantages of lowflow sampling to sites requiring portable pumps, has been shown to be PFAS-Free. Sample analysis by an independent laboratory showed no detections for 24 different Per- and Polyfluoroalkyl Substances at detection limits much lower than the US EPA Health Advisory of 70 nanograms per liter (parts per trillion)\*.

***The Sample Pro Pump not only delivers consistent low flow rates, it's easy to disassemble without tools, simple to clean and truly field rugged.***

The Sample Pro portable pump combines the unparalleled sample accuracy and high reliability of a bladder pump in an easy to use design. It runs cool and can run dry without damage, and can be operated using any QED MicroPurge® controller options- 12-volt integral compressor, a Honda-powered gasoline-driven compressor,

an external compressed air cylinder, or a lightweight backpack with integral CO<sub>2</sub> cylinder.

The Sample Pro pump's reliability and low maintenance make it more economical to use. Its twist-open design makes it easy to change the disposable bladder in seconds. The compact 14.75" length fits in a bucket for easy cleaning between uses.

Other innovations include interchangeable tubing connection options- conventional compression fittings or a "push to lock" head that eliminates fittings, perfect for use with disposable tubing. The Sample Pro pump's rugged, all stainless construction will stand up to tough portable use. With thousands in service and nearly two decades of proven performance, the Sample Pro pump is the most reliable portable sampling pump ever made.

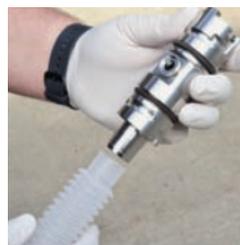
\*See details on the testing procedure and results on the back page.



**Ideal for PFAS Sampling**  
Tested for purity



**Simple to Service**  
Twist-open design with disposable bladders



**Nearly Unbreakable**  
Stainless steel construction stands up to tough use

© Product designs and specifications are subject to change without notice. User is responsible for determining suitability of product.

# PFAS-Free Groundwater Sampling



## Specifications:

### MATERIALS

Body	303 Stainless Steel
Inlet and Discharge Housing	303 Stainless Steel
Bladder	Polyethylene
O-Rings*	Viton® or EPDM

### DIMENSIONS

Diameter	1.75 in. (44.5 mm)
Length	14.75 in. (375 mm) w/ Push-In Fittings 16.5 in. (419 mm) w/ Compression Fittings 12.12 in. (308 mm) Bottom of pump to centerline of inlet
Weight	4.25 lbs. (1.93 kg)
Air Tubing	1/4 in. (6.4 mm) OD x 3/16 in. (4.7 mm) ID
Discharge Tubing	3/8 in. (9.5 mm) OD x 1/4 in. (6.4 mm) ID or 1/4 in. (6.4 mm) OD x 3/16 (4.7 mm) ID
Maximum Lift	250 ft. (76 m)
Flow Rates	3/8 in. OD Discharge Tubing, 10ft. submergence: 1.6 Lpm @ 25 ft. 0.75 Lpm @ 100 ft.  1/4 in. OD Discharge Tubing, 10 ft. submergence: 1.25 Lpm @ 25 ft. (7.6m) 0.55 Lpm @ 100 ft. (30m)
Pump Volume	100 mL / 3.38 oz.

\* For PFAS sampling applications where materials requirements prohibit the use of Viton (FKM) fluoropolymer O-rings, QED has optional EPDM O-ring kits available. The kit contains 10 complete O-ring sets and can be ordered using Part Number 38362-B.

### Sampling Consultant's Kit

The Sample Pro Consultant's Kit includes accessories and supplies in a rugged case that also carries and protects the pump.

The kit includes all supplies, accessories, and replacement parts necessary to sample 10 wells, packed in a 9x9x20" heavy-duty structural foam tool box for easy portability on-site.



## Testing of QED Sample Pro® for Per-and Polyfluoroalkyl Substances

### Introduction

Per-and Polyfluoroalkyl Substances or PFAS have been identified as emerging contaminants in ground water. Site owners and their environmental consultants are being tasked with sampling for the presence of these chemicals at extremely low concentration levels, down to several parts per trillion (or nanograms per liter). As part of this sampling, concerns have been raised that any sampling equipment that contains fluoropolymers of Polytetrafluoroethylene (e.g., \*Teflon®, such as PTFE, FEP and PFA) and fluoropolymer elastomers (e.g., Viton® or FKM) could leach PFAS into ground water samples. This has already led some users to exclude the use of any sampling equipment containing fluoropolymers or fluoroelastomers when sampling for PFAS.

QED conducted a test of the Sample Pro® 1.75" Portable Bladder Pump to determine if any PFAS would leach from materials in the pump. We also tested our commonly used sample tubing materials for the same purpose.

### Test Method and Results

The Sample Pro 1.75-inch portable bladder pump was tested as a complete assembly (pump body, housing and check balls, polyethylene bladder and Viton O-rings). The test was conducted by soaking for 24 hours in a stainless steel test fixture (5 gallons / 20 liters volume) and then collecting samples from the stand tube. The samples were analyzed for 24 different PFAS compounds using US EPA Method 537M, with method detection limits below 1 ng/L and reporting limits of 5 ng/L for most PFAS. In addition, QED also tested all of our twin-bonded tubing materials – polyethylene (PE), Teflon-lined PE and all Teflon tubing – by soaking each tubing material for 48-72 hours directly in sample bottles.

The results for the Sample Pro pump and all three tubing materials were non-detect for all 24 PFAS above the stated Method Detection Limits (MDLs). Based on this, our QED Sample Pro pump and any standard QED tubing should not contribute any PFAS to ground water samples taken with these products.

*\*Teflon® is a registered trademark of E. I. du Pont de Nemours and Company or its affiliates. It is used herein to describe a range of various fluorocarbon plastic resin formulations.*

For more detailed information visit:  
[www.qedenv.com/PFAStesting](http://www.qedenv.com/PFAStesting)

**Attachment B**  
**Laboratory NYSDOH Certifications**

NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER



Expires 12:01 AM April 01, 2023  
Issued April 01, 2022  
Revised August 09, 2022

**CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE**

*Issued in accordance with and pursuant to section 502 Public Health Law of New York State*

**MR. TOD KOPYSCINSKI**  
**CONTEST, A PACE ANALYTICAL LABORATORY**  
**39 SPRUCE STREET**  
**EAST LONGMEADOW, MA 01028**

**NY Lab Id No: 10899**

*is hereby APPROVED as an Environmental Laboratory in conformance with the  
National Environmental Laboratory Accreditation Conference Standards (2016) for the category  
ENVIRONMENTAL ANALYSES POTABLE WATER*

*All approved analytes are listed below:*

**Fuel Additives**

Methyl tert-butyl ether EPA 524.2  
Naphthalene EPA 524.2

**Metals I**

Arsenic, Total EPA 200.8 Rev. 5.4  
Barium, Total EPA 200.7 Rev. 4.4  
Cadmium, Total EPA 200.8 Rev. 5.4  
Chromium, Total EPA 200.7 Rev. 4.4  
Copper, Total EPA 200.8 Rev. 5.4  
Iron, Total EPA 200.7 Rev. 4.4  
Lead, Total EPA 200.8 Rev. 5.4  
Manganese, Total EPA 200.7 Rev. 4.4  
Mercury, Total EPA 245.1 Rev. 3.0  
Selenium, Total EPA 200.8 Rev. 5.4  
Silver, Total EPA 200.7 Rev. 4.4  
Zinc, Total EPA 200.8 Rev. 5.4

