

**Performance Work Statement
For USACE BALTIMORE DISTRICT
WASHINGTON AQUEDUCT DIVISION**

**Contract Laboratory Water Sample
Testing Services**

IDIQ Contract

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1. Introduction: The Washington Aqueduct (WA), a division of the Baltimore District United States Army Corps of Engineers, produces drinking water for over one million citizens living, working, and visiting in the District of Columbia, Arlington County, Virginia, and the City of Falls Church, Virginia, and its service area. WA has the responsibility to provide safe, reliable, cost-effective drinking water 24 hours a day, seven days a week. The Aqueduct is a federally-owned and operated public water supply agency that produces an average of 180 million gallons of water per day at two treatment plants located in the District of Columbia. All funding for operations, maintenance, and capital improvements comes from revenue generated by selling drinking water to the three jurisdictions.

The Washington Aqueduct is a critical infrastructure that operates two water treatment plants (WTPs), the Dalecarlia WTP and the McMillan WTP. Located at the Dalecarlia WTP is the WA Laboratory. The primary mission of the WA Laboratory is to provide quality analytical support services to the Washington Aqueduct and its wholesale customers in order to ensure the safety and quality of the drinking water according to the Environmental Protection Agency (EPA) Safe Drinking Water Act (SDWA). The WA Laboratory also provides support services to both WA WTPs for monitoring compliance according to numerous National Pollutant Discharge Elimination System (NPDES) permit requirements under the Clean Water Act (CWA). As a service, the WA Laboratory performs legally-required drinking water compliance testing in accordance with local, state, and federal statutes. Extensive testing includes various chemical, biological, radiological, and other required parameters. The Washington Aqueduct Laboratory routinely analyzes process control, customer compliance, and research water samples. Occasionally, emergency water sample testing is required. In accordance with its mission, the Washington Aqueduct Laboratory is required to maintain a continuous state of readiness for water sample analysis. Any testing not performed in-house is sub-contracted off-site to a commercial laboratory. These services will bolster the capability, resiliency, and redundancy of the Washington Aqueduct's water quality monitoring program.

2. Background: This contract is for an Indefinite Delivery Indefinite Quantity (IDIQ). The services rendered shall be to perform testing for various chemical, biological, radiological, and other parameters for the purpose of supporting the WA Laboratory's mission of monitoring the quality and safety of the drinking water while complying with all federal and regional EPA and the Commonwealth of Virginia drinking water regulations. Additional services rendered shall be to perform various testing parameters for the purpose of supporting various NPDES permit requirements with the District of Columbia, EPA Region 3, and the state of Maryland. The contractor shall provide labor, analytical testing, equipment, materials, tools, supervision and all other items incidental to and required to provide laboratory testing services to the Washington Aqueduct. The Washington Aqueduct will be responsible for collecting samples and shipping them to the contracted laboratory. All testing performed by the contractor shall be performed offsite.

All testing services performed shall conform to all regulations associated with the Safe Drinking Water Act (SDWA), National Pollutant Discharge Elimination System (NPDES), Clean Water Act (CWA) or other state and/or federally mandated requirements and use Environmental Protection Agency (EPA) approved test methods or alternative methods specified in this Performance Work Statement (PWS).

3. General Requirements: Services shall include laboratory analytical tests and preparation of test reports on samples for all parameters listed in Appendix A of this PWS (at a minimum) including:

- Analysis of SDWA-regulated and unregulated parameters as they apply to drinking water compliance testing for the District of Columbia, EPA Region 3, and the Commonwealth of Virginia, routine water quality and process control testing, research testing, and emergency response testing.
- Analysis of CWA-regulated and unregulated parameters as they apply to NPDES testing for the District of Columbia, EPA Region 3, and the state of Maryland.

- All additional analytical testing performed by the contract laboratory not included in Appendix A.
- Provide all materials, supplies, and appurtenances needed to collect, transport, and deliver water samples to the contracted laboratory.
- Provide a secure website which the Washington Aqueduct can access to view recent and historical laboratory reports.
- Technical personnel to answer and provide assistance regarding EPA drinking water regulatory requirements as they pertain to laboratory testing.

3.1 Capabilities. The commercial laboratory shall have a primary focus on supporting the drinking water community in the area of compliance testing using certified methods, as well as, the areas of pilot-project and research testing of both common and emerging contaminants using both established methods with appropriate modifications and recently-developed methods. The commercial laboratory shall have the capacity and capabilities to meet the needs for quick turnaround reporting of quality testing performed on high volumes of samples. It is also imperative that the laboratory not perform analyses on soil and waste matrices which are incompatible with the potable water matrix. The laboratory is required to maintain state-of-science current technology on all analytical equipment, sample collection, sample preparation, information management, and communications necessary to perform the services under this contract and should be able to adapt to all future analytical needs and requirements of the water supply industry. Upon request, the laboratory is required to provide a current copy of the Quality Assurance Plan (QAP) and Standard Operating Procedures (SOP) that are employed to perform the requested tests.

3.2 Subcontracting Tests. For all analyses performed on drinking water samples using drinking water methods, no less than 85% of the work performed by the laboratory (at their location) shall be on potable drinking water, bottled water, and surface water. No more than 15% of the tests provided under this contract may be subcontracted. However, this requirement does not apply to any analyses performed using wastewater, RCRA, or other non-drinking water methods. Any and all analyses performed using non-drinking water methods may be sub-contracted.

