



State of Florida  
 Department of Health, Bureau of Public Health Laboratories  
 This is to certify that

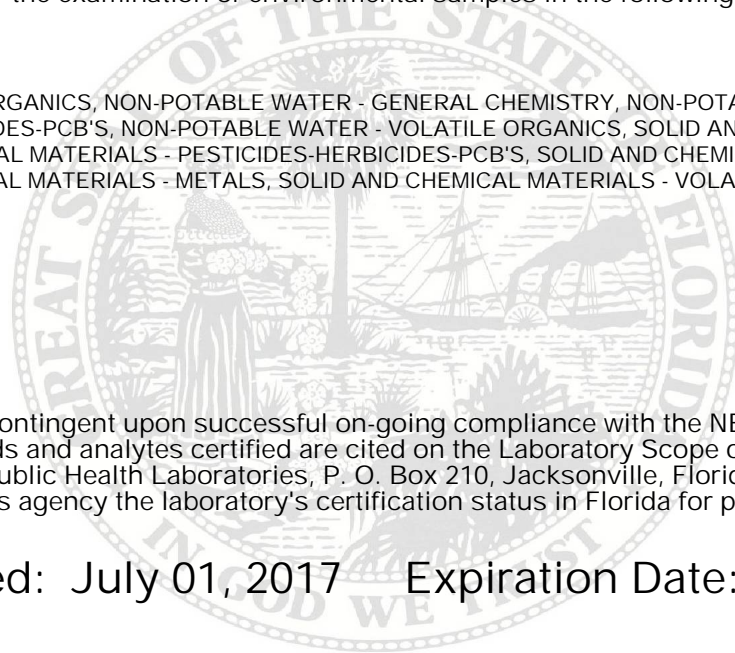


E87646

EMPIRICAL LABORATORIES, LLC.  
 621 MAINSTREAM DRIVE SUITE 270  
 NASHVILLE, TN 37228

has complied with Florida Administrative Code 64E-1,  
 for the examination of environmental samples in the following categories

NON-POTABLE WATER - EXTRACTABLE ORGANICS, NON-POTABLE WATER - GENERAL CHEMISTRY, NON-POTABLE WATER - METALS,  
 NON-POTABLE WATER - PESTICIDES-HERBICIDES-PCB'S, NON-POTABLE WATER - VOLATILE ORGANICS, SOLID AND CHEMICAL MATERIALS -  
 EXTRACTABLE ORGANICS, SOLID AND CHEMICAL MATERIALS - PESTICIDES-HERBICIDES-PCB'S, SOLID AND CHEMICAL MATERIALS - GENERAL  
 CHEMISTRY, SOLID AND CHEMICAL MATERIALS - METALS, SOLID AND CHEMICAL MATERIALS - VOLATILE ORGANICS



Continued certification is contingent upon successful on-going compliance with the NELAC Standards and FAC Rule 64E-1 regulations. Specific methods and analytes certified are cited on the Laboratory Scope of Accreditation for this laboratory and are on file at the Bureau of Public Health Laboratories, P. O. Box 210, Jacksonville, Florida 32231. Clients and customers are urged to verify with this agency the laboratory's certification status in Florida for particular methods and analytes.

Date Issued: July 01, 2017      Expiration Date: June 30, 2018



*Susanne Crowe*

Susanne Crowe, MHA  
 Acting Chief, Bureau of Public Health Laboratories  
 DH Form 1697, 7/04

NON-TRANSFERABLE E87646-26-07/01/2017  
 Supersedes all previously issued certificates

**Laboratory Scope of Accreditation**

**Attachment to Certificate #: E87646-26, expiration date June 30, 2018. This listing of accredited analytes should be used only when associated with a valid certificate.**

State Laboratory ID: **E87646**EPA Lab Code: **TN00004****(615) 345-1115****E87646****Empirical Laboratories, LLC.****621 Mainstream Drive****Suite 270****Nashville, TN 37228**Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
1,1,1,2-Tetrachloroethane	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,1,1-Trichloroethane	EPA 624	Volatile Organics	NELAP	12/22/2015
1,1,1-Trichloroethane	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,1,2,2-Tetrachloroethane	EPA 624	Volatile Organics	NELAP	12/22/2015
1,1,2,2-Tetrachloroethane	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,1,2-Trichloroethane	EPA 624	Volatile Organics	NELAP	12/22/2015
1,1,2-Trichloroethane	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,1-Dichloroethane	EPA 624	Volatile Organics	NELAP	12/22/2015
1,1-Dichloroethane	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,1-Dichloroethylene	EPA 624	Volatile Organics	NELAP	12/22/2015
1,1-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,1-Dichloropropene	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,2,3-Trichlorobenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,2,3-Trichloropropane	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,2,4,5-Tetrachlorobenzene	EPA 8270	Extractable Organics	NELAP	12/22/2015
1,2,4-Trichlorobenzene	EPA 625	Extractable Organics	NELAP	12/22/2015
1,2,4-Trichlorobenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,2,4-Trichlorobenzene	EPA 8270	Extractable Organics	NELAP	12/22/2015
1,2,4-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8011	Volatile Organics	NELAP	12/22/2015
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8011	Volatile Organics	NELAP	12/22/2015
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,2-Dichlorobenzene	EPA 624	Volatile Organics	NELAP	12/22/2015
1,2-Dichlorobenzene	EPA 625	Extractable Organics	NELAP	12/22/2015
1,2-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,2-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	12/22/2015
1,2-Dichloroethane	EPA 624	Volatile Organics	NELAP	12/22/2015
1,2-Dichloroethane	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,2-Dichloropropane	EPA 624	Volatile Organics	NELAP	12/22/2015
1,2-Dichloropropane	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,2-Diphenylhydrazine (as Azobenzene)	EPA 8270	Extractable Organics	NELAP	12/22/2015
1,3,5-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,3,5-Trinitrobenzene (1,3,5-TNB)	EPA 8330	Extractable Organics	NELAP	12/22/2015

**Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.**

**Issue Date: 7/1/2017****Expiration Date: 6/30/2018**



### Laboratory Scope of Accreditation

Attachment to Certificate #: **E87646-26**, expiration date **June 30, 2018**. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87646**

EPA Lab Code: **TN00004**

(615) 345-1115

**E87646**

**Empirical Laboratories, LLC.**

**621 Mainstream Drive**

**Suite 270**

**Nashville, TN 37228**

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Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
1,3-Dichlorobenzene	EPA 624	Volatile Organics	NELAP	12/22/2015
1,3-Dichlorobenzene	EPA 625	Extractable Organics	NELAP	12/22/2015
1,3-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,3-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	12/22/2015
1,3-Dichloropropane	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,3-Dinitrobenzene (1,3-DNB)	EPA 8330	Extractable Organics	NELAP	12/22/2015
1,4-Dichlorobenzene	EPA 624	Volatile Organics	NELAP	12/22/2015
1,4-Dichlorobenzene	EPA 625	Extractable Organics	NELAP	12/22/2015
1,4-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,4-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	12/22/2015
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270	Extractable Organics	NELAP	12/22/2015
1-Chlorohexane	EPA 8260	Volatile Organics	NELAP	12/22/2015
1-Methylnaphthalene	EPA 8270	Extractable Organics	NELAP	12/22/2015
2,2-Dichloropropane	EPA 8260	Volatile Organics	NELAP	12/22/2015
2,2'-Oxybis(1-chloropropane),bis(2-Chloro-1-methylethyl)ether (fka bis(2-Chloroisopropyl) ether)	EPA 625	Extractable Organics	NELAP	12/22/2015
2,2'-Oxybis(1-chloropropane),bis(2-Chloro-1-methylethyl)ether (fka bis(2-Chloroisopropyl) ether)	EPA 8270	Extractable Organics	NELAP	12/22/2015
2,3,4,6-Tetrachlorophenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
2,4,5-T	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
2,4,5-Trichlorophenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
2,4,6-Trichlorophenol	EPA 625	Extractable Organics	NELAP	12/22/2015
2,4,6-Trichlorophenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
2,4,6-Trinitrotoluene (2,4,6-TNT)	EPA 8330	Extractable Organics	NELAP	12/22/2015
2,4-D	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
2,4-DB	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
2,4-Dichlorophenol	EPA 625	Extractable Organics	NELAP	12/22/2015
2,4-Dichlorophenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
2,4-Dimethylphenol	EPA 625	Extractable Organics	NELAP	12/22/2015
2,4-Dimethylphenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
2,4-Dinitrophenol	EPA 625	Extractable Organics	NELAP	12/22/2015
2,4-Dinitrophenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
2,4-Dinitrotoluene (2,4-DNT)	EPA 625	Extractable Organics	NELAP	12/22/2015
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270	Extractable Organics	NELAP	12/22/2015
2,4-Dinitrotoluene (2,4-DNT)	EPA 8330	Extractable Organics	NELAP	12/22/2015