**Metals II**

Aluminum, Total EPA 200.7 Rev. 4.4

**Metals II**

Antimony, Total EPA 200.8 Rev. 5.4  
Beryllium, Total EPA 200.8 Rev. 5.4  
Molybdenum, Total EPA 200.7 Rev. 4.4  
Nickel, Total EPA 200.7 Rev. 4.4  
Thallium, Total EPA 200.8 Rev. 5.4  
Vanadium, Total EPA 200.7 Rev. 4.4

**Metals III**

Boron, Total EPA 200.7 Rev. 4.4  
Calcium, Total EPA 200.7 Rev. 4.4  
Magnesium, Total EPA 200.7 Rev. 4.4  
Potassium, Total EPA 200.7 Rev. 4.4  
Sodium, Total EPA 200.7 Rev. 4.4

**Microextractables**

1,2-Dibromo-3-chloropropane, Low Level EPA 504.1  
1,2-Dibromoethane, Low Level EPA 504.1

**Miscellaneous**

Odor SM 21-23 2150 B (-97)  
Organic Carbon, Dissolved SM 21-23 5310B (-00)  
Organic Carbon, Total SM 21-23 5310B (-00)  
Turbidity EPA 180.1 Rev. 2.0

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**Non-Metals**

Alkalinity	SM 21-23 2320B (-97)
Calcium Hardness	EPA 200.7 Rev. 4.4
Chloride	SM 21-23 4500-Cl- B (-97)
	EPA 300.0 Rev. 2.1
Color	SM 21-23 2120B (-01)
Cyanide	SM 20, 21-23 4500-CN E
Fluoride, Total	EPA 300.0 Rev. 2.1
	SM 21-23 4500-F C (-97)
Nitrate (as N)	NECi Nitrate-Reductase
Nitrite (as N)	NECi Nitrate-Reductase
	SM 21-23 4500-NO2 B (-00)
Orthophosphate (as P)	EPA 300.0 Rev. 2.1
Solids, Total Dissolved	SM 21-23 2540C (-97)
Sulfate (as SO4)	ASTM D516-07, 11, 16
	EPA 300.0 Rev. 2.1

**Perfluorinated Alkyl Acids**

ADONA	EPA 537.1
Hexafluoropropylene Oxide Dimer Acid	EPA 533
NETFOSAA	EPA 537.1
NMEFOSAA	EPA 537.1
Nonafluoro-3,6-Dioxaheptanoic Acid	EPA 533
Perfluorotridecanoic Acid (PFTRDA)	EPA 537.1
Perfluorodecanoic Acid (PFDA)	EPA 533
Perfluoro-3-Methoxypropanoic Acid	EPA 533
Perfluoro-4-Methoxybutanoic Acid	EPA 533
Perfluorobutanesulfonic Acid (PFBS)	EPA 533
Perfluorobutanoic Acid (PFBA)	EPA 533
Perfluorododecanoic Acid (PFDOA)	EPA 533
	EPA 537.1
Perfluoroheptanesulfonic Acid (PFHPS)	EPA 533
Perfluoroheptanoic Acid (PFHPA)	EPA 533
	EPA 537.1
Perfluorohexanesulfonic Acid (PFHXS)	EPA 533
	EPA 537.1
Perfluorohexanoic Acid (PFHXA)	EPA 533
	EPA 537.1
Perfluorononanoic Acid (PFNA)	EPA 533

**Perfluorinated Alkyl Acids**

11CL-PF3OUDS	EPA 533
	EPA 537.1
4:2FTS	EPA 533
6:2FTS	EPA 533
8:2FTS	EPA 533
9CL-PF3ONS	EPA 533
	EPA 537.1
ADONA	EPA 533

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ENVIRONMENTAL ANALYSES POTABLE WATER  
All approved analytes are listed below:*

**Perfluorinated Alkyl Acids**

Perfluorononanoic Acid (PFNA)	EPA 537.1
Perfluorooctanesulfonic Acid (PFOS)	EPA 533
	EPA 537.1
Perfluorooctanoic Acid (PFOA)	EPA 533
	EPA 537.1
Perfluoropentanesulfonic Acid (PFPEs)	EPA 533
Perfluoropentanoic Acid (PFPEA)	EPA 533
Perfluorotetradecanoic Acid (PFTA)	EPA 537.1
Perfluoroundecanoic Acid (PFUNA)	EPA 533
	EPA 537.1
PFEESA	EPA 533

**Trihalomethanes**

Bromodichloromethane	EPA 524.2
Bromoform	EPA 524.2
Chloroform	EPA 524.2
Dibromochloromethane	EPA 524.2
Total Trihalomethanes	EPA 524.2

**Volatile Aromatics**

1,2,3-Trichlorobenzene	EPA 524.2
1,2,4-Trichlorobenzene	EPA 524.2
1,2,4-Trimethylbenzene	EPA 524.2
1,2-Dichlorobenzene	EPA 524.2
1,3,5-Trimethylbenzene	EPA 524.2
1,3-Dichlorobenzene	EPA 524.2

**Volatile Aromatics**

1,4-Dichlorobenzene	EPA 524.2
2-Chlorotoluene	EPA 524.2
4-Chlorotoluene	EPA 524.2
Benzene	EPA 524.2
Bromobenzene	EPA 524.2
Chlorobenzene	EPA 524.2
Ethyl benzene	EPA 524.2
Hexachlorobutadiene	EPA 524.2
Isopropylbenzene	EPA 524.2
n-Butylbenzene	EPA 524.2
n-Propylbenzene	EPA 524.2
p-Isopropyltoluene (P-Cymene)	EPA 524.2
sec-Butylbenzene	EPA 524.2
Styrene	EPA 524.2
tert-Butylbenzene	EPA 524.2
Toluene	EPA 524.2
Total Xylenes	EPA 524.2

**Volatile Halocarbons**

1,1,1,2-Tetrachloroethane	EPA 524.2
1,1,1-Trichloroethane	EPA 524.2
1,1,2,2-Tetrachloroethane	EPA 524.2
1,1,2-Trichloroethane	EPA 524.2
1,1-Dichloroethane	EPA 524.2
1,1-Dichloroethene	EPA 524.2

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ENVIRONMENTAL ANALYSES POTABLE WATER  
All approved analytes are listed below:*

**Volatile Halocarbons**

1,1-Dichloropropene	EPA 524.2
1,2,3-Trichloropropane	EPA 524.2
1,2-Dichloroethane	EPA 524.2
1,2-Dichloropropane	EPA 524.2
1,3-Dichloropropane	EPA 524.2
2,2-Dichloropropane	EPA 524.2
Bromochloromethane	EPA 524.2
Bromomethane	EPA 524.2
Carbon tetrachloride	EPA 524.2
Chloroethane	EPA 524.2
Chloromethane	EPA 524.2
cis-1,2-Dichloroethene	EPA 524.2
cis-1,3-Dichloropropene	EPA 524.2
Dibromomethane	EPA 524.2
Dichlorodifluoromethane	EPA 524.2
Methylene chloride	EPA 524.2
Tetrachloroethene	EPA 524.2
trans-1,2-Dichloroethene	EPA 524.2
trans-1,3-Dichloropropene	EPA 524.2
Trichloroethene	EPA 524.2
Trichlorofluoromethane	EPA 524.2
Vinyl chloride	EPA 524.2

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ENVIRONMENTAL ANALYSES NON POTABLE WATER  
All approved analytes are listed below:*

**Acrylates**

Acrolein (Propenal)	EPA 624.1
Acrylonitrile	EPA 8260D
	EPA 624.1

**Amines**

1,2-Diphenylhydrazine	EPA 8270E
2-Nitroaniline	EPA 8270E
3-Nitroaniline	EPA 8270E
4-Chloroaniline	EPA 8270E
4-Nitroaniline	EPA 8270E
Aniline	EPA 8270E
Pyridine	EPA 625.1
	EPA 8270E