All subcontractors are required to meet all of the same certifications, approvals, and requirements as stated in this PWS. The laboratory is required to submit copies of all certificates for its subcontractors as referenced in Section 4.1.

The laboratory shall be held fully responsible and liable for the performance and quality of service provided by all subcontract laboratories it uses under this contract.

3.3 Analytical Methods. Appendix A contains the preferred list of SDWA-approved methods (where applicable) for the requested parameters. Only the most currently approved version of SDWA-published methods may be used for analyzing all SDWA-compliance samples. Some CWA-approved and RCRA methods are also included in Appendix A. All analyses performed and reported shall be compliant with all current SDWA and CWA Minimum Detectable Limits (MDLs) and Minimum Reporting Levels (MRLs) for all EPA-approved analytical methods as required by EPA SDWA and CWA regulations. The MRL requirements for the analytes and compounds of interest are also included in Appendix A. The laboratory can propose alternative SDWA and/or CWA-approved methods as long as the MRLs are met for all the target analytes and compounds shown. Please note, some of the compounds listed do not have a Required MRL listed. All deviations from the requirements listed in this sub-section 3.3 shall be summarized in the laboratory proposal.

3.4 Quality Control. All quality control elements as required by the method and the EPA SDWA and CWA shall be performed and reported by the contractor. In addition, matrix spikes and matrix spike

duplicates may be performed on Washington Aqueduct samples (as designated by the Government POC).

3.5 Experience. The laboratory is required to have demonstrated experience with all currently certified parameters, including at least 2 years of documented certification and analysis of at least 500 SDWA samples for each test in Appendix A during the prior two years. Deviations from these requirements shall be summarized in the laboratory proposal.

3.6 Sampling Kits. The Contractor shall provide sample collection kits consisting of appropriate sample containers, filters, packaging materials, ice packs, laboratory chain of custody documents, comprehensive sampling instructions and shipping containers for each sample collection event.

The Government POC will send a sampling schedule to the Contractor on an annual or more frequent basis. A minimum of one sample will be scheduled to be tested per year.

Sample kits shall be provided on a monthly basis for the number of samples and parameters indicated in the sampling schedule.

Kits shall be shipped to arrive no later than the fifth (5th) of the month in which the samples are scheduled to be collected.

If issues are encountered outside of the Government's control requiring resampling, the Contractor shall ship a replacement sampling kit at no additional cost.

3.7 Expedited Analysis. The Contractor shall provide the following rush analysis services when requested. The Contractor shall notify the Washington Aqueduct's primary and secondary contact persons of the test results, by telephone or e-mail, as soon as it becomes available or before the close of the following business day.

Rush analysis requested to be completed within seven (7) calendar days after the Contractor receives the samples at its laboratory shall be priced at no more than 150% of the respective standard price bid unless otherwise approved.

Rush analysis requested to be completed within two (2) calendar days after the Contractor receives the samples at its laboratory shall be priced at no more than 200% of the respective standard price bid unless otherwise approved.

3.8 Reporting, Record Keeping, and Data Retention. The laboratory shall provide a written report of the test results, chains of custody, and all required quality control and assurance test results within 21 calendar days of sample receipt.

Quality Control (QC) data shall include, but not limited to, the results for associated Method Blanks (MB or LRB), Calibration Verifications, Laboratory Control Samples (LCS or LFB), Matrix Spike (MS or LFM), Matrix Spike Duplicate (MSD or LFMD), Ongoing Precision and Recovery (OPR), sample duplicates, MRL checks, surrogates (when applicable), and any other QA/QC requirements specified by the method.

The quality control limits shall meet method and SDWA (or CWA as applicable) requirements and shall be included for each QC parameter. Any QC results outside of the control limits shall be documented in the laboratory narrative and/or report.

The following information shall be reported for *Cryptosporidium* and *Giardia* analyses via EPA Method 1623:

- Monitoring sample identification information

- Monitoring sample result (oocysts or cysts per L)
- Laboratory quality control batch associated with sample
- ID number and result for Ongoing Precision and Recovery (OPR) for associated QC batch
- ID number and result for Method Blank for associated QC batch
- LT2 sample collection form initiated by Washington Aqueduct and completed by laboratory with sample receipt information
- EPA Method 1623 bench sheet for field and MS samples
- EPA Method 1623 *Cryptosporidium* and *Giardia* slide examination form
- Laboratory comments and applicable data qualifiers

Written reports shall be e-mailed in .pdf format and/or provided on a secure website.

The laboratory shall also provide Electronic Data Deliverables (EDDs) for all analyses. Electronic reports shall be in a delimited format (eg, Excel) for importing into the Washington Aqueduct Laboratory Information Management System (LIMS) and other EPA and State SDWA or CWA databases (eg, Central Data Exchange (CDX), Safe Drinking Water Information System (SDWIS), Compliance Monitoring Data Portal (CMDP), Discharge Monitoring Report System (NetDMR)).

The laboratory shall maintain raw data and other records of all analyses performed for the Washington Aqueduct for a period of no less than ten (10) years. Electronic copies of historical data records shall be made available to the Washington Aqueduct upon request at no additional cost.

