**STATE OF NORTH CAROLINA *Application for Initial Environmental Laboratory Certification***

DEPARTMENT OF ENVIRONMENTAL QUALITY

DIVISION OF WATER RESOURCES

WASTEWATER/GROUNDWATER LABORATORY CERTIFICATION BRANCH

Form #100-app \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 07/19/2021\_

**INSTRUCTIONS:** This application is only one part of the Certification process; completing and submitting an application does not constitute Certification. Upon review of the completed application, additional clarifications and documentation may be required. Clarifications and additional requested information received in a timely manner will expedite your application process. Please complete all applicable parts of this form using a computer or print legibly in ink.

**To apply for Certification, return a single electronic copy of this form to your assigned auditor or, a single hard copy may be mailed to:**

**DEQ/DWR Water Sciences Section**

**Laboratory Certification Branch**

**1623 Mail Service Center**

**Raleigh, NC 27699-1623**

For additional information, contact the Laboratory Certification program office:

Telephone: 919-733-3908

Fax: 919-733-6241

Program Homepage: <https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch>

**APPLICATION FEES:** An applicant for *Initial Certification* must submit to the Department of Environmental Quality, Water Sciences Section, a non-refundable fee of three hundred dollars ($300.00) for the evaluation and processing of each application.Please make your check payable to: DEQ/DWR Water Sciences Section. If you wish to pay electronically by check, credit or debit card, contact the Laboratory Certification Branch office.

**ANNUAL FEES:** Annual Certification Fees will be calculated in accordance with 15A NCAC 2H .0800. An annual minimum fee of $1750.00 will be assessed to all Municipal, Industrial, and Other laboratories. Commercial laboratories must pay an annual minimum fee of $3,500.00. Initial certification fees shall be prorated on a quarterly basis. ***Do not submit annual fees until you are issued an invoice. Invoices will be issued after completion of the application process.***

**RECIPROCITY:** For reciprocal Certification, submit a copy of the current certificate, a list of accredited Fields of Testing, proficiency testing results for samples analyzed within the six months prior to this application, the most recent on-site inspection report and corrective actions response. Reciprocity is not guaranteed. In some cases, submitted documentation may be insufficient to grant Certification by reciprocity and an on-site inspection will be performed.

**Section A:** Facility and Contact Information

Facility Name:

EPA Lab Code: \_\_\_\_\_\_

Contact Person\*: Mr. Ms. Dr. (circle one) Telephone #, ext.

Contact Person E-Mail Address:

Laboratory Manager \*\*: Mr. Ms. Dr. (circle one) Telephone #, ext.

Laboratory Manager E-Mail Address:

Laboratory Supervisor: Mr. Ms. Dr. (circle one) Telephone #, ext.

Laboratory Supervisor E-Mail Address:

Quality Assurance Officer (if applicable): Mr. Ms. Dr. (circle one) Telephone #, ext.

Quality Assurance Officer E-Mail address:

Facility Address: City State Zip

Mailing Address: City State Zip

County (NC applicant only)*:*  Fax Number:

Billing Address: City State Zip

Billing Contact Person\*: Mr. Ms. Dr. (circle one) Telephone #, ext.

Billing Contact Person E-Mail Address:

\* For North Carolina Wastewater/Groundwater Laboratory Certification Branch (NC WW/GW LCB) purposes, the Contact Person may also be either the Laboratory Supervisor or the Laboratory Manager.

\*\* For NC WW/GW LCB purposes, the Laboratory Manager shall be administratively above the Laboratory Supervisor (they cannot be the same person except at commercial laboratories where the owner is the laboratory supervisor and there is no one administratively above the laboratory supervisor).

**Section B:** Laboratory Supervisor Information **NOTE**: An attached resume may be substituted for this section.

1. Education: List the College(s), University(ies), or Technical Institute(s) attended, dates of attendance and degree received.

1. Experience: List work-related experience, indicating the employer, years of employment, and basic job description. Also list pertinent licenses, Operator Certification and grade, etc.

1. References: List three people familiar with your professional competency, provide contact information for each in the form of a telephone number or e-mail address.

**Section C:** Laboratory Information

1. Application Type

▭ Initial Certification ▭ Initial Certification by Reciprocity\* Reciprocal State or Accrediting Body:

\* Reciprocity will be granted for initial Certification only. Maintenance inspections may be performed by the NC WW/GW LC program.

1. Description of Laboratory (check all that apply)

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| MUNICIPAL, INDUSTRIAL, OTHER | COMMERCIAL LABORATORY(fees charged for analytical services) | TYPES OF SAMPLES PROCESSED |
| Municipal Wastewater Laboratory |  | Commercial Laboratory |  | Wastewater Effluent |  |
| State/County Health Laboratory |  | Commercial Mobile Laboratory |  | Industrial |  |
| Other State Laboratory |  |  |  | Pretreatment |  |
| University/Academic Laboratory |  |  |  | Groundwater |  |
| Municipal Public Water Supply |  |  |  | Surface Waters |  |
| Industrial Laboratory |  |  |  | UST (Underground Storage Tanks) |  |
|  |  |  |  | Hazardous Waste |  |
|  |  |  |  | Soils/Sediment/Sludge |  |
|  |  |  |  | Reclaimed Water |  |
|  |  |  |  | Other (specify) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |  |

Please list all applicable permit number(s) [e.g., NC0001215, NCG680012, WQ0057791] permit type (e.g., ground water, spray irrigation, non-discharge, etc.) and county location below. Additional sheets may be attached if necessary.

**This section may not be applicable to Commercial Laboratories.**

PERMIT # PERMIT TYPE: COUNTY:

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**Section D:** Quality Assurance

Proficiency Testing (PT) - Prior to issuance of Certification, this office ***must receive acceptable PT sample results*** from a NELAC approved provider for each of the requested parameter methods for which Certification is requested and for which PT samples are available (refer to the NC WW/GW LC website for required PTs). All testing rounds must have occurred within the six months prior to the date of application. For multi-analyte parameters (e.g., Purgeable Organics), results for all spiked components from the primary list of the target group must be reported. Alternatively, the laboratory may appeal to report an abbreviated list if they can demonstrate that the abbreviated list will be a routine reporting scheme for North Carolina client data reporting.

Are PT samples for each of the requested analytical parameter methods being sent to the NC WW/GW Laboratory Certification program?