**Benzidines**

3,3'-Dichlorobenzidine	EPA 625.1
	EPA 8270E
Benzidine	EPA 625.1
	EPA 8270E

**Chlorinated Hydrocarbon Pesticides**

4,4'-DDD	EPA 8081B
	EPA 608.3
4,4'-DDE	EPA 8081B
	EPA 608.3
4,4'-DDT	EPA 8081B

**Chlorinated Hydrocarbon Pesticides**

4,4'-DDT	EPA 608.3
Aldrin	EPA 8081B
	EPA 608.3
alpha-BHC	EPA 8081B
	EPA 608.3
beta-BHC	EPA 8081B
	EPA 608.3
Chlordane Total	EPA 8081B
	EPA 608.3
delta-BHC	EPA 8081B
	EPA 608.3
Dieldrin	EPA 8081B
	EPA 608.3
Endosulfan I	EPA 8081B
	EPA 608.3
Endosulfan II	EPA 8081B
	EPA 608.3
Endosulfan sulfate	EPA 8081B
	EPA 608.3
Endrin	EPA 8081B
	EPA 608.3
Endrin aldehyde	EPA 8081B
	EPA 608.3
Heptachlor	EPA 8081B

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*All approved analytes are listed below:*

**Chlorinated Hydrocarbon Pesticides**

Heptachlor	EPA 608.3
Heptachlor epoxide	EPA 8081B
	EPA 608.3
Lindane	EPA 8081B
	EPA 608.3
Methoxychlor	EPA 8081B
	EPA 608.3
Toxaphene	EPA 8081B
	EPA 608.3

**Chlorophenoxy Acid Pesticides**

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
2,4-DB	EPA 8151A
Dalapon	EPA 8151A
Dicamba	EPA 8151A
Dichloroprop	EPA 8151A
Dinoseb	EPA 8151A

**Chlorinated Hydrocarbons**

1,2,3-Trichlorobenzene	EPA 8260D
1,2,4,5-Tetrachlorobenzene	EPA 8270E
1,2,4-Trichlorobenzene	EPA 625.1
	EPA 8270E
2-Chloronaphthalene	EPA 625.1
	EPA 8270E
Hexachlorobenzene	EPA 625.1
	EPA 8270E
Hexachlorobutadiene	EPA 625.1
	EPA 8270E
Hexachlorocyclopentadiene	EPA 625.1
	EPA 8270E
Hexachloroethane	EPA 625.1
	EPA 8270E

**Demand**

Biochemical Oxygen Demand	SM 5210B-2016
Carbonaceous BOD	SM 5210B-2016
Chemical Oxygen Demand	EPA 410.4, Rev. 2.0 (1993)

**Dissolved Gases**

Ethane	RSK-175
	RSK-175
Ethene (Ethylene)	RSK-175
	RSK-175
Methane	RSK-175
	RSK-175

**Fuel Oxygenates**

Di-isopropyl ether	EPA 8260D
Ethanol	EPA 624.1
	EPA 8015C

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**MR. TOD KOPYSCINSKI**  
**CONTEST, A PACE ANALYTICAL LABORATORY**  
**39 SPRUCE STREET**  
**EAST LONGMEADOW, MA 01028**

**NY Lab Id No: 10899**

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**Fuel Oxygenates**

Methyl tert-butyl ether	EPA 8260D EPA 624.1
tert-amyl methyl ether (TAME)	EPA 8260D
tert-butyl alcohol	EPA 8260D EPA 624.1
tert-butyl ethyl ether (ETBE)	EPA 8260D

**Haloethers**

2,2'-Oxybis(1-chloropropane)	EPA 625.1 EPA 8270E
4-Bromophenylphenyl ether	EPA 625.1 EPA 8270E
4-Chlorophenylphenyl ether	EPA 625.1 EPA 8270E
Bis(2-chloroethoxy)methane	EPA 625.1 EPA 8270E
Bis(2-chloroethyl)ether	EPA 625.1 EPA 8270E

**Low Level Polynuclear Aromatics**

Acenaphthene Low Level	EPA 8270E SIM
Acenaphthylene Low Level	EPA 8270E SIM
Anthracene Low Level	EPA 8270E SIM
Benzo(a)anthracene Low Level	EPA 8270E SIM
Benzo(a)pyrene Low Level	EPA 8270E SIM
Benzo(b)fluoranthene Low Level	EPA 8270E SIM

**Low Level Polynuclear Aromatics**

Benzo(g,h,i)perylene Low Level	EPA 8270E SIM
Benzo(k)fluoranthene Low Level	EPA 8270E SIM
Chrysene Low Level	EPA 8270E SIM
Dibenzo(a,h)anthracene Low Level	EPA 8270E SIM
Fluoranthene Low Level	EPA 8270E SIM
Fluorene Low Level	EPA 8270E SIM
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270E SIM
Naphthalene Low Level	EPA 8270E SIM
Phenanthrene Low Level	EPA 8270E SIM
Pyrene Low Level	EPA 8270E SIM

**Metals I**

Barium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Cadmium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B EPA 200.8, Rev. 5.4 (1994)
Calcium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D
Chromium, Total	EPA 200.7, Rev. 4.4 (1994) EPA 6010D EPA 6020B

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<b>Metals I</b>		<b>Metals I</b>	
Chromium, Total	EPA 200.8, Rev. 5.4 (1994)	Silver, Total	EPA 6010D
Copper, Total	EPA 200.7, Rev. 4.4 (1994)		EPA 6020B
	EPA 6010D		EPA 200.8, Rev. 5.4 (1994)
	EPA 6020B	Sodium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 200.8, Rev. 5.4 (1994)		EPA 6010D
Iron, Total	EPA 200.7, Rev. 4.4 (1994)	<b>Metals II</b>	
	EPA 6010D	Aluminum, Total	EPA 200.7, Rev. 4.4 (1994)
Lead, Total	EPA 200.7, Rev. 4.4 (1994)		EPA 6010D
	EPA 6010D		EPA 6020B
	EPA 6020B	Antimony, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 200.8, Rev. 5.4 (1994)		EPA 6010D
Magnesium, Total	EPA 200.7, Rev. 4.4 (1994)		EPA 6020B
	EPA 6010D		EPA 200.8, Rev. 5.4 (1994)
Manganese, Total	EPA 200.7, Rev. 4.4 (1994)	Arsenic, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D		EPA 6010D
	EPA 6020B		EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)		EPA 200.8, Rev. 5.4 (1994)
Nickel, Total	EPA 200.7, Rev. 4.4 (1994)	Beryllium, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D		EPA 6010D
	EPA 6020B		EPA 6020B
	EPA 200.8, Rev. 5.4 (1994)		EPA 200.8, Rev. 5.4 (1994)
Potassium, Total	EPA 200.7, Rev. 4.4 (1994)	Chromium VI	EPA 7196A
	EPA 6010D		SM 3500-Cr B-2011
Silver, Total	EPA 200.7, Rev. 4.4 (1994)	Mercury, Total	EPA 245.1, Rev. 3.0 (1994)