3.9 Client Support Services. The following client support services shall be provided as part of the analytical services:

- The laboratory is required to possess expert knowledge of Federal and State drinking water and clean water regulations.
- The laboratory is required to receive and accept samples shipped from Washington Aqueduct by overnight courier to be delivered to the laboratory by 10:30 AM on all days of the week except Sunday.
- The laboratory shall have sufficient staff and instrumentation to analyze samples that have short sample holding times.
- The laboratory shall provide a toll-free telephone number and designated primary contact person(s) for the Washington Aqueduct to call for services.
- The laboratory shall provide a secure website which the Washington Aqueduct can access to view current and historical laboratory reports.
- The laboratory shall immediately notify the Washington Aqueduct of all unanticipated positive, confirmed results by telephone or e-mail.
- The laboratory shall maintain an individual who will be the primary contact with the Washington Aqueduct to accept sample bottle orders, and also shall provide other related drinking and waste water testing information and/or consultative support, including regulatory updates no less frequently than quarterly. Information requests can also include but not be limited to data interpretation, regulations, environment, toxicology, and other related subject matters. The background of the assigned project manager and resource person shall be included with the proposal to demonstrate adequate qualifications. The mechanism by which the Contractor provides periodic regulatory information to the Washington Aqueduct shall be documented in the quote.

3.10 Other Requirements. The contractor shall agree that it has read and fully understands the requirements specified; is in compliance with, and responsible for all federal, state and local laws, ordinances and regulations pertaining to the services, equipment used in the services, or which in any way affects the conduct of the services; and no plea of misunderstanding will be considered on account of ignorance or of being uninformed thereof.

The contractor shall not disclose, imply nor reveal any data, test results or the contents of discussions it had or is having with the Washington Aqueduct, in whole or in part without the expressed written consent of the Washington Aqueduct.

The contractor unconditionally guarantees client confidentiality and certifies that the proposal is genuine and is not made in the interest of or on behalf of any undisclosed person, firm, or corporation and is not submitted in conformity with any agreement or rule of any group, association, organization or corporation.

Work under this task order is:

- UNCLASSIFIED
- SECRET
- TOP SECRET

3.11 Non-Personal Services. Contractor employees performing services under this order shall be controlled, directed and supervised at all times by management personnel of the contractor. The contractor's management shall ensure that employees properly comply with the performance standards outlined in the Quality Assurance Surveillance Plan (QASP). Contractor employees shall perform independent of and without the supervision of any Government official. Actions of contractor employees may not be interpreted or implemented in any manner that results in any contractor employee creating or modifying Federal policy, obligating the appropriated funds of the U.S. Government, overseeing the work of Federal employees, providing direct personal services to any Federal employee or otherwise violating the prohibitions set forth in Parts 7.5 and 37.1 of the Federal Acquisition Regulation (FAR).

3.12 Period of Performance. The period of performance will be five years from award date plus one 6-month option year.

3.13 Security Requirements. The security requirements described below apply to all contract personnel (including employees of the prime Contractor ("Contractor") and all subcontractor employees) supporting the performance requirements of this contract. The contractor is responsible for compliance with these security requirements. Questions regarding security matters shall be addressed to the designated Government representative (e.g., Contracting Officer Representative (COR), Requiring Activity (RA) representative, or Contracting Officer (if a COR or other RA representative is not appointed)). Contract personnel are critical to the overall security and safety of US Army Corps of Engineers (USACE) installations, facilities and activities, and security awareness training contributes to those efforts. The Department of Defense (DoD) and Army security training requirements specified below, if applicable, are performance requirements; all applicable contract personnel shall complete initial training within 30 days of contract award or the date new contract personnel begin performance on the contract. Within five business days from the completion of training, the Contractor shall provide written documentation (e.g., email or memorandum) to the Government representative. The documentation shall include the names of contract personnel trained and which training they completed; the Contractor shall maintain training records as part of their contract files and be prepared to provide copies of training certificates to the Government representative. Contractor personnel and vehicles are subject to search when entering federal installations. Additionally, all contract personnel shall comply with Force Protection Condition (FPCON) measures, Random Antiterrorism Measures (commonly referred to as "RAMs"), and Health Protection Condition (HPCON) measures. The Contractor is responsible for meeting performance requirements during elevated FPCON and/or HPCON levels in accordance with

applicable RA plans and procedures – this includes identifying mission essential and non-mission essential personnel. In addition to the changes otherwise authorized by the changes clause of this contract, should the FPCON or HPCON levels at any individual facility or installation change, the Government may implement security changes that affect contract personnel. The Contractor shall ensure all contract personnel are aware of their security responsibilities, including any site-specific requirements identified in local policies or procedures.

All contract personnel requiring routine access to Army installations, facilities, and controlled access areas, or requiring network access shall complete initial and annual refresher AT Level I awareness training. Online AT Level I awareness training is available at <https://jko.jten.mil/> (website subject to change).

All contract personnel requiring physical access to a federal installation or facility shall comply with the access control procedures of that location. Contract personnel requiring unescorted access to meet contract performance requirements on a DoD installation in the US shall be vetted by the installation/facility Provost Marshal/Directorate of Emergency Services/Security Office using the National Crime Information Center-Interstate Identification Index (commonly referred to as “NCIC-III”) and Terrorist Screening Database (commonly referred to as “TSDB”). Contract personnel who do not meet requirements for unescorted access to USACE facilities shall coordinate escorted access with the Government representative, as needed. Contract personnel who receive keys, access cards, or lock combinations that provide access to government-owned property shall comply with key and lock control procedures of the RA.