Yes \_\_\_\_ No \_\_\_\_ If not supplied, are they on order? Yes \_\_\_\_ No \_\_\_\_ Anticipated Completion Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Results are not supplied for the following parameter methods: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Submit *one* copy of the Laboratory's Quality Assurance Manual**, which must include the following: Established quality control limits (where appropriate to the method) for all requested parameter methods; Standard Operating Procedures (SOPs) for each method for which Certification is requested; A listing of major equipment used in the analytical testing processes; A description of how a documented training program is administered; A description of how Proficiency Testing is administered.

If a Quality Assurance Manual containing the above elements is not submitted, Individual SOPs containing the required information pertinent to each parameter method may be submitted.

When applicable, submit calculated Minimum Detection Limits (MDLs) and Initial Demonstration of Capability (IDOCs) studies along with the associated raw data. MDL studies must be performed as specified by 40 CFR Part 136, Appendix B.

**Section E:** Analytical Methods

Parameter methods for which Certification may be requested are listed below. **This list is not all inclusive but represents the parameter methods most often requested. Submit a request for additional parameter methods by writing the reference and method number in the “Other” column next to the appropriate parameter.**

**Method Selection:** Please circle each method for which you are requesting Certification and specify the lower reporting limit. If the method does not appear, you may write it in the “Other” column. Be sure to include the complete method reference and specify the desired matrix as described below. Note: For all organic analytical categories, please attach a typed list of analyte-specific lower reporting limits. Note: DO NOT provide us with the laboratory method detection limit, unless the lower reporting limit and method detection limit are the same.

**Matrix Specification:** Methods highlighted in **blue are only applicable to aqueous** samples. Methods highlighted in **brown are only applicable to non-aqueous** samples. Simply circling the appropriate method will specify the matrix. Methods highlighted in **green are applicable to both aqueous and non-aqueous samples**.

**NOTE: POLYCHLORINATED BIPHENYLS (PCBs) by SW-846 8082 A is also available in an OIL matrix. If you want that, write “Oil” next to the matrix selection number.**

When selecting green highlighted methods**, indicate the desired matrix in the space to the right using the following number scheme;**

**1 = Aqueous 2 = Non-Aqueous 3 = Both Aqueous and Non-Aqueous**

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| **Inorganic Analytical Parameters** | **Technology** | **EPA Methods** | **Standard Methods** | **EPA SW-846**  | **Other****(Include Reference and Method No.)** | **Lower Reporting Limit Conc. (Include Units)** |
|
| Acidity | Titration |   | 2310 B-2011 |   |   |   |
| Alkalinity | Titration |   | 2320 B-2011 |   |   |   |
| Automated | 310.2, Rev. 1974 |   |   |   |   |
| Biochemical Oxygen Demand (BOD5) | D.O. Depletion |   | 5210 B-2016 |   |   |   |
| Luminescence Based Sensor |   | 5210 B-2016 |   | In-Situ 1003-8-2009 |   |

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| **Inorganic Analytical Parameters** | **Technology** | **EPA Methods** | **Standard Methods** | **EPA SW-846**  | **Other****(Include Reference and Method No.)** | **Lower Reporting Limit Conc. (Include Units)** |
| Bromide | Ion Chromatography | 300.1, Rev. 1.0 (1997) | 4110 B-2011 |  |  |  |
| 300.0, Rev. 2.1 (1993) |  | 4110 C-2011 | 9056A |  |  |  |
| 4110 D-2011 |
| Electrode |  |  |  | ASTM D1246-16 |  |
| Carbonaceous BOD, (CBOD5)  | D.O. Depletion with Nitrification Inhibitor |   | 5210 B-2016 |   |   |   |
| Luminescence Based Sensor |   | 5210 B-2016 |   | In-Situ 1004-8-2009 |   |
| Chemical Oxygen Demand, (COD) | Titrimetric | 410.3, Rev.1978 | 5220 C-2011 |   | ASTM D1252-06 (A) |   |
| Spectrophotometric | 410.4, Rev. 2.0 (1993) | 5220 D-2011 |    | ASTM D1252-06 (B) |   |
| Hach 8000 |   |
| Chloride | Titrimetric (AgNO3) |   | 4500-Cl- B-2011  | 9253 |   |   |
| Titrimetric (HgNO3) |   | 4500-Cl- C-2011 |   |   |   |
| Automated Continuous Flow |   | 4500-Cl- E-2011 | 9251 | SEAL 124-A Rev. 6  |   |
| IC | 300.1-1, Rev. 1.0 (1997) | 4110 B-20114110 C-2011 |  |  USGS I-2057-90 |   |
| 300.0, Rev. 2.1 (1993) |  | 9056A |  |  |
| Electrode |   |   |   | ASTM D512-04 (C) |   |

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| **Inorganic Analytical Parameters** | **Technology** | **EPA Methods** | **Standard Methods** | **EPA SW-846**  | **Other****(Include Reference and Method No.)** | **Lower Reporting Limit Conc. (Include Units)** |
|
| Chlorine, Free Available | Amperometric |  | 4500-Cl D-2011 |  |  |  |
| DPD-FAS |  | 4500-Cl F-2011 |  |  |  |
| Spectrophotometric, DPD |  | 4500-Cl G-2011 |  |  |  |
| Chlorine, Total Residual | Iodometric Titration I |   | 4500-Cl B-2011 |   |   |   |
| Back Titration (either end-point) |   | 4500-Cl C-2011 |   | Hach 10025 ULR  |   |
| Amperometric Titration |   | 4500-Cl D-2011 |   | Hach 10026 ULR |   |
| Low-Level Amperometric Titration |   | 4500-Cl E-2011 |   |   |   |
| DPD Colorimetric |   | 4500-Cl G-2011 |   | Hach 10014 ULR |   |
| Hach 8167 HR |  |
| Hach 10070 HR |  |
| DPD-FAS |  | 4500-Cl F-2011 |  |  |  |
| Electrode |   |   |   | Orion Electrode, 1977 |   |
| Color | PtCo – Visual Comparison |   | 2120 B-2011  |   | NCASI 71.01 (PtCo) |   |
| NCASI 253 (PtCo)  |  |
| ADMI - Tristimulus |   | 2120 E-1993 # |   |   |   |
| ADMI – Weighted-Ordinate |  | 2120 F-2011  |  |  |  |
| Conductivity at 25ºC |  Wheatstone Bridge | 120.1, Rev. 1982 | 2510 B-2011 | 9050A |   |   |