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**Issue Date: 7/1/2017**

**Expiration Date: 6/30/2018**

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State Laboratory ID: **E87646**

EPA Lab Code:

**TN00004****(615) 345-1115****E87646****Empirical Laboratories, LLC.****621 Mainstream Drive****Suite 270****Nashville, TN 37228**Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
2,6-Dichlorophenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
2,6-Dinitrotoluene (2,6-DNT)	EPA 625	Extractable Organics	NELAP	12/22/2015
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270	Extractable Organics	NELAP	12/22/2015
2,6-Dinitrotoluene (2,6-DNT)	EPA 8330	Extractable Organics	NELAP	12/22/2015
2-Amino-4,6-dinitrotoluene (2-am-dnt)	EPA 8330	Extractable Organics	NELAP	12/22/2015
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260	Volatile Organics	NELAP	12/22/2015
2-Chloroethyl vinyl ether	EPA 624	Volatile Organics	NELAP	12/22/2015
2-Chloroethyl vinyl ether	EPA 8260	Volatile Organics	NELAP	12/22/2015
2-Chloronaphthalene	EPA 625	Extractable Organics	NELAP	12/22/2015
2-Chloronaphthalene	EPA 8270	Extractable Organics	NELAP	12/22/2015
2-Chlorophenol	EPA 625	Extractable Organics	NELAP	12/22/2015
2-Chlorophenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
2-Chlorotoluene	EPA 8260	Volatile Organics	NELAP	12/22/2015
2-Hexanone	EPA 8260	Volatile Organics	NELAP	12/22/2015
2-Methyl-4,6-dinitrophenol	EPA 625	Extractable Organics	NELAP	12/22/2015
2-Methyl-4,6-dinitrophenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
2-Methylnaphthalene	EPA 8270	Extractable Organics	NELAP	12/22/2015
2-Methylphenol (o-Cresol)	EPA 8270	Extractable Organics	NELAP	12/22/2015
2-Nitroaniline	EPA 8270	Extractable Organics	NELAP	12/22/2015
2-Nitrophenol	EPA 625	Extractable Organics	NELAP	12/22/2015
2-Nitrophenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
2-Nitrotoluene	EPA 8330	Extractable Organics	NELAP	12/22/2015
3,3'-Dichlorobenzidine	EPA 625	Extractable Organics	NELAP	12/22/2015
3,3'-Dichlorobenzidine	EPA 8270	Extractable Organics	NELAP	12/22/2015
3,5-Dinitroaniline	EPA 8330	Extractable Organics	NELAP	12/22/2015
3-Methylphenol (m-Cresol)	EPA 8270	Extractable Organics	NELAP	12/22/2015
3-Nitroaniline	EPA 8270	Extractable Organics	NELAP	12/22/2015
3-Nitrotoluene	EPA 8330	Extractable Organics	NELAP	12/22/2015
4,4'-DDD	EPA 608	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
4,4'-DDD	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
4,4'-DDE	EPA 608	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
4,4'-DDE	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
4,4'-DDT	EPA 608	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
4,4'-DDT	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
4-Amino-2,6-dinitrotoluene (4-am-dnt)	EPA 8330	Extractable Organics	NELAP	12/22/2015

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EPA Lab Code: **TN00004**

**(615) 345-1115**

**E87646**  
**Empirical Laboratories, LLC.**  
**621 Mainstream Drive**  
**Suite 270**  
**Nashville, TN 37228**

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
4-Bromophenyl phenyl ether	EPA 625	Extractable Organics	NELAP	12/22/2015
4-Bromophenyl phenyl ether	EPA 8270	Extractable Organics	NELAP	12/22/2015
4-Chloro-3-methylphenol	EPA 625	Extractable Organics	NELAP	12/22/2015
4-Chloro-3-methylphenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
4-Chloroaniline	EPA 8270	Extractable Organics	NELAP	12/22/2015
4-Chlorophenyl phenylether	EPA 625	Extractable Organics	NELAP	12/22/2015
4-Chlorophenyl phenylether	EPA 8270	Extractable Organics	NELAP	12/22/2015
4-Chlorotoluene	EPA 8260	Volatile Organics	NELAP	12/22/2015
4-Methyl-2-pentanone (MIBK)	EPA 8260	Volatile Organics	NELAP	12/22/2015
4-Methylphenol (p-Cresol)	EPA 8270	Extractable Organics	NELAP	12/22/2015
4-Nitroaniline	EPA 8270	Extractable Organics	NELAP	12/22/2015
4-Nitrophenol	EPA 625	Extractable Organics	NELAP	12/22/2015
4-Nitrophenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
4-Nitrotoluene	EPA 8330	Extractable Organics	NELAP	12/22/2015
Acenaphthene	EPA 625	Extractable Organics	NELAP	12/22/2015
Acenaphthene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Acenaphthylene	EPA 625	Extractable Organics	NELAP	12/22/2015
Acenaphthylene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Acetone	EPA 8260	Volatile Organics	NELAP	12/22/2015
Acetonitrile	EPA 8260	Volatile Organics	NELAP	12/22/2015
Acetophenone	EPA 8270	Extractable Organics	NELAP	12/22/2015
Acrolein (Propenal)	EPA 624	Volatile Organics	NELAP	12/22/2015
Acrolein (Propenal)	EPA 8260	Volatile Organics	NELAP	12/22/2015
Acrylonitrile	EPA 624	Volatile Organics	NELAP	12/22/2015
Acrylonitrile	EPA 8260	Volatile Organics	NELAP	12/22/2015
Aldrin	EPA 608	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Aldrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Alkalinity as CaCO3	SM 2320 B	General Chemistry	NELAP	12/22/2015
Allyl chloride (3-Chloropropene)	EPA 8260	Volatile Organics	NELAP	12/22/2015
alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
alpha-Chlordane	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Aluminum	EPA 200.7	Metals	NELAP	12/22/2015
Aluminum	EPA 6010	Metals	NELAP	12/22/2015
Ammonia as N	SM 4500-NH3 G	General Chemistry	NELAP	12/22/2015

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**E87646**  
**Empirical Laboratories, LLC.**  
**621 Mainstream Drive**  
**Suite 270**  
**Nashville, TN 37228**