Contractors shall comply with the requirements set forth in FAR clause 52.222.-54 Employment Eligibility Verification and FAR Subpart 22.18 in using the E-Verify Program at (<https://www.e-verify.gov/>) (website subject to charge) to meet the contract employment eligibility requirements. Contractors are encouraged to cooperate with Federal and State agencies responsible for enforcing labor requirements to include eligibility for employment under United States immigration laws in accordance with FAR 22.102-1(i). An initial list of verified/eligible candidates shall be provided to the COR no later than three business days after the initial contract award. When contracts are with individuals, the individuals will be required to complete a Form I-9, Employment Eligibility Verification, and submit it to the Contracting Officer to become part of the official contract file.

3.14 Location of Work Performance. Washington Aqueduct personnel will be responsible for collecting samples and shipping them (eg, either as bottles, filters, bulk cubitainers, etc.) to the contract laboratory. All work performed by the contractor shall be performed offsite at the contracted laboratory.

3.15 Site Points of Contact (POCs). POCs shall inspect all Services performed by the Contractor under this PWS through the final reports and provide feedback and acknowledgement of acceptance by customer of deliverables.

Government Technical Project Officer:

Michael Chicoine 202-587-9139

E-mail address: Michael.L.Chicoine@usace.army.mil

Additional Government POCs:

Robert Hoffa 202-345-5928

E-mail address: Robert.P.Hoffa@usace.army.mil

3.16 Delivery. Delivery of all materials will be coordinated with any of the listed Site POCs. Delivery will be made to the following physical address:

Washington Aqueduct Laboratory
5900 MacArthur Blvd, NW
Washington, DC 20016-2514

Attn: Robert Hoffa

3.17 Invoicing instructions:

The Supplier shall mail the original delivery invoices to:

USACE Finance Center
5722 Integrity Drive
Millington, TN 38054-5005
Attn: EFT/Disbursing

And a copy to:

Washington Aqueduct
5900 MacArthur Blvd., N.W.
Washington, D.C. 20016-2514
Attn: Support Management Services
Email: WADinvoices@usace.army.mil

4. Performance Requirements:

4.1 Contract Laboratory Certification Requirements. All laboratory analyses on SDWA and CWA compliance samples shall be performed by the Contractor using the most currently approved version of the approved published method available. Laboratories performing tests on SDWA and CWA samples under this contract shall be, and continuously be certified and/or approved for performing the most currently approved version of the published drinking water methods by the National Environmental Laboratory Accreditation Program (NELAP), the Commonwealth of Virginia drinking water program or Virginia Environmental Laboratory Accreditation Program (VELAP), and any other State drinking water programs (if applicable), EPA Unregulated Contaminant Monitoring Rules (UCMR), and the EPA SDWA *Cryptosporidium* laboratory Quality Assurance approval program [40 CFR Part 141.705(a)] while performing work under this contract for those parameters for which certification and/or EPA-approval is available. The contracted laboratory shall be included on the EPA list of "*Cryptosporidium* Laboratories Acceptable for Monitoring to Comply with the Long Term 2 (LT2) Enhanced Surface Water Treatment Rule" (EPA Office of Water (MC 140) EPA 815-B-13-002).

The laboratory shall continuously maintain certification and approval throughout the entire duration of the contract. The laboratory is required to have demonstrated experience with all currently certified/approved method parameters in this PWS. It is understood by all parties that the Washington Aqueduct has the option and right to terminate the contract because of any loss of certification.

Copies of updated laboratory certification and approval documents shall be submitted to the Government Technical Project Officer on an annual basis during the performance of the contract period.

The laboratory is required to ensure all equipment, instrumentation, and personnel qualifications meets or exceeds NELAP, VELAP, and EPA standards necessary to perform the services under this contract.

4.2 Proficiency Testing (PT). While the laboratory is under contract with the Washington Aqueduct, any PT study showing less than 90% satisfactory shall be reported to the Washington Aqueduct within 24 hours of the laboratory receiving the results. In the event such results are received, the laboratory shall perform appropriate corrective action within the required time period to maintain certification with their regulatory agency. It is understood by all parties that the Washington Aqueduct has the option and right to terminate the contract if the laboratory fails to correct PT failures to the satisfaction of Washington Aqueduct. If the laboratory fails two successive PT samples and/or its certification is revoked, the laboratory shall identify all affected analyses and arrange for the collection and submittal of a new set of samples for re-analysis at another certified laboratory at no additional cost to the Washington Aqueduct.

All PT studies for all parameters under this contract showing results outside the required acceptance limits for LT2 certification/approval and NELAP certification shall be reported to the Washington Aqueduct within three (3) business days of the laboratory receiving the results. In the event such results are received, the laboratory shall obtain another PT sample from a provider as soon as one is available. The results of the repeat analysis shall again be reported to the Washington Aqueduct within three (3) business days of receiving the result. If the results of the reanalysis are again outside the required acceptance limits, the Washington Aqueduct has the option to discontinue sending samples to the laboratory. During this period, the Contractor shall arrange for the submittal of samples to another certified/approved laboratory at no additional cost to the Washington Aqueduct.