# Requires site-specific ATP approval

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| **Inorganic Analytical Parameters** | **Technology** | **EPA Methods** | **Standard Methods** | **EPA SW-846**  | **Other****(Include Reference and Method No.)** | **Lower Reporting Limit Conc. (Include Units)** |
| Cyanide, Total | Titrimetric |   | 4500-CN- D-2016 |  | 9014 |  |   |   |
| Spectrophotometric, Manual |   | 4500-CN- E-2016 |  | 9014 |  |   |   |
| Ion Selective Electrode |   | 4500-CN- F-2016 |  |   |   |   |
| Manual or Semi-automated prep with (**circle one**):FI/Gas Diffusion Amp,Titrimetric,Spectrophotometric | 335.4, Rev 1.0 (1993) |   | 9012B |  | Lachat10-204-00-1-X  |  |   |
| Automated UV digestion/distillation and Colorimetric |   |   |   | Kelada-01 |   |
| Segmented Flow Injection Analysis, In-Line Ultraviolet Digestion and Amperometric Detection |  |  |  | ASTM D7511-12 (17) |  |
| Cyanide, Amenable | Titrimetric |  | 4500-CN-  G D-2016 |  | 9012B |  |  |  |
| 9014 |  |  |
| Spectrophotometric |   | 4500-CN-  G E-2016 |  | 9012B |  |  |  |
| 9014 |  |
| Cyanide, Available | FIA/Ligand Exchange |   |   |   | OIA-1677-09 |   |
| Automated Distillation and Colorimetry |   |   |   | Kelada-01 |   |

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| **Inorganic Analytical Parameters** | **Technology** | **EPA Methods** | **Standard Methods** | **EPA SW-846**  | **Other****(Include Reference and Method No.)** | **Lower Reporting Limit Conc. (Include Units)** |
| Dissolved Organic Carbon (DOC) | Combustion  |   | 5310 B-2014 |  |   |   |
| Heated Persulfate or UV Oxidation |   | 5310 C-2014 |  |   |   |
|   | 5310 D-2011 |   |   |   |
| Dissolved Oxygen (DO) | Winkler  |   | 4500-O C-2016 |   |   |   |
| Electrode |   | 4500-O G-2016 |   | ASTM D888-12 (B)  |   |
| Luminescence Based Sensor |    | 4500-O H-2016   |   | ASTM D888-12 (C) |   |
|   | Hach10360 |   |
|  | In-Situ 1002-8-2009  |  |
| Flash Point | Pensky-Martens Closed-Cup Tester |   |   | 1010B (D93-79) |  |  |
| 1010B (D93-80) |
| 1010B (D8175-18) |
| Setaflash(Small Scale)Closed-Cup Tester |  |  | 1020C (D3278-78) |  |  |
| 1020C (D8174-18) |
| Fluoride | Electrode |   | 4500-F- C-2011  | 9214 |  |   |   |
| Manual Colorimetric |   | 4500-F- D-2011 |   |   |   |
| Automated |   | 4500-F- E-2011 |   |   |   |
| IC | 300.1-1, Rev. 1.0 (1997) | 4110 B-2011 | 9056A |  |   |   |
| 300.0, Rev. 2.1(1993) |  |  |

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| **Inorganic Analytical Parameters** | **Technology** | **EPA Methods** | **Standard Methods** | **EPA SW-846**  | **Other****(Include Reference and Method No.)** | **Lower Reporting Limit Conc. (Include Units)** |
| Hardness, Total | Automated | 130.1(1971) |   |   |   |   |
| Titrimetric (EDTA) |    | 2340 C-2011 |   |   |   |
| Ignitability | Powder Train |    |    | 1030 |    |    |
| MBAS as Surfactants  | Manual Colorimetric |   | 5540 C-2011 |   |   |   |
| Nitrogen, Ammonia | Titration |   | 4500-NH3 C-2011 |  |   |   |   |
| Electrode |   | 4500-NH3D-2011 |   |   |   |
|   | 4500-NH3E-2011 |   |   |   |
| Ion Chromatography |  |  |  | ASTM D 6919-09 |  |
| Automated Phenate, salicylate, or other substituted phenols in Berthelot reaction-based methods | 350.1, Rev. 2.0 (1993) | 4500-NH3G-2011 |   |   |   |
|   | 4500-NH3H-2011 |   |   |   |
| Continuous Gas Diffusion/ Conductivity Cell Analysis |  |  |  | Timberline Ammonia-001, June 2011 |  |

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| **Inorganic Analytical Parameters** | **Technology** | **EPA Methods** | **Standard Methods** | **EPA SW-846**  | **Other****(Include Reference and Method No.)** | **Lower Reporting Limit Conc. (Include Units)** |
| Nitrogen, Total Kjeldahl (**please indicate the determinative method with the preparation method**) | Prep |   | 4500-Norg B-2011  |  |   |   |   |
| 4500-Norg C-2011 |  |  |
| Titration |   | 4500-NH3 C-2011 |  |   |  |   |
| Electrode |   | 4500-NH3 D-2011 |  |   |   |   |
| Electrode |   | 4500-NH3E-2011 |  |   |   |   |
| Manual Phenate, salicylate, or other substituted phenols in Berthelot reaction-based methods |  | 4500-NH3F-2011  |  |  |  |  |
| Semi-Automated Phenate | 350.1, Rev. 2.0 (1993) | 4500-NH3G-2011  |  |  |  |  |
| Automated Phenate(No Separate Prep Method) | 351.1(1978) |  |   |   |   |
| Semi-automated block digester colorimetric (distillation not required) | 351.2, Rev. 2.0 (1993) | 4500 Norg D-2011 |  | Devarda’s AlloyEPA 351.2, Rev. 2.0, (1993) (1)   |   |
| Digestion with peroxodisulfate, followed by Spectrophotometric (2,6-dimethyl phenol) |  |  |  |  Hach 10242 |  |

 (1) Animal Waste Nutrient Management (AWNM).