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Aniline	EPA 8270	Extractable Organics	NELAP	12/22/2015
Anthracene	EPA 625	Extractable Organics	NELAP	12/22/2015
Anthracene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Antimony	EPA 200.7	Metals	NELAP	12/22/2015
Antimony	EPA 6010	Metals	NELAP	12/22/2015
Aroclor-1016 (PCB-1016)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Aroclor-1016 (PCB-1016)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Aroclor-1221 (PCB-1221)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Aroclor-1221 (PCB-1221)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Aroclor-1232 (PCB-1232)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Aroclor-1232 (PCB-1232)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Aroclor-1242 (PCB-1242)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Aroclor-1242 (PCB-1242)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Aroclor-1248 (PCB-1248)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Aroclor-1248 (PCB-1248)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Aroclor-1254 (PCB-1254)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Aroclor-1254 (PCB-1254)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Aroclor-1260 (PCB-1260)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Aroclor-1260 (PCB-1260)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Aroclor-1262 (PCB-1262)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Aroclor-1268 (PCB-1268)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Arsenic	EPA 200.7	Metals	NELAP	12/22/2015
Arsenic	EPA 6010	Metals	NELAP	12/22/2015
Atrazine	EPA 8270	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Barium	EPA 200.7	Metals	NELAP	12/22/2015
Barium	EPA 6010	Metals	NELAP	12/22/2015
Benzaldehyde	EPA 8270	Extractable Organics	NELAP	12/22/2015
Benzene	EPA 624	Volatile Organics	NELAP	12/22/2015
Benzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Benzidine	EPA 625	Extractable Organics	NELAP	12/22/2015
Benzidine	EPA 8270	Extractable Organics	NELAP	12/22/2015
Benzo(a)anthracene	EPA 625	Extractable Organics	NELAP	12/22/2015
Benzo(a)anthracene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Benzo(a)pyrene	EPA 625	Extractable Organics	NELAP	12/22/2015
Benzo(a)pyrene	EPA 8270	Extractable Organics	NELAP	12/22/2015

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**Nashville, TN 37228**

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Benzo(b)fluoranthene	EPA 625	Extractable Organics	NELAP	12/22/2015
Benzo(b)fluoranthene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Benzo(g,h,i)perylene	EPA 625	Extractable Organics	NELAP	12/22/2015
Benzo(g,h,i)perylene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Benzo(k)fluoranthene	EPA 625	Extractable Organics	NELAP	12/22/2015
Benzo(k)fluoranthene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Benzoic acid	EPA 8270	Extractable Organics	NELAP	12/22/2015
Benzyl alcohol	EPA 8270	Extractable Organics	NELAP	12/22/2015
Beryllium	EPA 200.7	Metals	NELAP	12/22/2015
Beryllium	EPA 6010	Metals	NELAP	12/22/2015
beta-BHC (beta-Hexachlorocyclohexane)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
beta-BHC (beta-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Biochemical oxygen demand	SM 5210 B	General Chemistry	NELAP	12/22/2015
Biphenyl	EPA 8270	Extractable Organics	NELAP	12/22/2015
bis(2-Chloroethoxy)methane	EPA 625	Extractable Organics	NELAP	12/22/2015
bis(2-Chloroethoxy)methane	EPA 8270	Extractable Organics	NELAP	12/22/2015
bis(2-Chloroethyl) ether	EPA 625	Extractable Organics	NELAP	12/22/2015
bis(2-Chloroethyl) ether	EPA 8270	Extractable Organics	NELAP	12/22/2015
bis(2-Ethylhexyl) phthalate (DEHP)	EPA 625	Extractable Organics	NELAP	12/22/2015
bis(2-Ethylhexyl) phthalate (DEHP)	EPA 8270	Extractable Organics	NELAP	12/22/2015
Boron	EPA 200.7	Metals	NELAP	12/22/2015
Boron	EPA 6010	Metals	NELAP	12/22/2015
Bromide	EPA 300.0	General Chemistry	NELAP	12/22/2015
Bromide	EPA 9056	General Chemistry	NELAP	12/22/2015
Bromobenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Bromochloromethane	EPA 8260	Volatile Organics	NELAP	12/22/2015
Bromodichloromethane	EPA 624	Volatile Organics	NELAP	12/22/2015
Bromodichloromethane	EPA 8260	Volatile Organics	NELAP	12/22/2015
Bromoform	EPA 624	Volatile Organics	NELAP	12/22/2015
Bromoform	EPA 8260	Volatile Organics	NELAP	12/22/2015
Butyl benzyl phthalate	EPA 625	Extractable Organics	NELAP	12/22/2015
Butyl benzyl phthalate	EPA 8270	Extractable Organics	NELAP	12/22/2015
Cadmium	EPA 200.7	Metals	NELAP	12/22/2015
Cadmium	EPA 6010	Metals	NELAP	12/22/2015
Calcium	EPA 200.7	Metals	NELAP	12/22/2015

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Issue Date: 7/1/2017

Expiration Date: 6/30/2018



**Laboratory Scope of Accreditation**

**Attachment to Certificate #: E87646-26, expiration date June 30, 2018. This listing of accredited analytes should be used only when associated with a valid certificate.**

State Laboratory ID: **E87646**

EPA Lab Code: **TN00004**

**(615) 345-1115**

**E87646**  
**Empirical Laboratories, LLC.**  
**621 Mainstream Drive**  
**Suite 270**  
**Nashville, TN 37228**

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Calcium	EPA 6010	Metals	NELAP	12/22/2015
Caprolactam	EPA 8270	Extractable Organics	NELAP	12/22/2015
Carbazole	EPA 8270	Extractable Organics	NELAP	12/22/2015
Carbon disulfide	EPA 8260	Volatile Organics	NELAP	12/22/2015
Carbon tetrachloride	EPA 624	Volatile Organics	NELAP	12/22/2015
Carbon tetrachloride	EPA 8260	Volatile Organics	NELAP	12/22/2015
Carbonaceous BOD (CBOD)	SM 5210 B	General Chemistry	NELAP	12/22/2015
Chemical oxygen demand	EPA 410.4	General Chemistry	NELAP	12/22/2015
Chlordane (tech.)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Chlordane (tech.)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Chloride	EPA 300.0	General Chemistry	NELAP	12/22/2015
Chloride	EPA 9056	General Chemistry	NELAP	12/22/2015
Chlorobenzene	EPA 624	Volatile Organics	NELAP	12/22/2015
Chlorobenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Chloroethane	EPA 624	Volatile Organics	NELAP	12/22/2015
Chloroethane	EPA 8260	Volatile Organics	NELAP	12/22/2015
Chloroform	EPA 624	Volatile Organics	NELAP	12/22/2015
Chloroform	EPA 8260	Volatile Organics	NELAP	12/22/2015
Chloroprene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Chromium	EPA 200.7	Metals	NELAP	12/22/2015
Chromium	EPA 6010	Metals	NELAP	12/22/2015
Chromium VI	EPA 7196	General Chemistry	NELAP	12/22/2015
Chrysene	EPA 625	Extractable Organics	NELAP	12/22/2015
Chrysene	EPA 8270	Extractable Organics	NELAP	12/22/2015
cis-1,2-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	12/22/2015
cis-1,3-Dichloropropene	EPA 624	Volatile Organics	NELAP	12/22/2015
cis-1,3-Dichloropropene	EPA 8260	Volatile Organics	NELAP	12/22/2015
cis-1,4-Dichloro-2-butene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Cobalt	EPA 200.7	Metals	NELAP	12/22/2015
Cobalt	EPA 6010	Metals	NELAP	12/22/2015
Conductivity	EPA 120.1	General Chemistry	NELAP	12/22/2015
Copper	EPA 200.7	Metals	NELAP	12/22/2015
Copper	EPA 6010	Metals	NELAP	12/22/2015
Cyclohexane	EPA 8260	Volatile Organics	NELAP	12/22/2015
Dalapon	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	12/22/2015

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**Laboratory Scope of Accreditation**

**Attachment to Certificate #: E87646-26, expiration date June 30, 2018. This listing of accredited analytes should be used only when associated with a valid certificate.**