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<b>Metals II</b>		<b>Metals III</b>	
Mercury, Total	EPA 7470A	Thallium, Total	EPA 6020B
Selenium, Total	EPA 200.7, Rev. 4.4 (1994)		EPA 200.8, Rev. 5.4 (1994)
	EPA 6010D	Tin, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6020B		EPA 6010D
	EPA 200.8, Rev. 5.4 (1994)	Titanium, Total	EPA 200.7, Rev. 4.4 (1994)
Vanadium, Total	EPA 200.7, Rev. 4.4 (1994)	<b>Mineral</b>	
	EPA 6010D	Alkalinity	SM 2320B-2011
	EPA 6020B	Calcium Hardness	EPA 200.7, Rev. 4.4 (1994)
	EPA 200.8, Rev. 5.4 (1994)	Chloride	SM 4500-Cl- B-2011
Zinc, Total	EPA 200.7, Rev. 4.4 (1994)		EPA 300.0, Rev. 2.1 (1993)
	EPA 6010D	Fluoride, Total	EPA 300.0, Rev. 2.1 (1993)
	EPA 6020B	Sulfate (as SO <sub>4</sub> )	ASTM D516-16
	EPA 200.8, Rev. 5.4 (1994)		EPA 300.0, Rev. 2.1 (1993)
<b>Metals III</b>		<b>Miscellaneous</b>	
Cobalt, Total	EPA 200.7, Rev. 4.4 (1994)	Boron, Total	EPA 200.7, Rev. 4.4 (1994)
	EPA 6010D		EPA 6010D
	EPA 6020B	Bromide	EPA 300.0, Rev. 2.1 (1993)
	EPA 200.8, Rev. 5.4 (1994)	Color	SM 2120B-2011
Molybdenum, Total	EPA 200.7, Rev. 4.4 (1994)	Cyanide, Total	EPA 9014
	EPA 6010D		SM 4500-CN E-2016
	EPA 6020B	Oil and Grease Total Recoverable	EPA 1664B
	EPA 200.8, Rev. 5.4 (1994)	Organic Carbon, Total	SM 5310B-2014
Thallium, Total	EPA 200.7, Rev. 4.4 (1994)	Phenols	EPA 420.1 (Rev. 1978)
	EPA 6010D	Specific Conductance	SM 2510B-2011

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**ENVIRONMENTAL ANALYSES NON POTABLE WATER**

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**Miscellaneous**

Sulfide (as S) SM 4500-S2- F-2011  
Turbidity EPA 180.1, Rev. 2.0 (1993)

**Nitroaromatics and Isophorone**

2,4-Dinitrotoluene EPA 625.1  
EPA 8270E  
2,6-Dinitrotoluene EPA 625.1  
EPA 8270E  
Isophorone EPA 625.1  
EPA 8270E  
Nitrobenzene EPA 625.1  
EPA 8270E

**Nitrosoamines**

N-Nitrosodimethylamine EPA 625.1  
EPA 8270E  
N-Nitrosodi-n-propylamine EPA 625.1  
EPA 8270E  
N-Nitrosodiphenylamine EPA 625.1  
EPA 8270E

**Nutrient**

Ammonia (as N) SM 4500-NH3 C-2011  
EPA 350.1, Rev. 2.0 (1993)  
Kjeldahl Nitrogen, Total SM 4500-NH3 C-2011  
Nitrate (as N) EPA 300.0, Rev. 2.1 (1993)

**Nutrient**

Nitrate (as N) NECi N07-0003  
Nitrate-Nitrite (as N) NECi N07-0003  
Nitrite (as N) EPA 300.0, Rev. 2.1 (1993)  
NECi N07-0003  
SM 4500-NO2 B-2011  
Orthophosphate (as P) EPA 300.0, Rev. 2.1 (1993)  
SM 4500-P E-2011  
Phosphorus, Total SM 4500-P E-2011

**Petroleum Hydrocarbons**

Diesel Range Organics EPA 8015D  
EPA 8015C  
Gasoline Range Organics EPA 8015D  
EPA 8015C

**Phthalate Esters**

Benzyl butyl phthalate EPA 625.1  
EPA 8270E  
Bis(2-ethylhexyl) phthalate EPA 625.1  
EPA 8270E  
Diethyl phthalate EPA 625.1  
EPA 8270E  
Dimethyl phthalate EPA 625.1  
EPA 8270E  
Di-n-butyl phthalate EPA 625.1  
EPA 8270E

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**Phthalate Esters**

Di-n-octyl phthalate      EPA 625.1  
EPA 8270E

**Polychlorinated Biphenyls**

Aroclor 1016 (PCB-1016)      EPA 8082A  
EPA 608.3  
Aroclor 1221 (PCB-1221)      EPA 8082A  
EPA 608.3  
Aroclor 1232 (PCB-1232)      EPA 8082A  
EPA 608.3  
Aroclor 1242 (PCB-1242)      EPA 8082A  
EPA 608.3  
Aroclor 1248 (PCB-1248)      EPA 8082A  
EPA 608.3  
Aroclor 1254 (PCB-1254)      EPA 8082A  
EPA 608.3  
Aroclor 1260 (PCB-1260)      EPA 8082A  
EPA 608.3  
Aroclor 1262 (PCB-1262)      EPA 8082A  
Aroclor 1268 (PCB-1268)      EPA 8082A

**Polynuclear Aromatics**

Anthracene      EPA 625.1  
EPA 8270E  
Benzo(a)anthracene      EPA 625.1  
EPA 8270E  
Benzo(a)pyrene      EPA 625.1  
EPA 8270E  
Benzo(b)fluoranthene      EPA 625.1  
EPA 8270E  
Benzo(g,h,i)perylene      EPA 625.1  
EPA 8270E  
Benzo(k)fluoranthene      EPA 625.1  
EPA 8270E  
Chrysene      EPA 625.1  
EPA 8270E  
Dibenzo(a,h)anthracene      EPA 625.1  
EPA 8270E  
Fluoranthene      EPA 625.1  
EPA 8270E  
Fluorene      EPA 625.1  
EPA 8270E  
Indeno(1,2,3-cd)pyrene      EPA 625.1  
EPA 8270E  
Naphthalene      EPA 625.1  
EPA 8270E

**Polynuclear Aromatics**

Acenaphthene      EPA 625.1  
EPA 8270E  
Acenaphthylene      EPA 625.1  
EPA 8270E

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**Polynuclear Aromatics**

Phenanthrene	EPA 625.1
	EPA 8270E
Pyrene	EPA 625.1
	EPA 8270E

**Priority Pollutant Phenols**

2,4,5-Trichlorophenol	EPA 625.1
	EPA 8270E
2,4,6-Trichlorophenol	EPA 625.1
	EPA 8270E
2,4-Dichlorophenol	EPA 625.1
	EPA 8270E
2,4-Dimethylphenol	EPA 625.1
	EPA 8270E
2,4-Dinitrophenol	EPA 625.1
	EPA 8270E
2-Chlorophenol	EPA 625.1
	EPA 8270E
2-Methyl-4,6-dinitrophenol	EPA 625.1
	EPA 8270E
2-Methylphenol	EPA 625.1
	EPA 8270E
2-Nitrophenol	EPA 625.1
	EPA 8270E
4-Chloro-3-methylphenol	EPA 625.1

**Priority Pollutant Phenols**

4-Chloro-3-methylphenol	EPA 8270E
4-Nitrophenol	EPA 625.1
	EPA 8270E
Cresols, Total	EPA 625.1
	EPA 8270E
Pentachlorophenol	EPA 625.1
	EPA 8270E
Phenol	EPA 625.1
	EPA 8270E

**Residue**

Settleable Solids	SM 2540 F-2015
Solids, Total	SM 2540 B-2015
Solids, Total Dissolved	SM 2540 C-2015
Solids, Total Suspended	SM 2540 D-2015