4.3 Analytical Method Reporting and Performance. All analytical performance and reporting shall be compliant with the associated method, EPA SDWA, VELAP, and NELAP requirements. In the event that the samples provided to the Contractor do not meet these requirements upon arrival (eg, holding times, sample volumes, temperature, sample integrity, etc) or during analysis (eg, QC data outside of established limits), the Contractor shall notify the Washington Aqueduct by phone or email within one (1) business day in order to schedule resampling if required.

4.4 Additional Document Requirements for Proposal. When the quote is submitted, the Offeror shall provide the following supporting documents:

- Current, unexpired copies of their certification/approval letters from EPA, VELAP, and a State drinking water program and/or NELAP, as well as, copies of certifications/approvals covering the last two (2) years.
- Listing/brief description of three (3) successfully completed projects of similar relevancy, scope, and certification/approval requirements within the last two (2) years.
- Listing of methods and current MRLs comparable to those in Appendix A.
- Resumes of key personnel with documented training and experience in the methods listed in Appendix A covering the last two (2) years.
- Most recent Proficiency Testing (PT) results for all applicable methods listed in Appendix A.

The laboratory shall submit a cost proposal for each line item in Appendix A, irrespective of whether the tests are done by the laboratory or by a subcontractor. Tests performed in-house shall be identified.

5. Technical Exhibit List:

5.1 Performance Requirements Summary

Performance Objective	Standard	Performance Threshold	Method of Surveillance
<p>PRS # 1.</p> <p>The Contractor shall provide and ship sample collection kits to arrive at the Washington Aqueduct by the fifth (5th) of the month in which the samples are scheduled to be collected. If issues are encountered outside of the Government's control requiring resampling, the Contractor shall ship a replacement sampling kit at no additional cost.</p>	<p>The Contractor provides all required sampling supplies in the sample collection kit by the fifth (5th) of the month.</p>	<p>All sampling supplies shall arrive prior to the scheduled sample collection date.</p>	<p>100 percent inspection performed by site POCs.</p>
<p>PRS # 2.</p> <p>The Contractor shall analyze all samples according to the associated method, EPA SDWA, EPA CWA, and NELAP procedural and quality control requirements.</p>	<p>The Contractor follows all regulatory, certification, and method requirements. Notifies Washington Aqueduct of all issues requiring resampling within one (1) business day.</p>	<p>The Contractor shall reanalyze all samples at no cost to the Government for all problems and QC failures caused by contract laboratory error.</p>	<p>100 percent inspection performed by site POCs.</p>

<p>PRS # 3</p> <p>The Contractor shall continuously be certified and/or approved for performing drinking water analysis by NELAP, the State of Virginia drinking water program and any other State drinking water programs (if applicable), EPA Unregulated Contaminant Monitoring Rules (UCMR), and the EPA SDWA <i>Cryptosporidium</i> laboratory Quality Assurance approval program. Also continue to be included on the EPA list of “<i>Cryptosporidium</i> Laboratories Acceptable for Monitoring to Comply with the Long Term 2 Enhanced Surface Water Treatment Rule”.</p>	<p>The Contractor maintains all required certifications and approvals. Copies of updated certification and approval documents shall be submitted to the Government Technical Point of Contact (POC) on an annual basis during the performance of each contract period.</p>	<p>The Contractor shall maintain the required certifications and approvals during the entire performance of the contract or samples shall be subcontracted to a certified/approved laboratory.</p>	<p>100 percent inspection performed by site POCs.</p>
<p>PRS # 4</p> <p>The Contractor shall provide a written and electronic report (including all method-required sample and batch-specific quality control results obtained during the processing and analysis of submitted samples).</p>	<p>The Contractor provides a written report (including all required elements listed in the PWS) within 21 calendar days from sample receipt.</p>	<p>The report shall contain all of the required elements listed in the PWS and shall be received within 21 calendar days from sample receipt.</p>	<p>100 percent inspection performed by site POCs.</p>