State Laboratory ID: **E87646**EPA Lab Code: **TN00004****(615) 345-1115****E87646****Empirical Laboratories, LLC.****621 Mainstream Drive****Suite 270****Nashville, TN 37228**Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
delta-BHC	EPA 608	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
delta-BHC	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Dibenz(a,h)anthracene	EPA 625	Extractable Organics	NELAP	12/22/2015
Dibenz(a,h)anthracene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Dibenzofuran	EPA 8270	Extractable Organics	NELAP	12/22/2015
Dibromochloromethane	EPA 624	Volatile Organics	NELAP	12/22/2015
Dibromochloromethane	EPA 8260	Volatile Organics	NELAP	12/22/2015
Dibromomethane	EPA 8260	Volatile Organics	NELAP	12/22/2015
Dicamba	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Dichlorodifluoromethane	EPA 624	Volatile Organics	NELAP	12/22/2015
Dichlorodifluoromethane	EPA 8260	Volatile Organics	NELAP	12/22/2015
Dichloroprop (Dichlorprop)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Dieldrin	EPA 608	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Dieldrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Diesel range organics (DRO)	EPA 8015	Extractable Organics	NELAP	12/22/2015
Diethyl phthalate	EPA 625	Extractable Organics	NELAP	12/22/2015
Diethyl phthalate	EPA 8270	Extractable Organics	NELAP	12/22/2015
Dimethyl phthalate	EPA 625	Extractable Organics	NELAP	12/22/2015
Dimethyl phthalate	EPA 8270	Extractable Organics	NELAP	12/22/2015
Di-n-butyl phthalate	EPA 625	Extractable Organics	NELAP	12/22/2015
Di-n-butyl phthalate	EPA 8270	Extractable Organics	NELAP	12/22/2015
Di-n-octyl phthalate	EPA 625	Extractable Organics	NELAP	12/22/2015
Di-n-octyl phthalate	EPA 8270	Extractable Organics	NELAP	12/22/2015
Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Endosulfan I	EPA 608	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Endosulfan I	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Endosulfan II	EPA 608	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Endosulfan II	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Endosulfan sulfate	EPA 608	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Endosulfan sulfate	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Endrin	EPA 608	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Endrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Endrin aldehyde	EPA 608	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Endrin aldehyde	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Endrin ketone	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015

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**Laboratory Scope of Accreditation**

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State Laboratory ID: **E87646**EPA Lab Code: **TN00004****(615) 345-1115****E87646****Empirical Laboratories, LLC.****621 Mainstream Drive****Suite 270****Nashville, TN 37228**Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Ethane	RSK-175	Volatile Organics	NELAP	12/22/2015
Ethyl methacrylate	EPA 8260	Volatile Organics	NELAP	12/22/2015
Ethylbenzene	EPA 624	Volatile Organics	NELAP	12/22/2015
Ethylbenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Ethylene	RSK-175	Volatile Organics	NELAP	12/22/2015
Ethyl-t-butylether (ETBE)	EPA 8260	Volatile Organics	NELAP	12/22/2015
Fluoranthene	EPA 625	Extractable Organics	NELAP	12/22/2015
Fluoranthene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Fluorene	EPA 625	Extractable Organics	NELAP	12/22/2015
Fluorene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Fluoride	EPA 300.0	General Chemistry	NELAP	12/22/2015
Fluoride	EPA 9056	General Chemistry	NELAP	12/22/2015
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
gamma-Chlordane	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Gasoline range organics (GRO)	EPA 8015	Volatile Organics	NELAP	12/22/2015
Hardness	SM 2340 B	General Chemistry	NELAP	12/22/2015
Hardness (calc.)	EPA 200.7	General Chemistry	NELAP	12/22/2015
Heptachlor	EPA 608	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Heptachlor	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Heptachlor epoxide	EPA 608	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Heptachlor epoxide	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Hexachlorobenzene	EPA 625	Extractable Organics	NELAP	12/22/2015
Hexachlorobenzene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Hexachlorobutadiene	EPA 625	Extractable Organics	NELAP	12/22/2015
Hexachlorobutadiene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Hexachlorobutadiene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Hexachlorocyclopentadiene	EPA 625	Extractable Organics	NELAP	12/22/2015
Hexachlorocyclopentadiene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Hexachloroethane	EPA 625	Extractable Organics	NELAP	12/22/2015
Hexachloroethane	EPA 8270	Extractable Organics	NELAP	12/22/2015
Ignitability	EPA 1010	General Chemistry	NELAP	12/22/2015
Indeno(1,2,3-cd)pyrene	EPA 625	Extractable Organics	NELAP	12/22/2015
Indeno(1,2,3-cd)pyrene	EPA 8270	Extractable Organics	NELAP	12/22/2015

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State Laboratory ID: **E87646**EPA Lab Code: **TN00004****(615) 345-1115****E87646****Empirical Laboratories, LLC.****621 Mainstream Drive****Suite 270****Nashville, TN 37228**Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Iodomethane (Methyl iodide)	EPA 8260	Volatile Organics	NELAP	12/22/2015
Iron	EPA 200.7	Metals	NELAP	12/22/2015
Iron	EPA 6010	Metals	NELAP	12/22/2015
Isobutyl alcohol (2-Methyl-1-propanol)	EPA 8260	Volatile Organics	NELAP	12/22/2015
Isophorone	EPA 625	Extractable Organics	NELAP	12/22/2015
Isophorone	EPA 8270	Extractable Organics	NELAP	12/22/2015
Isopropyl ether	EPA 8260	Volatile Organics	NELAP	12/22/2015
Isopropylbenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Kjeldahl nitrogen - total	EPA 351.2	General Chemistry	NELAP	12/22/2015
Lead	EPA 200.7	Metals	NELAP	12/22/2015
Lead	EPA 6010	Metals	NELAP	12/22/2015
Magnesium	EPA 200.7	Metals	NELAP	12/22/2015
Magnesium	EPA 6010	Metals	NELAP	12/22/2015
Manganese	EPA 200.7	Metals	NELAP	12/22/2015
Manganese	EPA 6010	Metals	NELAP	12/22/2015
MCPA	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
MCPP	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Mercury	EPA 245.1	Metals	NELAP	12/22/2015
Mercury	EPA 7470	Metals	NELAP	12/22/2015
Methacrylonitrile	EPA 8260	Volatile Organics	NELAP	12/22/2015
Methane	RSK-175	Volatile Organics	NELAP	12/22/2015
Methoxychlor	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Methyl acetate	EPA 8260	Volatile Organics	NELAP	12/22/2015
Methyl bromide (Bromomethane)	EPA 624	Volatile Organics	NELAP	12/22/2015
Methyl bromide (Bromomethane)	EPA 8260	Volatile Organics	NELAP	12/22/2015
Methyl chloride (Chloromethane)	EPA 624	Volatile Organics	NELAP	12/22/2015
Methyl chloride (Chloromethane)	EPA 8260	Volatile Organics	NELAP	12/22/2015
Methyl methacrylate	EPA 8260	Volatile Organics	NELAP	12/22/2015
Methyl tert-butyl ether (MTBE)	EPA 8260	Volatile Organics	NELAP	12/22/2015
Methylcyclohexane	EPA 8260	Volatile Organics	NELAP	12/22/2015
Methylene chloride	EPA 624	Volatile Organics	NELAP	12/22/2015
Methylene chloride	EPA 8260	Volatile Organics	NELAP	12/22/2015
Molybdenum	EPA 200.7	Metals	NELAP	12/22/2015
Molybdenum	EPA 6010	Metals	NELAP	12/22/2015
m-Xylene	EPA 8260	Volatile Organics	NELAP	12/22/2015

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**Laboratory Scope of Accreditation**

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State Laboratory ID: **E87646**EPA Lab Code: **TN00004****(615) 345-1115**