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| **Inorganic Analytical Parameters** | **Technology** | **EPA Methods** | **Standard Methods** | **EPA SW-846**  | **Other****(Include Reference and Method No.)** | **Lower Reporting Limit Conc. (Include Units)** |
| Nitrogen, Nitrate+Nitrite  | Cadmium Reduction, Manual |   | 4500-NO3- E-2016 |   |   |   |
| Cadmium Reduction, Automated | 353.2, Rev. 2.0 (1993) | 4500-NO3- F-2016 |   |  EPA 353.2, Rev. 2.0, 1993 [SEAL 126-A] |   |
| 4500-NO3- I-2016 |
| Automated Hydrazine |   | 4500-NO3- H-2016 |   |   |   |
| Enzymatic reduction, followed by manual colorimetric determination |  | 4500-NO3- J-2018 |  |  |  |
| IC | 300.1-1, Rev. 1.0 (1997) | 4110 B-2011 | 9056A |  |   |   |
| 300.0, Rev. 2.1 (1993) |  |  |
| Spectrophotometric (2,6-dimethyl phenol) |  |  |  | Hach 10206 |  |
| Nitrogen, Nitrate  | Colorimetric(Brucine Sulfate) | 352.1(1971) |   |   |   |   |
| Electrode |   | 4500-NO3- D-2016 |   |   |   |
| IC | 300.1-1, Rev. 1.0 (1997) | 4110 B-2011 | 9056A |  |   |   |
| 300.0, Rev. 2.1 (1993) |  |
| Spectrophotometric (2,6-dimethylphenol) |  |  |  | Hach 10206 |  |
| Calculation |   | Nitrate-nitrite N minus Nitrite N **Note determinative methods here:**NO3+NO2: NO2:   |   |   |

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| **Inorganic Analytical Parameters** | **Technology** | **EPA Methods** | **Standard Methods** | **EPA SW-846**  | **Other****(Include Reference and Method No.)** | **Lower Reporting Limit Conc. (Include Units)** |
| Nitrogen, Nitrite  | Automated Bypass Cadmium Reduction | 353.2, Rev. 2.0 (1993) | 4500-NO3- F-2016 |   | ASTM D3867-04 (A)  |   |
| 4500-NO3- I-2016 |
| Spectrophotometric: Manual |   | 4500-NO2- B-2011 |   | Hach 8507 |   |
| Manual Bypass Cadmium Reduction |   | 4500-NO3-E-2016 |   | ASTM D3867-04 (B) |   |
| Enzymatic reduction, followed by manual colorimetric determination |  | 4500-NO3-J-2018 |  |  |  |
| IC | 300.1-1, Rev. 1.0 (1997) | 4110 B-2011 | 9056A |  |   |   |
| 300.0, Rev. 2.1 (1993) |  |  |
| Oil & Grease, HEM  | Gravimetric | 1664 Rev. B | 5520 B-2011 | 9070A |   |   |
|   |   | 9071B |   |   |
| Ortho-phosphate | Manual Colorimetric | 365.3 (1978) | 4500-P E-2011 |   |   |   |
| Automated | 365.1, Rev. 2.0 (1993) | 4500-P F-2011 |   |   |   |
| IC | 300.1-1, Rev. 1.0 (1997) | 4110 B-2011 | 9056A |  |   |   |
| 300.0, Rev. 2.1 (1993) |  |
| Paint Filter Liquids | Gravimetric |   |   | 9095B |  |   |   |
| pH | Electrode |   | 4500-H+ B-2011 | 9040C |  |   |
|   |   | 9045D |   |   |
| Automated Electrode  | 150.2 (1982) |   |   |   |   |

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| **Inorganic Analytical Parameters** | **Technology** | **EPA Methods** | **Standard Methods** | **EPA SW-846**  | **Other****(Include Reference and Method No.)** | **Lower Reporting Limit Conc. (Include Units)** |
| Phenols, Inorganic | Manual Colorimetric | 420.1 (1978) |   | 9065 |   |   |
| Automated Colorimetric | 420.4, Rev. 1.0 (1993) |    | 9066 |    |    |
| Phosphorus, Total | Manual Colorimetric | 365.3 (1978) | 4500-P E-2011 |   |  |   |
| Automated | 365.1, Rev. 2.0 (1993) | 4500-P F-20114500-P G-2011 |   |   |   |
| 365.4 (1974) |   |   |   |   |
| ICP-AES | 200.7, Rev. 4.4 (1994) |  |   | 6010D |  |   |   |
| Mehlich 3 Extraction (1)(**please note determinative method here**): |   |   |   |  |   |
| Residue, Settleable | Volumetric |   | 2540 F-2015 |   |   |   |
| Residue, Total | Gravimetric |   | 2540 B-2015 |   |   |   |
| Residue, Total Dissolved | Gravimetric |   | 2540 C-2015 |   |   |   |
| Residue, Total Suspended | Gravimetric |   | 2540 D-2015 |   |   |   |
| Residue, Volatile | Gravimetric | 160.4 (1971)  | 2540 E-2015 |   |   |   |
| Salinity | Electrical Conductivity |   | 2520 B-2011 |   |   |   |

 (1) Animal Waste Nutrient Management (AWNM).

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| **Inorganic Analytical Parameters** | **Technology** | **EPA Methods** | **Standard Methods** | **EPA SW-846**  | **Other****(Include Reference and Method No.)** | **Lower Reporting Limit Conc. (Include Units)** |
| Sulfate | Automated | 375.2, Rev. 2.0 (1993) |  |   |   |   |
| Gravimetric |   | 4500-SO42- C-2011 |   |   |   |
|   | 4500-SO42- D-2011 |   |   |   |
| Turbidimetric |   | 4500-SO42- E-2011 | 9038 | ASTM D516-16 |   |
| IC | 300.1-1, Rev. 1.0 (1997) | 4110 B-2011 | 9056A |  |   |   |
| 300.0, Rev. 2.1 (1993) |  |  |
| Sulfide | Titrimetric |   | 4500-S2- F-2011 |  | 9034 |  |   |   |
|   |   | 9031 |   |   |
| Manual Colorimetric |   | 4500-S2- D-2011 |  |   |  |   |
| Sulfite | Titrimetric |   | 4500 S032- B-2011 |   |  |   |
| Temperature | Thermometric |   | 2550 B-2010 |   | USGS Method 1975 |   |
| Total Organic Carbon, (TOC)  | Combustion  |   | 5310 B-2014 | 9060A |   |   |
| Heated Persulfate or UV Oxidation |   | 5310 C-2014 | 9060A |   |   |
|   | 5310 D-2011 |  |   |   |
| Turbidity | Nephelometric | 180.1, Rev. 2.0 (1993) | 2130 B -2011 |   | Mitchell M2571, Rev. 1.0 (2008)  |   |
| Mitchell M2571, Rev. 1.0 (2008) (inline) |

(1) Animal Waste Nutrient Management (AWNM).