**Semi-Volatile Organics**

1,2-Dichlorobenzene, Semi-volatile	EPA 8270E
1,3-Dichlorobenzene, Semi-volatile	EPA 8270E
1,4-Dichlorobenzene, Semi-volatile	EPA 8270E
2-Methylnaphthalene	EPA 625.1
	EPA 8270E
Acetophenone	EPA 625.1
	EPA 8270E
Benzoic Acid	EPA 8270E
Dibenzofuran	EPA 8270E

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**Volatile Aromatics**

1,2,4-Trichlorobenzene, Volatile	EPA 8260D
1,2,4-Trimethylbenzene	EPA 8260D
1,2-Dichlorobenzene	EPA 8260D
	EPA 624.1
	EPA 524.2
1,3,5-Trimethylbenzene	EPA 8260D
1,3-Dichlorobenzene	EPA 8260D
	EPA 624.1
1,4-Dichlorobenzene	EPA 8260D
	EPA 624.1
2-Chlorotoluene	EPA 8260D
4-Chlorotoluene	EPA 8260D
Benzene	EPA 8260D
	EPA 624.1
	EPA 524.2
Bromobenzene	EPA 8260D
Chlorobenzene	EPA 8260D
	EPA 624.1
	EPA 524.2
Ethyl benzene	EPA 8260D
	EPA 624.1
Isopropylbenzene	EPA 8260D
m/p-Xylenes	EPA 8260D
	EPA 624.1

**Volatile Aromatics**

Naphthalene, Volatile	EPA 8260D
	EPA 624.1
n-Butylbenzene	EPA 8260D
n-Propylbenzene	EPA 8260D
o-Xylene	EPA 8260D
	EPA 624.1
p-Isopropyltoluene (P-Cymene)	EPA 8260D
sec-Butylbenzene	EPA 8260D
Styrene	EPA 8260D
	EPA 624.1
tert-Butylbenzene	EPA 8260D
Toluene	EPA 8260D
	EPA 624.1
	EPA 524.2
Total Xylenes	EPA 8260D
	EPA 624.1

**Volatile Halocarbons**

1,1,1,2-Tetrachloroethane	EPA 8260D
1,1,1-Trichloroethane	EPA 8260D
	EPA 624.1
1,1,2,2-Tetrachloroethane	EPA 8260D
	EPA 624.1
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260D
	EPA 624.1

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**Volatile Halocarbons**

1,1,2-Trichloroethane	EPA 8260D EPA 624.1
1,1-Dichloroethane	EPA 8260D EPA 624.1
1,1-Dichloroethene	EPA 8260D EPA 624.1
1,1-Dichloropropene	EPA 8260D
1,2,3-Trichloropropane	EPA 8260D
1,2-Dibromo-3-chloropropane	EPA 8260D
1,2-Dibromoethane	EPA 8260D
1,2-Dichloroethane	EPA 8260D EPA 624.1 EPA 524.2
1,2-Dichloropropane	EPA 8260D EPA 624.1
1,3-Dichloropropane	EPA 8260D
2,2-Dichloropropane	EPA 8260D
2-Chloroethylvinyl ether	EPA 624.1
Bromochloromethane	EPA 8260D
Bromodichloromethane	EPA 8260D EPA 624.1
Bromoform	EPA 8260D EPA 624.1
Bromomethane	EPA 8260D

**Volatile Halocarbons**

Bromomethane	EPA 624.1
Carbon tetrachloride	EPA 8260D EPA 624.1
Chloroethane	EPA 8260D EPA 624.1
Chloroform	EPA 8260D EPA 624.1
Chloromethane	EPA 524.2 EPA 8260D EPA 624.1
cis-1,2-Dichloroethene	EPA 8260D EPA 624.1
cis-1,3-Dichloropropene	EPA 8260D EPA 624.1
Dibromochloromethane	EPA 8260D EPA 624.1
Dibromomethane	EPA 8260D
Dichlorodifluoromethane	EPA 8260D EPA 624.1
Hexachlorobutadiene, Volatile	EPA 8260D
Methylene chloride	EPA 8260D EPA 624.1 EPA 524.2
Tetrachloroethene	EPA 8260D

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**NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER**



Expires 12:01 AM April 01, 2023  
Issued April 01, 2022  
Revised August 09, 2022

**CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE**

*Issued in accordance with and pursuant to section 502 Public Health Law of New York State*

**MR. TOD KOPYSCINSKI  
CONTEST, A PACE ANALYTICAL LABORATORY  
39 SPRUCE STREET  
EAST LONGMEADOW, MA 01028**

**NY Lab Id No: 10899**

*is hereby APPROVED as an Environmental Laboratory in conformance with the  
National Environmental Laboratory Accreditation Conference Standards (2016) for the category  
ENVIRONMENTAL ANALYSES NON POTABLE WATER  
All approved analytes are listed below:*

**Volatile Halocarbons**

Tetrachloroethene	EPA 624.1
trans-1,2-Dichloroethene	EPA 8260D
	EPA 624.1
trans-1,3-Dichloropropene	EPA 8260D
	EPA 624.1
trans-1,4-Dichloro-2-butene	EPA 8260D
Trichloroethene	EPA 8260D
	EPA 624.1
Trichlorofluoromethane	EPA 8260D
	EPA 624.1
Vinyl chloride	EPA 8260D
	EPA 624.1

**Volatiles Organics**

1,4-Dioxane	EPA 8260D
	EPA 8270E SIM
2-Butanone (Methylethyl ketone)	EPA 8260D
2-Hexanone	EPA 8260D
4-Methyl-2-Pentanone	EPA 8260D
	EPA 624.1
	EPA 524.2
Acetone	EPA 8260D
	EPA 624.1
	EPA 524.2
Carbon Disulfide	EPA 8260D

**Volatiles Organics**

Cyclohexane	EPA 8260D
Di-ethyl ether	EPA 8260D
Ethylene Glycol	EPA 8015C
Methyl acetate	EPA 8260D
Methyl cyclohexane	EPA 8260D
Tetrahydrofuran	EPA 624.1
	EPA 524.2
Vinyl acetate	EPA 8260D

**Sample Preparation Methods**

SM 4500-P B(5)-2011
EPA 5030C
SM 4500-CN B-2016 and C-201
EPA 3015A
EPA 3005A
EPA 3510C
SM 4500-NH3 B-2011
SM 4500-N Org B-2011 or C-20
EPA 9010C

**Serial No.: 65455**

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE*

*All approved analytes are listed below:*

**Acrylates**

Acrylonitrile EPA 8260D

**Amines**

1,2-Diphenylhydrazine EPA 8270E  
2-Nitroaniline EPA 8270E  
3-Nitroaniline EPA 8270E  
4-Chloroaniline EPA 8270E  
4-Nitroaniline EPA 8270E  
Aniline EPA 8270E

**Benzidines**

3,3'-Dichlorobenzidine EPA 8270E  
Benzidine EPA 8270E

**Characteristic Testing**

Free Liquids EPA 9095B  
Ignitability EPA 1030  
EPA 1010A  
TCLP EPA 1311

**Chlorinated Hydrocarbon Pesticides**

4,4'-DDD EPA 8081B  
4,4'-DDE EPA 8081B  
4,4'-DDT EPA 8081B  
Aldrin EPA 8081B  
alpha-BHC EPA 8081B  
beta-BHC EPA 8081B

**Chlorinated Hydrocarbon Pesticides**

Chlordane Total EPA 8081B  
delta-BHC EPA 8081B  
Dieldrin EPA 8081B  
Endosulfan I EPA 8081B  
Endosulfan II EPA 8081B  
Endosulfan sulfate EPA 8081B  
Endrin EPA 8081B  
Endrin aldehyde EPA 8081B  
Heptachlor EPA 8081B  
Heptachlor epoxide EPA 8081B  
Lindane EPA 8081B  
Methoxychlor EPA 8081B  
Pentachloronitrobenzene EPA 8270E  
Toxaphene EPA 8081B