**E87646**  
**Empirical Laboratories, LLC.**  
**621 Mainstream Drive**  
**Suite 270**  
**Nashville, TN 37228**

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Naphthalene	EPA 625	Extractable Organics	NELAP	12/22/2015
Naphthalene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Naphthalene	EPA 8270	Extractable Organics	NELAP	12/22/2015
n-Butylbenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
n-Hexane	EPA 8260	Volatile Organics	NELAP	12/22/2015
Nickel	EPA 200.7	Metals	NELAP	12/22/2015
Nickel	EPA 6010	Metals	NELAP	12/22/2015
Nitrate	EPA 9056	General Chemistry	NELAP	12/22/2015
Nitrate as N	EPA 300.0	General Chemistry	NELAP	12/22/2015
Nitrite	EPA 300.0	General Chemistry	NELAP	12/22/2015
Nitrite	EPA 9056	General Chemistry	NELAP	12/22/2015
Nitrite as N	SM 4500-NO2-B	General Chemistry	NELAP	12/22/2015
Nitrobenzene	EPA 625	Extractable Organics	NELAP	12/22/2015
Nitrobenzene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Nitrobenzene	EPA 8330	Extractable Organics	NELAP	12/22/2015
Nitrocellulose	EL SOP 234/UV-VIS	General Chemistry	NELAP	12/22/2015
Nitroglycerin	EPA 8330	Extractable Organics	NELAP	12/22/2015
Nitroguanidine	EL SOP 233/HPLC-UV	Extractable Organics	NELAP	12/22/2015
n-Nitrosodimethylamine	EPA 625	Extractable Organics	NELAP	12/22/2015
n-Nitrosodimethylamine	EPA 8270	Extractable Organics	NELAP	12/22/2015
n-Nitrosodi-n-propylamine	EPA 625	Extractable Organics	NELAP	12/22/2015
n-Nitrosodi-n-propylamine	EPA 8270	Extractable Organics	NELAP	12/22/2015
n-Nitrosodiphenylamine	EPA 625	Extractable Organics	NELAP	12/22/2015
n-Nitrosodiphenylamine	EPA 8270	Extractable Organics	NELAP	12/22/2015
n-Propylbenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	EPA 8330	Extractable Organics	NELAP	12/22/2015
Oil & Grease	EPA 1664A	General Chemistry	NELAP	12/22/2015
Orthophosphate as P	SM 4500-P E	General Chemistry	NELAP	12/22/2015
o-Xylene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Pentachlorophenol	EPA 625	Extractable Organics	NELAP	12/22/2015
Pentachlorophenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
Pentaerythritoltetranitrate (PETN)	EPA 8330	Extractable Organics	NELAP	12/22/2015
Perchlorate	EPA 6850	Extractable Organics	NELAP	12/22/2015
pH	EPA 9040	General Chemistry	NELAP	12/22/2015
pH	SM 4500-H+-B	General Chemistry	NELAP	12/22/2015

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State Laboratory ID: **E87646**EPA Lab Code: **TN00004****(615) 345-1115**

**E87646**  
**Empirical Laboratories, LLC.**  
**621 Mainstream Drive**  
**Suite 270**  
**Nashville, TN 37228**

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Phenanthrene	EPA 625	Extractable Organics	NELAP	12/22/2015
Phenanthrene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Phenol	EPA 625	Extractable Organics	NELAP	12/22/2015
Phenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
Phosphorus, total	SM 4500-P E	General Chemistry	NELAP	12/22/2015
p-Isopropyltoluene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Potassium	EPA 200.7	Metals	NELAP	12/22/2015
Potassium	EPA 6010	Metals	NELAP	12/22/2015
Propionitrile (Ethyl cyanide)	EPA 8260	Volatile Organics	NELAP	12/22/2015
p-Xylene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Pyrene	EPA 625	Extractable Organics	NELAP	12/22/2015
Pyrene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Pyridine	EPA 625	Extractable Organics	NELAP	12/22/2015
Pyridine	EPA 8270	Extractable Organics	NELAP	12/22/2015
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	EPA 8330	Extractable Organics	NELAP	12/22/2015
Residue-filterable (TDS)	SM 2540 C	General Chemistry	NELAP	12/22/2015
Residue-nonfilterable (TSS)	SM 2540 D	General Chemistry	NELAP	12/22/2015
Residue-total	SM 2540 B	General Chemistry	NELAP	12/22/2015
sec-Butylbenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Selenium	EPA 200.7	Metals	NELAP	12/22/2015
Selenium	EPA 6010	Metals	NELAP	12/22/2015
Silver	EPA 200.7	Metals	NELAP	12/22/2015
Silver	EPA 6010	Metals	NELAP	12/22/2015
Silvex (2,4,5-TP)	EPA 8151	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Sodium	EPA 200.7	Metals	NELAP	12/22/2015
Sodium	EPA 6010	Metals	NELAP	12/22/2015
Strontium	EPA 200.7	Metals	NELAP	12/22/2015
Strontium	EPA 6010	Metals	NELAP	12/22/2015
Styrene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Sulfate	EPA 300.0	General Chemistry	NELAP	12/22/2015
Sulfate	EPA 9056	General Chemistry	NELAP	12/22/2015
Sulfide	SM 4500-S F	General Chemistry	NELAP	5/2/2017
T-amylethylether (TAEE)	EPA 8260	Volatile Organics	NELAP	12/22/2015
T-amylmethylether (TAME)	EPA 8260	Volatile Organics	NELAP	12/22/2015
tert-Amyl alcohol (2-methyl-2-butanol)	EPA 8260	Volatile Organics	NELAP	12/22/2015

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State Laboratory ID: **E87646**EPA Lab Code: **TN00004****(615) 345-1115****E87646****Empirical Laboratories, LLC.****621 Mainstream Drive****Suite 270****Nashville, TN 37228**Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
tert-Butyl alcohol (2-Methyl-2-propanol)	EPA 8260	Volatile Organics	NELAP	12/22/2015
tert-Butylbenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Tetrachloroethylene (Perchloroethylene)	EPA 624	Volatile Organics	NELAP	12/22/2015
Tetrachloroethylene (Perchloroethylene)	EPA 8260	Volatile Organics	NELAP	12/22/2015
Tetrahydrofuran (THF)	EPA 8260	Volatile Organics	NELAP	12/22/2015
Tetryl (methyl-2,4,6-trinitrophenylnitramine)	EPA 8330	Extractable Organics	NELAP	12/22/2015
Thallium	EPA 200.7	Metals	NELAP	12/22/2015
Thallium	EPA 6010	Metals	NELAP	12/22/2015
Tin	EPA 200.7	Metals	NELAP	12/22/2015
Tin	EPA 6010	Metals	NELAP	12/22/2015
Titanium	EPA 200.7	Metals	NELAP	12/22/2015
Titanium	EPA 6010	Metals	NELAP	12/22/2015
Toluene	EPA 624	Volatile Organics	NELAP	12/22/2015
Toluene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Total cyanide	EPA 9012	General Chemistry	NELAP	12/22/2015
Total nitrate-nitrite	EPA 353.2	General Chemistry	NELAP	12/22/2015
Total organic carbon	EPA 9060	General Chemistry	NELAP	12/22/2015
Total organic carbon	SM 5310 C	General Chemistry	NELAP	12/22/2015
Total Petroleum Hydrocarbons (TPH)	FL-PRO	Extractable Organics	NELAP	12/22/2015
Total phenolics	EPA 420.4	General Chemistry	NELAP	12/22/2015
Toxaphene (Chlorinated camphene)	EPA 608	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Toxaphene (Chlorinated camphene)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
trans-1,2-Dichloroethylene	EPA 624	Volatile Organics	NELAP	12/22/2015
trans-1,2-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	12/22/2015
trans-1,3-Dichloropropene	EPA 624	Volatile Organics	NELAP	12/22/2015
trans-1,3-Dichloropropene	EPA 8260	Volatile Organics	NELAP	12/22/2015
trans-1,4-Dichloro-2-butene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Trichloroethene (Trichloroethylene)	EPA 624	Volatile Organics	NELAP	12/22/2015
Trichloroethene (Trichloroethylene)	EPA 8260	Volatile Organics	NELAP	12/22/2015
Trichlorofluoromethane	EPA 624	Volatile Organics	NELAP	12/22/2015
Trichlorofluoromethane	EPA 8260	Volatile Organics	NELAP	12/22/2015
Vanadium	EPA 200.7	Metals	NELAP	12/22/2015
Vanadium	EPA 6010	Metals	NELAP	12/22/2015
Vinyl acetate	EPA 8260	Volatile Organics	NELAP	12/22/2015
Vinyl chloride	EPA 624	Volatile Organics	NELAP	12/22/2015