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| **Biological Analytical Parameters** | **Technology** | **EPA Methods** | **Standard Methods** | **EPA SW-846**  | **Other****(Include Reference and Method No.)** | **Lower Reporting Limit Conc. (Include Units)** |
|
| Chlorophyll *a* | Fluorometric | 445.0, Rev. 1.2 | 10200 H-2011 |   |   |   |
| Spectrophotometric | 446.0, Rev. 1.2 | 10200 H-2011 |  |  |  |
| Coliform, Fecal (MF) | MF | p.124(2), 1978 | 9222 D-2015 |   |  |   |
| MF |  | 9222 D-2015 (**Biosolids)** |  |  |  |
| Coliform, Fecal (MPN) | MPN | p.132(2), 1978 | 9221 E-2014 |   | Colilert ®18 |   |
| 1680  (**Biosolids)** | 9221 E-2014**(Biosolids)** |   |  |   |
| 1681**(Biosolids)** |   |   |  |   |
| Coliform, Total (MF) | MF | p.108(2)  | 9222 B-2015 |   |   |   |
| Coliform, Total (MPN) | MPN | p.114(2)  | 9221 B-2014 |   |   |   |
| Enterococci | MPN |   | 9230 B-2013  |   | ASTM D6503-99 |   |
| MPN |   |  9230 D-2013  |   | Enterolert® (IDEXX) |   |
| MF | 1600 |  9230 C-2013  |   |   |   |
| Escherichia Coliform (E. coli) | MPN |   | 9223 B-2016 |   | Colilert® (24 hr) |   |
| Colilert-18® |
| MF | 1603 |   |   | mColiBlue-24® |   |
| Salmonella | MPN | 1682 |  |  |  |  |
| MF |  |  |  | Kenner & Clark, 1974 |  |

(2) Microbiological Methods for Monitoring the Environment, Water, and Wastes, EPA/600/8-78/017. 1978. US EPA.**Vector Attraction Reduction (VAR)**

**Note:** Vector Attraction Reduction requirements are now covered under 15A NCAC 02T Permit Rules. The Rule pertaining to Vector Attraction Reduction requirements can be found on the Laboratory Certification website at <https://deq.nc.gov/about/divisions/water-resources/water-resources-data/water-sciences-home-page/laboratory-certification-branch/rules-regulations-0>.

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| --- | --- |
| VAR Options AvailableMethod Reference for each:"Control of Pathogens and Vector Attraction in Sewage Sludge" - EPA/625/R-92/013 revised July 2003 | Indicate with a check mark *all* options used by your facility. |
| Option 1: Reduction in Volatile Solids Content |  |
| Option 2: Additional Digestion of Anaerobically Digested Sewage Sludge |  |
| Option 3: Additional Digestion of Aerobically Digested Sewage Sludge |  |
| Option 4: Specific Oxygen Uptake Rate (SOUR) for Aerobically Digested Sewage Sludge |  |
| Option 5: Aerobic Processes, Greater Than 40C |  |
| Option 6: Addition of Alkali  |  |
| Option 7: Moisture Reduction of Sewage Sludge Containing No Unstabilized Solids |  |
| Option 8: Moisture Reduction of Sewage Sludge Containing Unstabilized Solids |  |
| Option 12: Raising the pH of Domestic Septage |  |

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| **Metals** | **Technology** | **EPA Methods** | **Standard Methods** | **EPA** **SW- 846**  | **Other****(Include Reference and Method No.)** | **Lower Reporting Limit Conc. (Include Units)** |
|
| Aluminum | FAA |   | 3111 D-2011 |  | 7000 B |  |   |   |
|  | 3111 E-2011 |  |  |  |  |
| GFAA |  | 3113 B-2010 |  |   |   |   |
| STGFAA | 200.9, Rev. 2.2 (1994) |  |  |  |  |  |
| ICP/AES | 200.7, Rev. 4.4 (1994) |  | 3120 B-2011 |  | 6010 D |  |   |   |
| ICP/MS | 200.8, Rev. 5.4 (1994) |  |   | 6020 B |  |   |   |
| Manual Colorimetric |   | 3500-Al B-2011  |  |   |   |   |
| Antimony | FAA |   | 3111 B-2011 |  | 7000 B |  |   |   |
| GFAA |  | 3113 B-2010 |  | 7010 |  |   |   |
| STGFAA | 200.9, Rev. 2.2 (1994) |  |  |  |  |  |
| ICP/AES | 200.7, Rev. 4.4 (1994) |  | 3120 B-2011 |  | 6010 D |  |   |   |
| ICP/MS | 200.8, Rev. 5.4 (1994) |  |   | 6020 B |  |   |   |
| Arsenic | GFAA  |  | 3113 B-2010 |  | 7010 |  |   |   |
| STGFAA | 200.9, Rev. 2.2 (1994) |  |  |  |  |  |
| FAA  |   | 3114 B-2011 |  | 7061 A |  |   |   |
|  | 3114 C-2011 |  | 7062 |  |
| ICP/AES | 200.7, Rev. 4.4 (1994) |  | 3120 B-2011 |  | 6010 D |  |   |   |
| ICP/MS | 200.8, Rev. 5.4 (1994) |  |   | 6020 B |  |   |   |
| Manual Colorimetric |   | 3500-As B-2011  |  |  |   |   |
| Barium | FAA |   | 3111 D-2011 |  | 7000 B |  |  |   |
| GFAA |   | 3113 B-2010 |  | 7010 |  |   |   |
| ICP/AES | 200.7, Rev. 4.4 (1994) |  | 3120 B-2011 |  | 6010 D |  |   |   |
| ICP/MS | 200.8, Rev. 5.4 (1994) |  |   | 6020 B |  |   |   |