**Chlorinated Hydrocarbons**

1,2,3-Trichlorobenzene EPA 8260D  
1,2,4,5-Tetrachlorobenzene EPA 8270E  
1,2,4-Trichlorobenzene EPA 8270E  
2-Chloronaphthalene EPA 8270E  
Hexachlorobenzene EPA 8270E  
Hexachlorobutadiene EPA 8270E  
Hexachlorocyclopentadiene EPA 8270E  
Hexachloroethane EPA 8270E

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE  
All approved analytes are listed below:*

**Chlorophenoxy Acid Pesticides**

2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
2,4-DB	EPA 8151A
Dalapon	EPA 8151A
Dicamba	EPA 8151A
Dichloroprop	EPA 8151A
Dinoseb	EPA 8151A
MCPA	EPA 8151A
MCPP	EPA 8151A

**Haloethers**

2,2'-Oxybis(1-chloropropane)	EPA 8270E
4-Bromophenylphenyl ether	EPA 8270E
4-Chlorophenylphenyl ether	EPA 8270E
Bis(2-chloroethoxy)methane	EPA 8270E
Bis(2-chloroethyl)ether	EPA 8270E

**Low Level Polynuclear Aromatic Hydrocarbons**

Acenaphthene Low Level	EPA 8270E SIM
Acenaphthylene Low Level	EPA 8270E SIM
Anthracene Low Level	EPA 8270E SIM
Benzo(a)anthracene Low Level	EPA 8270E SIM
Benzo(a)pyrene Low Level	EPA 8270E SIM
Benzo(b)fluoranthene Low Level	EPA 8270E SIM
Benzo(g,h,i)perylene Low Level	EPA 8270E SIM

**Low Level Polynuclear Aromatic Hydrocarbons**

Benzo(k)fluoranthene Low Level	EPA 8270E SIM
Chrysene Low Level	EPA 8270E SIM
Dibenzo(a,h)anthracene Low Level	EPA 8270E SIM
Fluoranthene Low Level	EPA 8270E SIM
Fluorene Low Level	EPA 8270E SIM
Indeno(1,2,3-cd)pyrene Low Level	EPA 8270E SIM
Naphthalene Low Level	EPA 8270E SIM
Phenanthrene Low Level	EPA 8270E SIM
Pyrene Low Level	EPA 8270E SIM

**Metals I**

Barium, Total	EPA 6010D EPA 6020B
Cadmium, Total	EPA 6010D EPA 6020B
Calcium, Total	EPA 6010D
Chromium, Total	EPA 6010D EPA 6020B
Copper, Total	EPA 6010D EPA 6020B
Iron, Total	EPA 6010D EPA 6020B
Lead, Total	EPA 6010D EPA 6020B
Magnesium, Total	EPA 6010D

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE  
All approved analytes are listed below:*

<b>Metals I</b>		<b>Metals II</b>	
Manganese, Total	EPA 6010D	Zinc, Total	EPA 6020B
	EPA 6020B		
Nickel, Total	EPA 6010D	<b>Metals III</b>	
	EPA 6020B	Cobalt, Total	EPA 6010D
Potassium, Total	EPA 6010D		EPA 6020B
Silver, Total	EPA 6010D	Molybdenum, Total	EPA 6010D
	EPA 6020B		EPA 6020B
Sodium, Total	EPA 6010D	Thallium, Total	EPA 6010D
			EPA 6020B
<b>Metals II</b>		Tin, Total	EPA 6010D
Aluminum, Total	EPA 6010D	<b>Miscellaneous</b>	
	EPA 6020B	Boron, Total	EPA 6010D
Antimony, Total	EPA 6010D	Cyanide, Total	EPA 9014
	EPA 6020B	Organic Carbon, Total	Lloyd Kahn Method
Arsenic, Total	EPA 6010D		EPA 9060A
	EPA 6020B	<b>Nitroaromatics and Isophorone</b>	
Beryllium, Total	EPA 6010D	2,4-Dinitrotoluene	EPA 8270E
	EPA 6020B	2,6-Dinitrotoluene	EPA 8270E
Chromium VI	EPA 7196A	Isophorone	EPA 8270E
Mercury, Total	EPA 7471B	Nitrobenzene	EPA 8270E
Selenium, Total	EPA 6010D	Pyridine	EPA 8270E
	EPA 6020B	<b>Nitrosoamines</b>	
Vanadium, Total	EPA 6010D	N-Nitrosodimethylamine	EPA 8270E
	EPA 6020B	N-Nitrosodi-n-propylamine	EPA 8270E
Zinc, Total	EPA 6010D		

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**Nitrosoamines**

N-Nitrosodiphenylamine EPA 8270E

**Petroleum Hydrocarbons**

Diesel Range Organics EPA 8015D

EPA 8015C

Gasoline Range Organics EPA 8015D

EPA 8015C

**Phthalate Esters**

Benzyl butyl phthalate EPA 8270E

Bis(2-ethylhexyl) phthalate EPA 8270E

Diethyl phthalate EPA 8270E

Dimethyl phthalate EPA 8270E

Di-n-butyl phthalate EPA 8270E

Di-n-octyl phthalate EPA 8270E

**Polychlorinated Biphenyls**

Aroclor 1016 (PCB-1016) EPA 8082A

Aroclor 1016 (PCB-1016) in Oil EPA-600/4-81-045

EPA 8082A

Aroclor 1221 (PCB-1221) EPA 8082A

Aroclor 1221 (PCB-1221) in Oil EPA-600/4-81-045

EPA 8082A

Aroclor 1232 (PCB-1232) EPA 8082A

Aroclor 1232 (PCB-1232) in Oil EPA-600/4-81-045

EPA 8082A

**Polychlorinated Biphenyls**

Aroclor 1242 (PCB-1242) EPA 8082A

Aroclor 1242 (PCB-1242) in Oil EPA-600/4-81-045

EPA 8082A

Aroclor 1248 (PCB-1248) EPA 8082A

Aroclor 1248 (PCB-1248) in Oil EPA-600/4-81-045

EPA 8082A

Aroclor 1254 (PCB-1254) EPA 8082A

Aroclor 1254 (PCB-1254) in Oil EPA-600/4-81-045

EPA 8082A

Aroclor 1260 (PCB-1260) EPA 8082A

Aroclor 1260 (PCB-1260) in Oil EPA-600/4-81-045

EPA 8082A

Aroclor 1262 (PCB-1262) EPA 8082A

Aroclor 1262 (PCB-1262) in Oil EPA-600/4-81-045

EPA 8082A

Aroclor 1268 (PCB-1268) EPA 8082A

Aroclor 1268 (PCB-1268) in Oil EPA-600/4-81-045

EPA 8082A

**Polynuclear Aromatic Hydrocarbons**

Acenaphthene EPA 8270E

Acenaphthylene EPA 8270E

Anthracene EPA 8270E

Benzo(a)anthracene EPA 8270E

Benzo(a)pyrene EPA 8270E

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**ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE**  
All approved analytes are listed below:

**Polynuclear Aromatic Hydrocarbons**

Benzo(b)fluoranthene	EPA 8270E
Benzo(g,h,i)perylene	EPA 8270E
Benzo(k)fluoranthene	EPA 8270E
Chrysene	EPA 8270E
Dibenzo(a,h)anthracene	EPA 8270E
Fluoranthene	EPA 8270E
Fluorene	EPA 8270E
Indeno(1,2,3-cd)pyrene	EPA 8270E
Naphthalene	EPA 8270E
Phenanthrene	EPA 8270E
Pyrene	EPA 8270E