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**Issue Date: 7/1/2017****Expiration Date: 6/30/2018**



**Laboratory Scope of Accreditation**

**Attachment to Certificate #: E87646-26, expiration date June 30, 2018. This listing of accredited analytes should be used only when associated with a valid certificate.**

State Laboratory ID: **E87646**

EPA Lab Code: **TN00004**

**(615) 345-1115**

**E87646**  
**Empirical Laboratories, LLC.**  
**621 Mainstream Drive**  
**Suite 270**  
**Nashville, TN 37228**

Matrix: **Non-Potable Water**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Vinyl chloride	EPA 8260	Volatile Organics	NELAP	12/22/2015
Xylene (total)	EPA 624	Volatile Organics	NELAP	12/22/2015
Xylene (total)	EPA 8260	Volatile Organics	NELAP	12/22/2015
Zinc	EPA 200.7	Metals	NELAP	12/22/2015
Zinc	EPA 6010	Metals	NELAP	12/22/2015



### Laboratory Scope of Accreditation

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State Laboratory ID: **E87646**EPA Lab Code: **TN00004****(615) 345-1115****E87646****Empirical Laboratories, LLC.****621 Mainstream Drive****Suite 270****Nashville, TN 37228**Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
1,1,1,2-Tetrachloroethane	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,1,1-Trichloroethane	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,1,2,2-Tetrachloroethane	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,1,2-Trichloroethane	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,1-Dichloroethane	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,1-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,1-Dichloropropene	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,2,3-Trichlorobenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,2,3-Trichloropropane	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,2,4,5-Tetrachlorobenzene	EPA 8270	Extractable Organics	NELAP	12/22/2015
1,2,4-Trichlorobenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,2,4-Trichlorobenzene	EPA 8270	Extractable Organics	NELAP	12/22/2015
1,2,4-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,2-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,2-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	12/22/2015
1,2-Dichloroethane	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,2-Dichloropropane	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,2-Diphenylhydrazine (as Azobenzene)	EPA 8270	Extractable Organics	NELAP	12/22/2015
1,3,5-Trimethylbenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,3,5-Trinitrobenzene (1,3,5-TNB)	EPA 8330	Extractable Organics	NELAP	12/22/2015
1,3-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,3-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	12/22/2015
1,3-Dichloropropane	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,3-Dinitrobenzene (1,3-DNB)	EPA 8330	Extractable Organics	NELAP	12/22/2015
1,4-Dichlorobenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,4-Dichlorobenzene	EPA 8270	Extractable Organics	NELAP	12/22/2015
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8260	Volatile Organics	NELAP	12/22/2015
1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270	Extractable Organics	NELAP	12/22/2015
1-Chlorohexane	EPA 8260	Volatile Organics	NELAP	12/22/2015
1-Methylnaphthalene	EPA 8270	Extractable Organics	NELAP	12/22/2015
2,2-Dichloropropane	EPA 8260	Volatile Organics	NELAP	12/22/2015
2,2'-Oxybis(1-chloropropane),bis(2-Chloro-1-methylethyl)ether (fka bis(2-Chloroisopropyl) ether)	EPA 8270	Extractable Organics	NELAP	12/22/2015

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**Issue Date: 7/1/2017****Expiration Date: 6/30/2018**



**Laboratory Scope of Accreditation**

**Attachment to Certificate #: E87646-26, expiration date June 30, 2018. This listing of accredited analytes should be used only when associated with a valid certificate.**

State Laboratory ID: **E87646**EPA Lab Code: **TN00004****(615) 345-1115****E87646****Empirical Laboratories, LLC.****621 Mainstream Drive****Suite 270****Nashville, TN 37228**Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
2,3,4,6-Tetrachlorophenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
2,4,5-Trichlorophenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
2,4,6-Trichlorophenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
2,4,6-Trinitrotoluene (2,4,6-TNT)	EPA 8330	Extractable Organics	NELAP	12/22/2015
2,4-Dichlorophenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
2,4-Dimethylphenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
2,4-Dinitrophenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
2,4-Dinitrotoluene (2,4-DNT)	EPA 8270	Extractable Organics	NELAP	12/22/2015
2,4-Dinitrotoluene (2,4-DNT)	EPA 8330	Extractable Organics	NELAP	12/22/2015
2,6-Dichlorophenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
2,6-Dinitrotoluene (2,6-DNT)	EPA 8270	Extractable Organics	NELAP	12/22/2015
2,6-Dinitrotoluene (2,6-DNT)	EPA 8330	Extractable Organics	NELAP	12/22/2015
2-Amino-4,6-dinitrotoluene (2-am-dnt)	EPA 8330	Extractable Organics	NELAP	12/22/2015
2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260	Volatile Organics	NELAP	12/22/2015
2-Chloroethyl vinyl ether	EPA 8260	Volatile Organics	NELAP	12/22/2015
2-Chloronaphthalene	EPA 8270	Extractable Organics	NELAP	12/22/2015
2-Chlorophenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
2-Chlorotoluene	EPA 8260	Volatile Organics	NELAP	12/22/2015
2-Hexanone	EPA 8260	Volatile Organics	NELAP	12/22/2015
2-Methyl-4,6-dinitrophenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
2-Methylnaphthalene	EPA 8270	Extractable Organics	NELAP	12/22/2015
2-Methylphenol (o-Cresol)	EPA 8270	Extractable Organics	NELAP	12/22/2015
2-Nitroaniline	EPA 8270	Extractable Organics	NELAP	12/22/2015
2-Nitrophenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
2-Nitrotoluene	EPA 8330	Extractable Organics	NELAP	12/22/2015
3,3'-Dichlorobenzidine	EPA 8270	Extractable Organics	NELAP	12/22/2015
3,5-Dinitroaniline	EPA 8330	Extractable Organics	NELAP	12/22/2015
3-Methylphenol (m-Cresol)	EPA 8270	Extractable Organics	NELAP	12/22/2015
3-Nitroaniline	EPA 8270	Extractable Organics	NELAP	12/22/2015
3-Nitrotoluene	EPA 8330	Extractable Organics	NELAP	12/22/2015
4,4'-DDD	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
4,4'-DDE	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
4,4'-DDT	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
4-Amino-2,6-dinitrotoluene (4-am-dnt)	EPA 8330	Extractable Organics	NELAP	12/22/2015
4-Bromophenyl phenyl ether	EPA 8270	Extractable Organics	NELAP	12/22/2015

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**Laboratory Scope of Accreditation**