Appendix A

Analytical Capability Requirements

<u>Analyte or Compound</u>	<u>Method</u>	<u>Required MRL</u>	<u>Units</u>
Volatile Organic Compounds by GC/MS:			
1,1,1,2-Tetrachloroethane	EPA 524.2	0.5	µg/L
1,1,1-Trichloroethane	EPA 524.2	0.5	µg/L
1,1,2,2-Tetrachloroethane	EPA 524.2	0.5	µg/L
1,1,2-Trichloroethane	EPA 524.2	0.5	µg/L
1,1-Dichloroethane	EPA 524.2	0.5	µg/L
1,1-Dichloroethylene	EPA 524.2	0.5	µg/L
1,1-Dichloropropene	EPA 524.2	0.5	µg/L
1,2,3-Trichlorobenzene	EPA 524.2	0.5	µg/L
1,2,3-Trichloropropane	EPA 524.2	0.5	µg/L
1,2,4-Trichlorobenzene	EPA 524.2	0.5	µg/L
1,2,4-Trimethylbenzene	EPA 524.2	0.5	µg/L
o-Dichlorobenzene (1,2-DCB)	EPA 524.2	0.5	µg/L
1,2-Dichloroethane	EPA 524.2	0.5	µg/L
1,2-Dichloropropane	EPA 524.2	0.5	µg/L
1,3,5-Trimethylbenzene	EPA 524.2	0.5	µg/L
m-Dichlorobenzene (1,3-DCB)	EPA 524.2	0.5	µg/L
1,3-Dichloropropane	EPA 524.2	0.5	µg/L
p-Dichlorobenzene (1,4-DCB)	EPA 524.2	0.5	µg/L
2,2-Dichloropropane	EPA 524.2	0.5	µg/L
2-Butanone (MEK)	EPA 524.2	5	µg/L
4-Methyl-2-Pentanone (MIBK)	EPA 524.2	5	µg/L
o-Chlorotoluene	EPA 524.2	0.5	µg/L
p-Chlorotoluene	EPA 524.2	0.5	µg/L
p-Isopropyltoluene	EPA 524.2	0.5	µg/L
Benzene	EPA 524.2	0.5	µg/L
Bromobenzene	EPA 524.2	0.5	µg/L
Bromochloromethane	EPA 524.2	0.5	µg/L
Bromodichloromethane	EPA 524.2	0.5	µg/L
Bromoethane	EPA 524.2	0.5	µg/L
Bromoform	EPA 524.2	0.5	µg/L
Bromomethane (Methyl Bromide)	EPA 524.2	0.5	µg/L
Carbon disulfide	EPA 524.2	0.5	µg/L
Carbon Tetrachloride	EPA 524.2	0.5	µg/L
Chlorobenzene	EPA 524.2	0.5	µg/L
Chloroethane	EPA 524.2	0.5	µg/L
Chloroform (Trichloromethane)	EPA 524.2	0.5	µg/L
Chloromethane(Methyl Chloride)	EPA 524.2	0.5	µg/L
cis-1,2-Dichloroethylene	EPA 524.2	0.5	µg/L
cis-1,3-Dichloropropene	EPA 524.2	0.5	µg/L
Chlorodibromomethane	EPA 524.2	0.5	µg/L
Dibromomethane	EPA 524.2	0.5	µg/L
Di-isopropyl ether	EPA 524.2	3	µg/L
Dichlorodifluoromethane	EPA 524.2	0.5	µg/L
Ethyl benzene	EPA 524.2	0.5	µg/L
Hexachlorobutadiene	EPA 524.2	0.5	µg/L
Isopropylbenzene	EPA 524.2	0.5	µg/L
m,p-Xylenes	EPA 524.2	0.5	µg/L
Methyl Tert-butyl ether (MTBE)	EPA 524.2	0.5	µg/L
Dichloromethane	EPA 524.2	0.5	µg/L
Naphthalene	EPA 524.2	0.5	µg/L
n-Butylbenzene	EPA 524.2	0.5	µg/L
n-Propylbenzene	EPA 524.2	0.5	µg/L
o-Xylene	EPA 524.2	0.5	µg/L
sec-Butylbenzene	EPA 524.2	0.5	µg/L
Styrene	EPA 524.2	0.5	µg/L
tert-amyl Methyl Ether	EPA 524.2	3	µg/L
tert-Butyl Ethyl Ether	EPA 524.2	3	µg/L
tert-Butylbenzene	EPA 524.2	0.5	µg/L
Tetrachloroethylene (PCE)	EPA 524.2	0.5	µg/L

Analyte or Compound**Method****Required
MRL****Units****Volatile Organic Compounds by GC/MS (continued):**

Toluene	EPA 524.2	0.5	µg/L
Total 1,3-Dichloropropene	EPA 524.2	0.5	µg/L
Total THM	EPA 524.2	0.5	µg/L
Total xylenes	EPA 524.2	0.5	µg/L
trans-1,2-Dichloroethylene	EPA 524.2	0.5	µg/L
trans-1,3-Dichloropropene	EPA 524.2	0.5	µg/L
Trichloroethylene (TCE)	EPA 524.2	0.5	µg/L
Trichlorofluoromethane	EPA 524.2	0.5	µg/L
Trichlorotrifluoroethane(Freon 113)	EPA 524.2	0.5	µg/L
Vinyl chloride (VC)	EPA 524.2	0.3	µg/L
Tetrachloroethylene (PCE)	EPA 524.2	0.5	µg/L

SOCs by GC/MS:

2,4-DDD	EPA 525.2	0.1	µg/L
2,4-DDE	EPA 525.2	0.1	µg/L
2,4-DDT	EPA 525.2	0.1	µg/L
2,4-Dinitrotoluene	EPA 525.2	0.1	µg/L
2,6-Dinitrotoluene	EPA 525.2	0.1	µg/L
4,4-DDD	EPA 525.2	0.1	µg/L
4,4-DDE	EPA 525.2	0.1	µg/L
4,4-DDT	EPA 525.2	0.1	µg/L
Acenaphthene	EPA 525.2	0.1	µg/L
Acenaphthylene	EPA 525.2	0.1	µg/L
Acetochlor	EPA 525.2	0.1	µg/L
Alachlor	EPA 525.2	0.05	µg/L
Alpha-BHC	EPA 525.2	0.1	µg/L
alpha-Chlordane	EPA 525.2	0.05	µg/L
Anthracene	EPA 525.2	0.02	µg/L
Atrazine	EPA 525.2	0.05	µg/L
Benz(a)Anthracene	EPA 525.2	0.05	µg/L
Benzo(a)pyrene	EPA 525.2	0.02	µg/L
Benzo(b)Fluoranthene	EPA 525.2	0.02	µg/L
Benzo(g,h,i)Perylene	EPA 525.2	0.05	µg/L
Benzo(k)Fluoranthene	EPA 525.2	0.02	µg/L
Beta-BHC	EPA 525.2	0.1	µg/L
Bromacil	EPA 525.2	0.2	µg/L
Butachlor	EPA 525.2	0.05	µg/L
Butylbenzylphthalate	EPA 525.2	0.5	µg/L
Caffeine	EPA 525.2	0.05	µg/L
Chlorobenzilate	EPA 525.2	0.1	µg/L
Chloroneb	EPA 525.2	0.1	µg/L
Chlorothalonil(Draconil,Bravo)	EPA 525.2	0.1	µg/L
Chlorpyrifos (Dursban)	EPA 525.2	0.05	µg/L
Chrysene	EPA 525.2	0.02	µg/L
Delta-BHC	EPA 525.2	0.1	µg/L
Di-(2-Ethylhexyl)adipate	EPA 525.2	0.6	µg/L
Di(2-Ethylhexyl)phthalate	EPA 525.2	0.6	µg/L
Diazinon (Qualitative)	EPA 525.2	0.1	µg/L
Dibenz(a,h)Anthracene	EPA 525.2	0.05	µg/L
Dichlorvos (DDVP)	EPA 525.2	0.05	µg/L
Dieldrin	EPA 525.2	0.2	µg/L
Diethylphthalate	EPA 525.2	0.5	µg/L
Dimethoate	EPA 525.2	0.1	µg/L
Dimethylphthalate	EPA 525.2	0.5	µg/L
Di-n-Butylphthalate	EPA 525.2	1	µg/L
Di-N-octylphthalate	EPA 525.2	0.1	µg/L
Endosulfan I (Alpha)	EPA 525.2	0.1	µg/L
Endosulfan II (Beta)	EPA 525.2	0.1	µg/L
Endosulfan Sulfate	EPA 525.2	0.1	µg/L
Endrin	EPA 525.2	0.1	µg/L
Endrin Aldehyde	EPA 525.2	0.1	µg/L
EPTC	EPA 525.2	0.1	µg/L

<u>Analyte or Compound</u>	<u>Method</u>	<u>Required MRL</u>	<u>Units</u>
SOCs by GC/MS (continued):			
Fluoranthene	EPA 525.2	0.1	µg/L
Fluorene	EPA 525.2	0.05	µg/L
gamma-Chlordane	EPA 525.2	0.05	µg/L
Heptachlor	EPA 525.2	0.04	µg/L
Heptachlor Epoxide (isomer B)	EPA 525.2	0.05	µg/L
Hexachlorobenzene	EPA 525.2	0.05	µg/L
Hexachlorocyclopentadiene	EPA 525.2	0.05	µg/L
Indeno(1,2,3,c,d)Pyrene	EPA 525.2	0.05	µg/L
Isophorone	EPA 525.2	0.5	µg/L
Lindane	EPA 525.2	0.04	µg/L
Malathion	EPA 525.2	0.1	µg/L
Methoxychlor	EPA 525.2	0.1	µg/L
Metolachlor	EPA 525.2	0.05	µg/L
Metribuzin	EPA 525.2	0.05	µg/L
Molinate	EPA 525.2	0.1	µg/L
Naphthalene	EPA 525.2	0.3	µg/L
Parathion	EPA 525.2	0.1	µg/L
Pendimethalin	EPA 525.2	0.1	µg/L
Total Permethrin (mixed isomers)	EPA 525.2	0.1	µg/L
Phenanthrene	EPA 525.2	0.04	µg/L
Propachlor	EPA 525.2	0.05	µg/L
Pyrene	EPA 525.2	0.05	µg/L
Simazine	EPA 525.2	0.05	µg/L
Terbacil	EPA 525.2	0.1	µg/L
Terbutylazine	EPA 525.2	0.1	µg/L
Thiobencarb	EPA 525.2	0.2	µg/L
trans-Nonachlor	EPA 525.2	0.05	µg/L
Trifluralin	EPA 525.2	0.1	µg/L
Endrin Aldehyde	EPA 525.2	0.1	µg/L
Organochlorine Pesticides by GC/ECD:			
Alachlor (Alanex)	EPA 505	0.1	µg/L
Aldrin	EPA 505	0.01	µg/L
Chlordane	EPA 505	0.1	µg/L
Dieldrin	EPA 505	0.01	µg/L
Endrin	EPA 505	0.01	µg/L
Heptachlor	EPA 505	0.01	µg/L
Heptachlor Epoxide	EPA 505	0.01	µg/L
Lindane (gamma-BHC)	EPA 505	0.01	µg/L
Methoxychlor	EPA 505	0.05	µg/L
PCB 1016 Aroclor (qualitative)*	EPA 505	0.08	µg/L
PCB 1221 Aroclor (qualitative)*	EPA 505	0.1	µg/L
PCB 1232 Aroclor (qualitative)*	EPA 505	0.1	µg/L
PCB 1242 Aroclor (qualitative)*	EPA 505	0.1	µg/L
PCB 1248 Aroclor (qualitative)*	EPA 505	0.1	µg/L
PCB 1254 Aroclor (qualitative)*	EPA 505	0.1	µg/L
PCB 1260 Aroclor (qualitative)*	EPA 505	0.1	µg/L
Total PCBs*	EPA 505	0.1	µg/L
Toxaphene	EPA 505	0.5	µg/L
PCBs as Decachlorobiphenyls by GC/ECD:			
PCBs (quantitative)	EPA 508A	0.1	µg/L
*If PCBs (as one of seven Aroclors) are detected as designated in any sample analyzed using Method 505 or 508, the laboratory shall reanalyze the sample using Method 508A to quantitate PCBs (as decachlorobiphenyl).			
Chlorophenoxy Herbicides by GC/ECD:			
2,4,5-T	EPA 515.4	0.2	µg/L
2,4,5-TP (Silvex)	EPA 515.4	0.2	µg/L
2,4-D	EPA 515.4	0.1	µg/L
2,4-DB	EPA 515.4	2	µg/L
3,5-Dichlorobenzoic acid	EPA 515.4	0.5	µg/L