**Priority Pollutant Phenols**

4-Nitrophenol	EPA 8270E
Pentachlorophenol	EPA 8270E
Phenol	EPA 8270E

**Semi-Volatile Organics**

1,2-Dichlorobenzene, Semi-volatile	EPA 8270E
1,3-Dichlorobenzene, Semi-volatile	EPA 8270E
1,4-Dichlorobenzene, Semi-volatile	EPA 8270E
2-Methylnaphthalene	EPA 8270E
Acetophenone	EPA 8270E
Benzoic Acid	EPA 8270E
Dibenzofuran	EPA 8270E

**Priority Pollutant Phenols**

2,4,5-Trichlorophenol	EPA 8270E
2,4,6-Trichlorophenol	EPA 8270E
2,4-Dichlorophenol	EPA 8270E
2,4-Dimethylphenol	EPA 8270E
2,4-Dinitrophenol	EPA 8270E
2-Chlorophenol	EPA 8270E
2-Methyl-4,6-dinitrophenol	EPA 8270E
2-Methylphenol	EPA 8270E
2-Nitrophenol	EPA 8270E
3-Methylphenol	EPA 8270E
4-Chloro-3-methylphenol	EPA 8270E
4-Methylphenol	EPA 8270E

**Volatile Aromatics**

1,2,4-Trichlorobenzene, Volatile	EPA 8260D
1,2,4-Trimethylbenzene	EPA 8260D
1,2-Dichlorobenzene	EPA 8260D
1,3,5-Trimethylbenzene	EPA 8260D
1,3-Dichlorobenzene	EPA 8260D
1,4-Dichlorobenzene	EPA 8260D
2-Chlorotoluene	EPA 8260D
4-Chlorotoluene	EPA 8260D
Benzene	EPA 8260D
Bromobenzene	EPA 8260D
Chlorobenzene	EPA 8260D
Ethyl benzene	EPA 8260D

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE  
All approved analytes are listed below:*

**Volatile Aromatics**

Isopropylbenzene	EPA 8260D
m/p-Xylenes	EPA 8260D
Naphthalene, Volatile	EPA 8260D
n-Butylbenzene	EPA 8260D
n-Propylbenzene	EPA 8260D
o-Xylene	EPA 8260D
p-Isopropyltoluene (P-Cymene)	EPA 8260D
sec-Butylbenzene	EPA 8260D
Styrene	EPA 8260D
tert-Butylbenzene	EPA 8260D
Toluene	EPA 8260D
Total Xylenes	EPA 8260D

**Volatile Halocarbons**

1,1,1,2-Tetrachloroethane	EPA 8260D
1,1,1-Trichloroethane	EPA 8260D
1,1,2,2-Tetrachloroethane	EPA 8260D
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260D
1,1,2-Trichloroethane	EPA 8260D
1,1-Dichloroethane	EPA 8260D
1,1-Dichloroethene	EPA 8260D
1,1-Dichloropropene	EPA 8260D
1,2,3-Trichloropropane	EPA 8260D
1,2-Dibromo-3-chloropropane	EPA 8260D
1,2-Dibromoethane	EPA 8260D

**Volatile Halocarbons**

1,2-Dichloroethane	EPA 8260D
1,2-Dichloropropane	EPA 8260D
1,3-Dichloropropane	EPA 8260D
2,2-Dichloropropane	EPA 8260D
Bromochloromethane	EPA 8260D
Bromodichloromethane	EPA 8260D
Bromoform	EPA 8260D
Bromomethane	EPA 8260D
Carbon tetrachloride	EPA 8260D
Chloroethane	EPA 8260D
Chloroform	EPA 8260D
Chloromethane	EPA 8260D
cis-1,2-Dichloroethene	EPA 8260D
cis-1,3-Dichloropropene	EPA 8260D
Dibromochloromethane	EPA 8260D
Dibromomethane	EPA 8260D
Dichlorodifluoromethane	EPA 8260D
Hexachlorobutadiene, Volatile	EPA 8260D
Methylene chloride	EPA 8260D
Tetrachloroethene	EPA 8260D
trans-1,2-Dichloroethene	EPA 8260D
trans-1,3-Dichloropropene	EPA 8260D
trans-1,4-Dichloro-2-butene	EPA 8260D
Trichloroethene	EPA 8260D

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ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE  
All approved analytes are listed below:*

**Volatile Halocarbons**

Trichlorofluoromethane EPA 8260D  
Vinyl chloride EPA 8260D

**Sample Preparation Methods**

EPA 3540C

EPA 3546

EPA 3051A

EPA 3060A

EPA 9010C

**Volatile Organics**

1,4-Dioxane EPA 8260D  
2-Butanone (Methylethyl ketone) EPA 8260D  
2-Hexanone EPA 8260D  
4-Methyl-2-Pentanone EPA 8260D  
Acetone EPA 8260D  
Carbon Disulfide EPA 8260D  
Cyclohexane EPA 8260D  
Di-ethyl ether EPA 8260D  
Ethylene Glycol EPA 8015C  
Methyl acetate EPA 8260D  
Methyl cyclohexane EPA 8260D  
Methyl tert-butyl ether EPA 8260D  
tert-butyl alcohol EPA 8260D  
Tetrahydrofuran EPA 8260D  
Vinyl acetate EPA 8260D

**Sample Preparation Methods**

EPA 5035A-L

EPA 5035A-H

EPA 3580A

EPA 3005A

EPA 3050B

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**ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE**  
*All approved subcategories and/or analytes are listed below:*

**Miscellaneous**

Lead in Dust Wipes	EPA 6010D
Lead in Paint	EPA 6010D

**Sample Preparation Methods**

EPA 3050B
EPA 3051A

NEW  
YORK  
STATE

Department  
of Health

**Serial No.: 64509**

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**ENVIRONMENTAL ANALYSES AIR AND EMISSIONS**  
All approved analytes are listed below:*

<b>Acrylates</b>		<b>Metals II</b>	
Acetonitrile	EPA TO-17	Beryllium, Total	NIOSH 7303
	EPA TO-15	Mercury, Total	NIOSH 6009
Acrylonitrile	EPA TO-17	<b>Metals III</b>	
	EPA TO-15	Chromium, Total	NIOSH 7303
Methyl methacrylate	EPA TO-15	<b>Miscellaneous</b>	
<b>Chlorinated Hydrocarbon Pesticides</b>		Formaldehyde	EPA TO-15
4,4'-DDD	EPA TO-4A	Particulate Matter	40 CFR PART 50 APP J (PM10)
4,4'-DDE	EPA TO-4A	<b>Polychlorinated Biphenyls</b>	
4,4'-DDT	EPA TO-4A	PCBs and Aroclors	EPA TO-10A
Aiachlor	EPA TO-4A		EPA TO-4A
Aldrin	EPA TO-4A		NIOSH 5503
alpha-BHC	EPA TO-4A	<b>Polynuclear Aromatics</b>	
beta-BHC	EPA TO-4A	Acenaphthene	EPA TO-13A
Chlordane Total	EPA TO-4A	Acenaphthylene	EPA TO-13A
Dieldrin	EPA TO-4A	Anthracene	EPA TO-13A
Heptachlor	EPA TO-4A	Benzo(a)anthracene	EPA TO-13A
Heptachlor epoxide	EPA TO-4A	Benzo(a)pyrene	EPA TO-13A
Lindane	EPA TO-4A	Benzo(b)fluoranthene	EPA TO-13A
<b>Chlorinated Hydrocarbons</b>		Benzo(g,h,i)perylene	EPA TO-13A
1,2,4-Trichlorobenzene	EPA TO-17	Benzo(k)fluoranthene	EPA TO-13A
	EPA TO-14A	Chrysene	EPA TO-13A
	EPA TO-15	Dibenzo(a,h)anthracene	EPA TO-13A
Hexachlorobutadiene	EPA TO-14A	Fluoranthene	EPA TO-13A
	EPA TO-15		