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State Laboratory ID: **E87646**EPA Lab Code: **TN00004****(615) 345-1115****E87646****Empirical Laboratories, LLC.****621 Mainstream Drive****Suite 270****Nashville, TN 37228**Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
4-Chloro-3-methylphenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
4-Chloroaniline	EPA 8270	Extractable Organics	NELAP	12/22/2015
4-Chlorophenyl phenylether	EPA 8270	Extractable Organics	NELAP	12/22/2015
4-Chlorotoluene	EPA 8260	Volatile Organics	NELAP	12/22/2015
4-Methyl-2-pentanone (MIBK)	EPA 8260	Volatile Organics	NELAP	12/22/2015
4-Methylphenol (p-Cresol)	EPA 8270	Extractable Organics	NELAP	12/22/2015
4-Nitroaniline	EPA 8270	Extractable Organics	NELAP	12/22/2015
4-Nitrophenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
4-Nitrotoluene	EPA 8330	Extractable Organics	NELAP	12/22/2015
Acenaphthene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Acenaphthylene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Acetone	EPA 8260	Volatile Organics	NELAP	12/22/2015
Acetonitrile	EPA 8260	Volatile Organics	NELAP	12/22/2015
Acetophenone	EPA 8270	Extractable Organics	NELAP	12/22/2015
Acrolein (Propenal)	EPA 8260	Volatile Organics	NELAP	12/22/2015
Acrylonitrile	EPA 8260	Volatile Organics	NELAP	12/22/2015
Aldrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Allyl chloride (3-Chloropropene)	EPA 8260	Volatile Organics	NELAP	12/22/2015
alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
alpha-Chlordane	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Aluminum	EPA 6010	Metals	NELAP	12/22/2015
Aniline	EPA 8270	Extractable Organics	NELAP	12/22/2015
Anthracene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Antimony	EPA 6010	Metals	NELAP	12/22/2015
Aroclor-1016 (PCB-1016)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Aroclor-1221 (PCB-1221)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Aroclor-1232 (PCB-1232)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Aroclor-1242 (PCB-1242)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Aroclor-1248 (PCB-1248)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Aroclor-1254 (PCB-1254)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Aroclor-1260 (PCB-1260)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Aroclor-1262 (PCB-1262)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Aroclor-1268 (PCB-1268)	EPA 8082	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Arsenic	EPA 6010	Metals	NELAP	12/22/2015
Atrazine	EPA 8270	Extractable Organics	NELAP	12/22/2015

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### Laboratory Scope of Accreditation

Attachment to Certificate #: E87646-26, expiration date June 30, 2018. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87646**EPA Lab Code: **TN00004****(615) 345-1115****E87646****Empirical Laboratories, LLC.****621 Mainstream Drive****Suite 270****Nashville, TN 37228**Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Barium	EPA 6010	Metals	NELAP	12/22/2015
Benzaldehyde	EPA 8270	Extractable Organics	NELAP	12/22/2015
Benzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Benzidine	EPA 8270	Extractable Organics	NELAP	12/22/2015
Benzo(a)anthracene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Benzo(a)pyrene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Benzo(b)fluoranthene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Benzo(g,h,i)perylene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Benzo(k)fluoranthene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Benzoic acid	EPA 8270	Extractable Organics	NELAP	12/22/2015
Benzyl alcohol	EPA 8270	Extractable Organics	NELAP	12/22/2015
Beryllium	EPA 6010	Metals	NELAP	12/22/2015
beta-BHC (beta-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Biphenyl	EPA 8270	Extractable Organics	NELAP	12/22/2015
bis(2-Chloroethoxy)methane	EPA 8270	Extractable Organics	NELAP	12/22/2015
bis(2-Chloroethyl) ether	EPA 8270	Extractable Organics	NELAP	12/22/2015
bis(2-Ethylhexyl) phthalate (DEHP)	EPA 8270	Extractable Organics	NELAP	12/22/2015
Boron	EPA 6010	Metals	NELAP	12/22/2015
Bromide	EPA 9056	Metals	NELAP	12/22/2015
Bromobenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Bromochloromethane	EPA 8260	Volatile Organics	NELAP	12/22/2015
Bromodichloromethane	EPA 8260	Volatile Organics	NELAP	12/22/2015
Bromoform	EPA 8260	Volatile Organics	NELAP	12/22/2015
Butyl benzyl phthalate	EPA 8270	Extractable Organics	NELAP	12/22/2015
Cadmium	EPA 6010	Metals	NELAP	12/22/2015
Calcium	EPA 6010	Metals	NELAP	12/22/2015
Caprolactam	EPA 8270	Extractable Organics	NELAP	12/22/2015
Carbazole	EPA 8270	Extractable Organics	NELAP	12/22/2015
Carbon disulfide	EPA 8260	Volatile Organics	NELAP	12/22/2015
Carbon tetrachloride	EPA 8260	Volatile Organics	NELAP	12/22/2015
Chlordane (tech.)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Chloride	EPA 9056	General Chemistry	NELAP	12/22/2015
Chlorobenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Chloroethane	EPA 8260	Volatile Organics	NELAP	12/22/2015
Chloroform	EPA 8260	Volatile Organics	NELAP	12/22/2015

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State Laboratory ID: **E87646**EPA Lab Code: **TN00004****(615) 345-1115****E87646****Empirical Laboratories, LLC.****621 Mainstream Drive****Suite 270****Nashville, TN 37228**Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Chloroprene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Chromium	EPA 6010	Metals	NELAP	12/22/2015
Chrysene	EPA 8270	Extractable Organics	NELAP	12/22/2015
cis-1,2-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	12/22/2015
cis-1,3-Dichloropropene	EPA 8260	Volatile Organics	NELAP	12/22/2015
cis-1,4-Dichloro-2-butene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Cobalt	EPA 6010	Metals	NELAP	12/22/2015
Copper	EPA 6010	Metals	NELAP	12/22/2015
Cyclohexane	EPA 8260	Volatile Organics	NELAP	12/22/2015
delta-BHC	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Dibenz(a,h)anthracene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Dibenzofuran	EPA 8270	Extractable Organics	NELAP	12/22/2015
Dibromochloromethane	EPA 8260	Volatile Organics	NELAP	12/22/2015
Dibromomethane	EPA 8260	Volatile Organics	NELAP	12/22/2015
Dichlorodifluoromethane	EPA 8260	Volatile Organics	NELAP	12/22/2015
Dieldrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Diesel range organics (DRO)	EPA 8015	Extractable Organics	NELAP	12/22/2015
Diethyl phthalate	EPA 8270	Extractable Organics	NELAP	12/22/2015
Di-isopropylether (DIPE)	EPA 8260	Volatile Organics	NELAP	12/22/2015
Dimethyl phthalate	EPA 8270	Extractable Organics	NELAP	12/22/2015
Di-n-butyl phthalate	EPA 8270	Extractable Organics	NELAP	12/22/2015
Di-n-octyl phthalate	EPA 8270	Extractable Organics	NELAP	12/22/2015
Endosulfan I	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Endosulfan II	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Endosulfan sulfate	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Endrin	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Endrin aldehyde	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Endrin ketone	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Ethyl methacrylate	EPA 8260	Volatile Organics	NELAP	12/22/2015
Ethylbenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Ethyl-t-butylether (ETBE)	EPA 8260	Volatile Organics	NELAP	12/22/2015
Fluoranthene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Fluorene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Fluoride	EPA 9056	General Chemistry	NELAP	12/22/2015
gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015