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| **Metals** | **Technology** | **EPA Methods** | **Standard Methods** | **EPA** **SW- 846**  | **Other****(Include Reference and Method No.)** | **Lower Reporting Limit Conc. (Include Units)** |
| Beryllium | FAA |   | 3111 D-2011 |  | 7000 B |  |   |   |
| GFAA |  | 3113 B-2010 |  | 7010 |  |   |   |
| STGFAA | 200.9, Rev. 2.2 (1994) |  |  |  |  |  |
| ICP/AES | 200.7, Rev. 4.4 (1994) |  | 3120 B-2011 |  | 6010 D |  |   |   |
| ICP/MS | 200.8, Rev. 5.4 (1994) |  |   | 6020 B |  |   |   |
| Boron | ICP/AES | 200.7, Rev. 4.4 (1994) |  | 3120 B-2011 |  | 6010 D |  |   |   |
| ICP/MS | 200.8, Rev. 5.4 (1994) |  |   | 6020 B |  |   |   |
| Cadmium | FAA |   | 3111 B-2011 |  | 7000 B |  |  |   |
|  | 3111 C-2011 |  |  |  |  |
| GFAA |  | 3113 B-2010 |  | 7010 |  |   |   |
| STGFAA | 200.9, Rev. 2.2 (1994) |  |  |  |  |  |
| ICP/AES | 200.7, Rev. 4.4 (1994) |  | 3120 B-2011 |  | 6010 D |  |   |   |
| ICP/MS | 200.8, Rev. 5.4 (1994) |  |   | 6020 B |  |   |   |
| Manual Colorimetric |   | 3500-Cd D-1990 |  |   |   |   |
| Calcium | FAA |   | 3111 B-2011 |  | 7000 B |  |   |   |
| ICP/AES | 200.7, Rev. 4.4 (1994) |  | 3120 B-2011 |  | 6010 D |  |  |   |
| ICP/MS | 200.8, Rev. 5.4 (1994) |  |   | 6020 B |  |   |   |
| Titrimetric (EDTA) |   | 3500-Ca B-2011  |  |   |   |   |
| Mehlich 3Extraction (1) |   |   | 6010 D |  |   |

(1) Animal Waste Nutrient Management (AWNM).

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| **Metals** | **Technology** | **EPA Methods** | **Standard Methods** | **EPA** **SW- 846**  | **Other****(Include Reference and Method No.)** | **Lower Reporting Limit Conc. (Include Units)** |
| Chromium, Total | FAA |   | 3111 B-2011 |  | 7000 B |  |   |   |
|  | 3111 C-2011 |  |  |  |  |
| GFAA |  | 3113 B-2010 |  | 7010 |  |   |   |
| STGFAA | 200.9, Rev. 2.2 (1994) |  |  |  |  |  |
| ICP/AES | 200.7, Rev. 4.4 (1994) |  | 3120 B-2011 |  | 6010 D |  |  |   |
| ICP/MS | 200.8, Rev. 5.4 (1994) |  |   | 6020 B |  |   |   |
| Manual Colorimetric |   | 3500-Cr B-2011  |  |   |   |   |
| Chromium VI | FAA |   | 3111 C-1999 |  |   |   |   |
| Ion Chromatography | 218.6, Rev. 3.3 (1994) | 3500-Cr C-2011 |  | 7199\* |  |   |   |
| Manual Colorimetric |   | 3500-Cr B-2011  |  | 7196 A |  |  |   |
| Cobalt | FAA |   | 3111 B-2011 |  | 7000 B |  |   |   |
|  | 3111 C-2011 |  |  |  |  |
| GFAA |  | 3113 B-2010 |  | 7010 |  |   |   |
| STGFAA | 200.9, Rev. 2.2 (1994) |  |  |  |  |  |
| ICP/AES | 200.7, Rev. 4.4 (1994) |  | 3120 B-2011 |  | 6010 D |  |   |   |
| ICP/MS | 200.8, Rev. 5.4 (1994) |  |   | 6020 B |  |   |   |

\*SW-846 7199 (Non-Aqueous) requires digestion by SW-846 3060 A.

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| **Metals** | **Technology** | **EPA Methods** | **Standard Methods** | **EPA** **SW- 846**  | **Other****(Include Reference and Method No.)** | **Lower Reporting Limit Conc. (Include Units)** |
| Copper | FAA |   | 3111 B-2011 |  | 7000 B |  |   |   |
|  | 3111 C-2011 |  |  |  |  |  |
| GFAA |  | 3113 B-2010 |  | 7010 |  |  |  |
| STGFAA | 200.9, Rev. 2.2 (1994) |  |  |  |  |  |  |
| ICP/AES | 200.7, Rev. 4.4 (1994) |  | 3120 B-2011 |  | 6010 D |  |  |  |
| ICP/MS | 200.8, Rev. 5.4 (1994) |  |  | 6020 B |  |  |  |
| Manual Colorimetric |  |  | 3500-Cu B-2011  |  |  |  |  |  |
| Mehlich 3Extraction (1) | 200.7, Rev. 4.4 (1994) |  | 6010 D |  |  |
| Hardness (Ca + Mg) | Calculation, Ca plus Mg as their carbonates - **Note determinative method(s) here:**Ca – Mg –  |  | 2340 B-2011 |  |  |  |
| Iron | FAA |  |  | 3111 B-2011 |  | 7000 B |  |  |  |
| 3111 C-2011 |  |
| GFAA |  |  | 3113 B-2010 |  | 7010 |  |  |  |
| ICP/AES | 200.7, Rev. 4.4 (1994) |  | 3120 B-2011 |  | 6010 D |  |  |  |
| ICP/MS | 200.8, Rev. 5.4 (1994) |  |  | 6020 B |  |  |  |
| Manual Colorimetric |  |  | 3500-Fe B-2011 |  |  |  |  |  |
| **Metals** | **Technology** | **EPA Methods** | **Standard Methods** | **EPA** **SW- 846**  | **Other****(Include Reference and Method No.)** | **Lower Reporting Limit Conc. (Include Units)** |
| Lead | FAA |  | 3111 B-2011 |  | 7000 B |  |  |  |
|  | 3111 C-2011 |  |  |  |  |  |
| GFAA |  | 3113 B-2010 |  | 7010 |  |  |  |
| STGFAA | 200.9, Rev. 2.2 (1994) |  |  |  |  |  |  |  |
| ICP/AES | 200.7, Rev. 4.4 (1994) |  | 3120 B-2011 |  | 6010 D |  |  |  |
| ICP/MS | 200.8, Rev. 5.4 (1994) |  |  |  | 6020 B |  |  |  |
| Manual Colorimetric |  | 3500-Pb B-2011  |  |  |  |  |  |
| Lithium  | FAA |   | 3111 B-2011 |  | 7000 B |  |   |   |
| ICP/AES | 200.7, Rev. 4.4 (1994) |  |   | 6010 D |  |   |   |
| Magnesium | FAA |  | 3111 B-2011 |  | 7000 B |  |  |  |
| ICP/AES | 200.7, Rev. 4.4 (1994) |  | 3120 B-2011 |  | 6010 D |  |  |  |
| ICP/MS | 200.8, Rev. 5.4 (1994) |  |  | 6020 B |  |  |  |
| Mehlich 3Extraction (1) | 200.7, Rev. 4.4 (1994) |  | 6010 D |  |  |
| Manganese | FAA |  | 3111 B-2011 |  | 7000 B |  |  |  |
| GFAA |  | 3113 B-2010 |  | 7010 |  |  |  |
| STGFAA | 200.9, Rev. 2.2 (1994) |  |  |  |  |
| ICP/AES | 200.7, Rev. 4.4 (1994) |  | 3120 B-2011 |  | 6010 D |  |  |
| ICP/MS | 200.8, Rev. 5.4 (1994) |  |  | 6020 B |  |  |
| Manual Colorimetric |  | 3500-Mn B-2011  |  |  |  |  |
| Mehlich 3Extraction (1) | 200.7, Rev. 4.4 (1994) |  | 6010 D |  |  |
| (1) Animal Waste Nutrient Management (AWNM). |