**Serial No.: 64510**

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**NEW YORK STATE DEPARTMENT OF HEALTH  
WADSWORTH CENTER**



Expires 12:01 AM April 01, 2023  
Issued April 01, 2022

**CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE**

*Issued in accordance with and pursuant to section 502 Public Health Law of New York State*

**MR. TOD KOPYSCINSKI**  
**CONTEST, A PACE ANALYTICAL LABORATORY**  
**39 SPRUCE STREET**  
**EAST LONGMEADOW, MA 01028**

NY Lab Id No: 10899

*is hereby APPROVED as an Environmental Laboratory in conformance with the  
National Environmental Laboratory Accreditation Conference Standards (2016) for the category  
ENVIRONMENTAL ANALYSES AIR AND EMISSIONS  
All approved analytes are listed below:*

**Polynuclear Aromatics**

Fluorene	EPA TO-13A
Indeno(1,2,3-cd)pyrene	EPA TO-13A
Naphthalene	EPA TO-13A
	EPA TO-17
	EPA TO-14A
	EPA TO-15
Phenanthrene	EPA TO-13A
Pyrene	EPA TO-13A

**Purgeable Aromatics**

1,4-Dichlorobenzene	EPA TO-15
2-Chlorotoluene	EPA TO-17
4-Chlorotoluene	EPA TO-17
Benzene	EPA TO-17
	EPA TO-14A
	EPA TO-15
Bromobenzene	EPA TO-17
Chlorobenzene	EPA TO-17
	EPA TO-14A
	EPA TO-15
Ethyl benzene	EPA TO-17
	EPA TO-14A
	EPA TO-15
Isopropylbenzene	EPA TO-17
	EPA TO-15
m/p-Xylenes	EPA TO-17
	EPA TO-15
n-Butylbenzene	EPA TO-17
n-Propylbenzene	EPA TO-17
o-Xylene	EPA TO-17
	EPA TO-15
p-Isopropyltoluene (P-Cymene)	EPA TO-17
sec-Butylbenzene	EPA TO-17
Styrene	EPA TO-17

**Purgeable Aromatics**

1,2,3-Trichlorobenzene	EPA TO-17
1,2,4-Trimethylbenzene	EPA TO-17
	EPA TO-14A
	EPA TO-15
1,2-Dichlorobenzene	EPA TO-17
	EPA TO-14A
	EPA TO-15
1,3,5-Trimethylbenzene	EPA TO-17
	EPA TO-14A
	EPA TO-15
1,3-Dichlorobenzene	EPA TO-17
	EPA TO-14A
	EPA TO-15
1,4-Dichlorobenzene	EPA TO-17
	EPA TO-14A

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**Purgeable Aromatics**

Styrene	EPA TO-14A
	EPA TO-15
tert-Butylbenzene	EPA TO-17
Toluene	EPA TO-17
	EPA TO-14A
	EPA TO-15
Total Xylenes	EPA TO-17
	EPA TO-14A
	EPA TO-15

**Purgeable Halocarbons**

1,1-Dichloroethane	EPA TO-14A
	EPA TO-15
1,1-Dichloroethene	EPA TO-17
	EPA TO-14A
	EPA TO-15
1,1-Dichloropropene	EPA TO-17
1,2,3-Trichloropropane	EPA TO-17
1,2-Dibromo-3-chloropropane	EPA TO-14A
	EPA TO-15
1,2-Dibromoethane	EPA TO-17
	EPA TO-14A
	EPA TO-15
1,2-Dichloroethane	EPA TO-17
	EPA TO-14A
	EPA TO-15
1,2-Dichloropropane	EPA TO-17
	EPA TO-14A
	EPA TO-15
1,3-Dichloropropane	EPA TO-17
Bromodichloromethane	EPA TO-17
	EPA TO-14A
	EPA TO-15
Bromoform	EPA TO-15
Bromomethane	EPA TO-14A

**Purgeable Halocarbons**

1,1,1,2-Tetrachloroethane	EPA TO-17
1,1,1-Trichloroethane	EPA TO-17
	EPA TO-14A
	EPA TO-15
1,1,2,2-Tetrachloroethane	EPA TO-17
	EPA TO-14A
	EPA TO-15
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA TO-17
	EPA TO-14A
	EPA TO-15
1,1,2-Trichloroethane	EPA TO-17
	EPA TO-14A
	EPA TO-15
1,1-Dichloroethane	EPA TO-17

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**Purgeable Halocarbons**

Bromomethane	EPA TO-15
Carbon tetrachloride	EPA TO-17
	EPA TO-14A
	EPA TO-15
Chloroethane	EPA TO-14A
	EPA TO-15
Chloroform	EPA TO-17
	EPA TO-14A
	EPA TO-15
Chloromethane	EPA TO-14A
	EPA TO-15
cis-1,2-Dichloroethene	EPA TO-17
	EPA TO-14A
	EPA TO-15
cis-1,3-Dichloropropene	EPA TO-17
	EPA TO-14A
	EPA TO-15
Dibromochloromethane	EPA TO-17
	EPA TO-15
Dichlorodifluoromethane	EPA TO-17
	EPA TO-14A
	EPA TO-15
Methylene chloride	EPA TO-17
	EPA TO-14A

**Purgeable Halocarbons**

Methylene chloride	EPA TO-15
Tetrachloroethene	EPA TO-17
	EPA TO-14A
	EPA TO-15
trans-1,2-Dichloroethene	EPA TO-17
	EPA TO-14A
	EPA TO-15
trans-1,3-Dichloropropene	EPA TO-17
	EPA TO-14A
	EPA TO-15
Trichloroethene	EPA TO-17
	EPA TO-14A
	EPA TO-15
Trichlorofluoromethane	EPA TO-17
	EPA TO-14A
	EPA TO-15
Vinyl chloride	EPA TO-14A
	EPA TO-15

**Volatile Chlorinated Organics**

Benzyl chloride	EPA TO-14A
	EPA TO-15

**Volatile Organics**

1,2-Dichlorotetrafluoroethane	EPA TO-14A
	EPA TO-15

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All approved analytes are listed below:*

**Volatile Organics**

1,3-Butadiene	EPA TO-14A
	EPA TO-15
1,4-Dioxane	EPA TO-15
2,2,4-Trimethylpentane	EPA TO-15
2-Butanone (Methylethyl ketone)	EPA TO-17
	EPA TO-15
4-Methyl-2-Pentanone	EPA TO-17
	EPA TO-15
Acetone	EPA TO-17
	EPA TO-15
Acrolein (Propenal)	EPA TO-15
Carbon Disulfide	EPA TO-17
	EPA TO-15
Cyclohexane	EPA TO-15
Hexane	EPA TO-15
Isopropanol	EPA TO-15
Methyl tert-butyl ether	EPA TO-17
	EPA TO-15
n-Heptane	EPA TO-15
tert-butyl alcohol	EPA TO-15
Vinyl acetate	EPA TO-15



Department  
of Health

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**ENVIRONMENTAL ANALYSES AIR AND EMISSIONS**  
*All approved subcategories and/or analytes are listed below:*

**Metals I**

Lead, Total

NIOSH 7303



Department  
of Health

**Serial No.: 64511**

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