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State Laboratory ID: **E87646**EPA Lab Code: **TN00004****(615) 345-1115****E87646****Empirical Laboratories, LLC.****621 Mainstream Drive****Suite 270****Nashville, TN 37228**Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
gamma-Chlordane	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Gasoline range organics (GRO)	EPA 8015	Extractable Organics	NELAP	12/22/2015
Heptachlor	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Heptachlor epoxide	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Hexachlorobenzene	EPA 8270	Extractable Organics,Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Hexachlorobutadiene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Hexachlorobutadiene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Hexachlorocyclopentadiene	EPA 8270	Extractable Organics,Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Hexachloroethane	EPA 8270	Extractable Organics	NELAP	12/22/2015
Ignitability	EPA 1010	General Chemistry	NELAP	12/22/2015
Indeno(1,2,3-cd)pyrene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Iodomethane (Methyl iodide)	EPA 8260	Volatile Organics	NELAP	12/22/2015
Iron	EPA 6010	Metals	NELAP	12/22/2015
Isobutyl alcohol (2-Methyl-1-propanol)	EPA 8260	Volatile Organics	NELAP	12/22/2015
Isophorone	EPA 8270	Extractable Organics	NELAP	12/22/2015
Isopropylbenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Lead	EPA 6010	Metals	NELAP	12/22/2015
Magnesium	EPA 6010	Metals	NELAP	12/22/2015
Manganese	EPA 6010	Metals	NELAP	12/22/2015
Mercury	EPA 7471	Metals	NELAP	12/22/2015
Methacrylonitrile	EPA 8260	Volatile Organics	NELAP	12/22/2015
Methoxychlor	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Methyl acetate	EPA 8260	Volatile Organics	NELAP	12/22/2015
Methyl bromide (Bromomethane)	EPA 8260	Volatile Organics	NELAP	12/22/2015
Methyl chloride (Chloromethane)	EPA 8260	Volatile Organics	NELAP	12/22/2015
Methyl methacrylate	EPA 8260	Volatile Organics	NELAP	12/22/2015
Methyl tert-butyl ether (MTBE)	EPA 8260	Volatile Organics	NELAP	12/22/2015
Methylcyclohexane	EPA 8260	Volatile Organics	NELAP	12/22/2015
Methylene chloride	EPA 8260	Volatile Organics	NELAP	12/22/2015
Molybdenum	EPA 6010	Metals	NELAP	12/22/2015
m-Xylene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Naphthalene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Naphthalene	EPA 8270	Extractable Organics	NELAP	12/22/2015

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**Issue Date: 7/1/2017****Expiration Date: 6/30/2018**



### Laboratory Scope of Accreditation

Attachment to Certificate #: E87646-26, expiration date June 30, 2018. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87646**EPA Lab Code: **TN00004****(615) 345-1115****E87646****Empirical Laboratories, LLC.****621 Mainstream Drive****Suite 270****Nashville, TN 37228**Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
n-Butylbenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
n-Hexane	EPA 8260	Volatile Organics	NELAP	12/22/2015
Nickel	EPA 6010	Metals	NELAP	12/22/2015
Nitrate	EPA 9056	General Chemistry	NELAP	12/22/2015
Nitrite	EPA 9056	General Chemistry	NELAP	12/22/2015
Nitrobenzene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Nitrobenzene	EPA 8330	Extractable Organics	NELAP	12/22/2015
Nitrocellulose	EL SOP 234/UV-VIS	General Chemistry	NELAP	12/22/2015
Nitroglycerin	EPA 8330	Extractable Organics	NELAP	12/22/2015
Nitroguanidine	EPA 8330	Extractable Organics	NELAP	12/22/2015
n-Nitrosodimethylamine	EPA 8270	Extractable Organics	NELAP	12/22/2015
n-Nitrosodi-n-propylamine	EPA 8270	Extractable Organics	NELAP	12/22/2015
n-Nitrosodiphenylamine	EPA 8270	Extractable Organics	NELAP	12/22/2015
n-Propylbenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	EPA 8330	Extractable Organics	NELAP	12/22/2015
o-Xylene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Pentachlorophenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
Pentaerythritoltetranitrate (PETN)	EPA 8330	Extractable Organics	NELAP	12/22/2015
Perchlorate	EPA 6850	General Chemistry	NELAP	12/22/2015
pH	EPA 9045	General Chemistry	NELAP	12/22/2015
Phenanthrene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Phenol	EPA 8270	Extractable Organics	NELAP	12/22/2015
p-Isopropyltoluene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Potassium	EPA 6010	Metals	NELAP	12/22/2015
Propionitrile (Ethyl cyanide)	EPA 8260	Volatile Organics	NELAP	12/22/2015
p-Xylene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Pyrene	EPA 8270	Extractable Organics	NELAP	12/22/2015
Pyridine	EPA 8270	Extractable Organics	NELAP	12/22/2015
RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	EPA 8330	Extractable Organics	NELAP	12/22/2015
Reactive sulfide	Sec. 7.3 SW-846	General Chemistry	NELAP	12/22/2015
sec-Butylbenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Selenium	EPA 6010	Metals	NELAP	12/22/2015
Silver	EPA 6010	Metals	NELAP	12/22/2015
Sodium	EPA 6010	Metals	NELAP	12/22/2015
Strontium	EPA 6010	Metals	NELAP	12/22/2015

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Attachment to Certificate #: E87646-26, expiration date June 30, 2018. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: **E87646**EPA Lab Code: **TN00004****(615) 345-1115****E87646****Empirical Laboratories, LLC.****621 Mainstream Drive****Suite 270****Nashville, TN 37228**Matrix: **Solid and Chemical Materials**

Analyte	Method/Tech	Category	Certification Type	Effective Date
Styrene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Sulfate	EPA 9056	General Chemistry	NELAP	12/22/2015
Synthetic Precipitation Leaching Procedure	EPA 1312	General Chemistry	NELAP	12/22/2015
T-amylethylether (TAEE)	EPA 8260	Volatile Organics	NELAP	12/22/2015
tert-Amyl alcohol (2-methyl-2-butanol)	EPA 8260	Volatile Organics	NELAP	12/22/2015
tert-Butyl alcohol (2-Methyl-2-propanol)	EPA 8260	Volatile Organics	NELAP	12/22/2015
tert-Butylbenzene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Tetrachloroethylene (Perchloroethylene)	EPA 8260	Volatile Organics	NELAP	12/22/2015
Tetrahydrofuran (THF)	EPA 8260	Volatile Organics	NELAP	12/22/2015
Tetryl (methyl-2,4,6-trinitrophenylnitramine)	EPA 8330	Extractable Organics	NELAP	12/22/2015
Thallium	EPA 6010	Metals	NELAP	12/22/2015
Tin	EPA 6010	Metals	NELAP	12/22/2015
Titanium	EPA 6010	Metals	NELAP	12/22/2015
Toluene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Total cyanide	EPA 9012	General Chemistry	NELAP	12/22/2015
Total organic carbon	EPA 9060	General Chemistry	NELAP	12/22/2015
Total organic carbon	Lloyd Khan	General Chemistry	NELAP	12/22/2015
Total Petroleum Hydrocarbons (TPH)	FL-PRO	Extractable Organics	NELAP	12/22/2015
Toxaphene (Chlorinated camphene)	EPA 8081	Pesticides-Herbicides-PCB's	NELAP	12/22/2015
Toxicity Characteristic Leaching Procedure	EPA 1311	General Chemistry	NELAP	12/22/2015
trans-1,2-Dichloroethylene	EPA 8260	Volatile Organics	NELAP	12/22/2015
trans-1,3-Dichloropropene	EPA 8260	Volatile Organics	NELAP	12/22/2015
trans-1,4-Dichloro-2-butene	EPA 8260	Volatile Organics	NELAP	12/22/2015
Trichloroethene (Trichloroethylene)	EPA 8260	Volatile Organics	NELAP	12/22/2015
Trichlorofluoromethane	EPA 8260	Volatile Organics	NELAP	12/22/2015
Vanadium	EPA 6010	Metals	NELAP	12/22/2015
Vinyl acetate	EPA 8260	Volatile Organics	NELAP	12/22/2015
Vinyl chloride	EPA 8260	Volatile Organics	NELAP	12/22/2015
Xylene (total)	EPA 8260	Volatile Organics	NELAP	12/22/2015
Zinc	EPA 6010	Metals	NELAP	12/22/2015

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Issue Date: 7/1/2017

Expiration Date: 6/30/2018