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| **Metals** | **Technology** | **EPA Methods** | **Standard Methods** | **EPA** **SW- 846**  | **Other****(Include Reference and Method No.)** | **Lower Reporting Limit Conc. (Include Units)** |
| Mercury | CVAA, Manual | 245.1, Rev. 3.0 (1994)  | 3112 B-2011  |  | 7471 B |   |   |
| 7470 A |  |
| CVAA, Automated | 245.2 (Issued 1974) |  |  |  |  |
| CVAFS | 245.7, Rev. 2.0 (2005) |  |  |  |  |
| ICP/AES |   |   | 6010 D |  |   |   |
| ICP/MS |   |   | 6020 B |  |   |   |
| P&T/CVF | 1631E |   |   |   |   |
| Molybdenum | FAA |   | 3111 D-2011 |  | 7000 B |  |   |   |
| GFAA |   | 3113 B-2010 |  | 7010 |  |   |   |
| ICP/AES | 200.7, Rev. 4.4 (1994) |  | 3120 B-2011 |  | 6010 D |  |   |   |
| ICP/MS | 200.8, Rev. 5.4 (1994) |  |   | 6020 B |  |   |   |
| Nickel | FAA |   | 3111 B-2011 |  | 7000 B |  |   |   |
|  | 3111 C-2011 |  |  |  |  |
| GFAA |  | 3113 B-2010 |  | 7010 |  |   |   |
| STGFAA | 200.9, Rev. 2.2 (1994) |  |  |  |  |  |
| ICP/AES | 200.7, Rev. 4.4 (1994) |  | 3120 B-2011 |  | 6010 D |  |  |  |
| ICP/MS | 200.8, Rev. 5.4 (1994) |  |   | 6020 B |  |   |   |
| (1) Animal Waste Nutrient Management (AWNM). |

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| **Metals** | **Technology** | **EPA Methods** | **Standard Methods** | **EPA** **SW- 846**  | **Other****(Include Reference and Method No.)** | **Lower Reporting Limit Conc. (Include Units)** |
| Potassium | FAA |   | 3111 B-2011 |  | 7000 B |  |   |   |
| ICP/AES | 200.7, Rev. 4.4 (1994) |  | 3120 B-2011 |  | 6010 D |  |   |   |
| ICP/MS | 200.8, Rev. 5.4 (1994) |  |   | 6020 B |  |   |   |
| Mehlich 3Extraction (1) |   |   | 6010 D |  |   |
| Selenium | FAA |   | 3114 B-2011  |  | 7741A |  |   |   |
|  |  |
| GFAA |  | 3113 B-2010 |  | 7010 |  |   |   |
| STGFAA | 200.9, Rev. 2.2 (1994) |  |  |  |  |  |
| ICP/AES | 200.7, Rev. 4.4 (1994) |  | 3120 B-2011 |  | 6010 D |  |   |   |
| ICP/MS | 200.8, Rev. 5.4 (1994) |  |   | 6020 B |  |   |   |
| Silica | Manual Colorimetric |   | 4500-SiO2 C-2011 |  |   |   |   |
| ICP/AES | 200.7, Rev. 4.4 (1994) | 3120 B-2011 |  | 6010 D |  |   |   |
| Silver | FAA |   | 3111 B-2011 |  | 7000 B |  |  |   |
|  | 3111 C-2011 |  |  |  |  |
| GFAA |  | 3113 B-2010 |  | 7010 |  |   |   |
| STGFAA | 200.9, Rev. 2.2 (1994) |  |  |  |  |  |
| ICP/AES | 200.7, Rev. 4.4 (1994) |  | 3120 B-2011 |  | 6010 D |  |   |  |
| ICP/MS | 200.8, Rev. 5.4 (1994) |  |  | 6020 B |  |   |   |
| (1) Animal Waste Nutrient Management (AWNM). |

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| **Metals** | **Technology** | **EPA Methods** | **Standard Methods** | **EPA** **SW- 846**  | **Other****(Include Reference and Method No.)** | **Lower Reporting Limit Conc. (Include Units)** |
| Sodium | FAA |   | 3111 B-2011 |  | 7000 B |  |   |   |
| ICP/AES | 200.7, Rev. 4.4 (1994) |  | 3120 B-2011 |  | 6010 D |  |   |   |
| ICP/MS | 200.8, Rev. 5.4 (1994) |  |   | 6020 B |  |   |   |
| Mehlich 3Extraction (1) |   |   |   | 6010 D |   |
| Strontium | FAA |   | 3111 B-2011 |  | 7000 B |  |   |   |
| ICP/AES | 200.7, Rev. 4.4 (1994) |  | 3120 B-2011 |  | 6010 D |  |   |   |
| ICP/MS |  |  |   | 6020 B |  |   |   |
| Thallium | FAA |   | 3111 B-2011 |  | 7000 B |  |   |   |
| GFAA | 279.2 (Issued 1978) |   | 7010 |  |   |   |
| STGFAA | 200.9, Rev. 2.2 (1994) |  |  |  |  |  |
| ICP/AES | 200.7, Rev. 4.4 (1994) |  | 3120 B-2011 |  | 6010 D |  |   |   |
| ICP/MS | 200.8, Rev. 5.4 (1994) |  |   | 6020 B |  |   |   |
| Tin | FAA |   | 3111 B-2011 |  | 7000 B |  |   |   |
| GFAA |  | 3113 B-2010 |  |   |   |   |
| STGFAA | 200.9, Rev. 2.2 (1994) |  |  |  |  |  |
| ICP/AES | 200.7, Rev. 4.4 (1994) |  |   | 6010 D |  |   |   |
| ICP/MS | 200.8, Rev. 5.4 (1994) |  |   | 6020 B |  |   |   |
| (1) Animal Waste Nutrient Management (AWNM). |

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| **Metals** | **Technology** | **EPA Methods** | **Standard Methods** | **EPA** **SW- 846**  | **Other****(Include Reference and Method No.)** | **Lower Reporting Limit Conc. (Include Units)** |
| Titanium | FAA |   | 3111 D-2011 |  |   |   |   |
| ICP/AES | 200.7, Rev. 4.4 (1994) |  |   | 6010 D |  |   |   |
| ICP/MS | 200.8, Rev. 5.4 (1994) |  |   | 6020 B |  |   |   |
| Vanadium | FAA |   | 3111 D-2011 |  | 7000 B |  |   |   |
| GFAA |   |   | 7010 |  |   |   |
| ICP/AES | 200.7, Rev. 4.4 (1994) |  | 3120 B-2011 |  | 6010 D |  |   |   |
| ICP/MS | 200.8, Rev. 5.4 (1994) |  |   | 6020 B |  |   |   |
| Manual Colorimetric |   | 3500-V B-2011 |  |   |   |   |
| Zinc | FAA |   | 3111 B-2011 |  | 7000 B |  |  |   |
|  | 3111 C-2011 |  |  |  |  |
| GFAA |  |   | 7010 |  |   |   |
| ICP/AES | 200.7, Rev. 4.4 (1994) |  | 3120 B-2011 |  | 6010 D |  | USGS I-4471-97  |   |
| ICP/MS | 200.8, Rev. 5.4 (1994) |  |   | 6020 B |  |   |   |
| Manual Colorimetric |   | 3500 Zn B-2011 |  |   |   |   |
| Mehlich 3Extraction (1) | 200.7, Rev. 4.4 (1994) |  | 6010 D |  |   |
| (1) Animal Waste Nutrient Management (AWNM). |

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| **Organic Parameters Categories** | **Technology** | **EPA Methods** | **Standard Methods** | **EPA** **SW- 846**  | **Other****(Include Reference and Method No.)** |  |  |  |
|  |  |  |
| Purgeable Halocarbons | GC | 601 | 6200 C-2011 | 8021B |  |   |  |  |  |
| Purgeable Aromatics | GC | 602 | 6200 C-2011 | 8021B |  |   |  |  |  |
| Acrolein & Acrylonitrile,  | GC | 603  |   | 8031(Acrylonitrile)  |  |   |  |  |  |
| GC/MS | 624.1  |  |  |  |  |  |  |  |
| Acetonitrile | GC |  |  | 8033  |  |  |  |  |
| Organic Phenols | GC | 604 | 6420 B-2000 | 8041A |   |  |  |  |
| Benzidines | HPLC | 605 |   |   |   |  |  |  |
| Phthalate Esters | GC | 606 |   | 8061A |  |   |  |  |  |
| GC/MS |  | 6410 B-2000 |  |  |  |  |  |
| Explosives | HPLC |  |  | 8332 |  |  |  |  |  |
| Nitrosamines | GC | 607 |   | 8070A |   |
| Organochlorine Pesticides | GC |  608.3 | 6630 B-2007  | 8081B |  |   |  |  |  |
| 6630 C-2007  |
| Polychlorinated Biphenyls (PCBs) | GC | 608.3 |   | 8082A |  |   |  |  |  |
| Polychlorinated Biphenyls (PCBs) | GC/MS | 625.1 | 6410 B-2000 |  |  |  |  |  |
| Nitroaromatics & Isophorone | GC | 609 |   |   |   |  |  |  |
| Nitroaromatics & Nitramines | HPLC |   |   | 8330A |  |   |  |  |  |
| Polynuclear Aromatic Hydrocarbons (PAHs) | HPLC | 610 | 6440 B-2005 | 8310 |  |   |  |  |  |
| GC | 610 |   | 8100 |   |  |  |  |
| Haloethers | GC | 611 |   | 8111 |   |  |  |  |
| Chlorinated Hydrocarbons | GC | 612 |   | 8121 |  |   |  |  |  |
| Purgeable Organics | GC/MS | 624.1 | 6200 B-2011  | 8260D |  |   |  |  |  |
| 1624B |
| Base/Neutral & Acid Organics | GC/MS | 625.1 | 6410 B-2000 | 8270E |  |  |  |  |  |
| 1625B |
| **NOTE: POLYCHLORINATED BIPHENYLS (PCBs) by SW-846 8082 A is also available in an OIL matrix. If you want that, write “Oil” next to the matrix selection number.** |  |  |  |
| **Organic Parameters Categories** | **Technology** | **EPA Methods** | **Standard Methods** | **EPA** **SW- 846**  | **Other****(Include Reference and Method No.)** |  |  |  |
| Chlorinated Acid Herbicides | GC | 615 | 6640 B-2005 | 8151A |  |   |  |  |  |
| Organophosphorus Pesticides | GC | 614 |   | 8141B |  |   |  |  |  |
| Nonhalogenated Volatile Organics | GC |   |  | 8015C |  |   |  |  |  |
| N-Methylcarbamates | HPLC | 632 |  | 8318A |  |   |  |  |  |
| 1,2 - Dibromoethane (EDB) | GC | 504.1 |  | 8011 |   |  |  |  |
| Total Petroleum Hydrocarbons (TPH) Gasoline Range Organics | GC |   |   | 8015C |  |  |  |  |  |
| Total Petroleum Hydrocarbons (TPH) Diesel Range Organics | GC |   |   | 8015C |  |  |  |  |  |
| Extractable Petroleum Hydrocarbons (EPH)  | GC |  |  |  |  | Massachusetts Method, May 2004, rev. 1.1 |  |  |  |  |
| Volatile Petroleum Hydrocarbons(VPH)  | GC |  |  |  |  | Massachusetts Method, Feb 2018, rev. 2.1 |  |  |  |  |
| Chlorinated Phenolics | GC/MS | 1653, Rev A |  |  |  |  |  |  |  |
| Adsorbable Organic Halides  | Adsorption/ Titration | 1650, Rev C |  |  |  |  |  |  |  |
| Total Organic Halides (TOX) | Microcoulometer/ Titration Detector |  |  | 9020B |  |  |  |  |

**Section F:** Authorized Signature(s)

**This statement certifies that the information in this application is truthful and accurate, and that the applicant is aware of all regulations regarding the requirements of NC WW/GW Laboratory Certification, 15A NCAC 2H .0800.**

**Signature of Laboratory Manager Date**

**Print Name**

 **(First) (M.I.) (Last)**

**Signature of Laboratory Supervisor: Date**

**Print Name (First) (M.I.) (Last)**

Form#100-app 11/14/01

Revised 07/19/2021