<u>Analyte or Compound</u>	<u>Method</u>	<u>Required MRL</u>	<u>Units</u>
Chlorophenoxy Herbicides by GC/ECD (continued):			
Acifluorfen	EPA 515.4	0.2	µg/L
Bentazon	EPA 515.4	0.5	µg/L
Dalapon	EPA 515.4	1	µg/L
Dicamba	EPA 515.4	0.1	µg/L
Dichlorprop	EPA 515.4	0.5	µg/L
Dinoseb	EPA 515.4	0.2	µg/L
Pentachlorophenol	EPA 515.4	0.04	µg/L
Picloram	EPA 515.4	0.1	µg/L
Nitrosamines by GC/MS:			
N-Nitrosodibutylamine (NDBA)	EPA 521	2	ng/L
N-Nitrosodiethylamine (NDEA)	EPA 521	2	ng/L
N-Nitroso-dimethylamine (NDMA)	EPA 521	2	ng/L
N-Nitrosodi-n-propylamine (NDPA)	EPA 521	2	ng/L
N-Nitrosomethylethylamine (NMEA)	EPA 521	2	ng/L
N-Nitrosopyrrolidine (NPYR)	EPA 521	2	ng/L
Dioxane:			
1,4-Dioxane	EPA 522	1	ug/L
Carbamate Pesticides by HPLC:			
1-Naphthol	EPA 531.2	1	µg/L
3-Hydroxycarbofuran	EPA 531.2	0.5	µg/L
Aldicarb (Temik)	EPA 531.2	0.5	µg/L
Aldicarb sulfone	EPA 531.2	0.7	µg/L
Aldicarb sulfoxide	EPA 531.2	0.5	µg/L
Baygon	EPA 531.2	0.5	µg/L
Carbaryl	EPA 531.2	0.5	µg/L
Carbofuran (Furadan)	EPA 531.2	0.9	µg/L
Methiocarb	EPA 531.2	1	µg/L
Methomyl	EPA 531.2	0.5	µg/L
Oxamyl (Vydate)	EPA 531.2	1	µg/L
Glyphosate:			
Glyphosate	EPA 547	6	µg/L
Endothall:			
Endothall	EPA 548.1	5	µg/L
Diquat and Paraquat:			
Diquat	EPA 549.2	0.4	µg/L
Paraquat	EPA 549.2	2	µg/L
EDB & DBCP:			
1,2-Dibromo-3-chloropropane (DBCP)	EPA 551.1	0.01	µg/L
Ethylene dibromide (EDB)	EPA 551.1	0.01	µg/L
Acrylamide:			
Acrylamide	EPA 8032A	0.05	ug/L
Epichlorohydrin:			
Epichlorohydrin	EPA 524.2	0.4	ug/L
Dioxin by HRGC/HRMS:			
2,3,7,8-Tetrachloro dibenzo-p-dioxin	EPA 1613B	5	pg/L
Taste and Odor Compounds:			
Geosmin	SM 6040 D	2	ng/L
Methylisoborneol (MIB)	SM 6040 D	2	ng/L
2,4,6-Trichloroanisole (TCA)	SM 6040 D	2	ng/L
2-isobutyl-3-methoxy pyrazine (IBMP)	SM 6040 D	2	ng/L
2-isopropyl-3-methoxy pyrazine (IPMP)	SM 6040 D	2	ng/L

<u>Analyte or Compound</u>	<u>Method</u>	<u>Required MRL</u>	<u>Units</u>
Phenylurea Pesticides/Herbicides:			
Diflubenzuron	EPA 532	NA	ug/L
Diuron	EPA 532	NA	ug/L
Fluometuron	EPA 532	NA	ug/L
Linuron	EPA 532	NA	ug/L
Propanil	EPA 532	NA	ug/L
Siduron	EPA 532	NA	ug/L
Tebuthiuron	EPA 532	NA	ug/L
Thidiazuron	EPA 532	NA	ug/L
Carbonyl Compounds:			
Acetaldehyde	EPA 556.1	1	ug/L
Benzaldehyde	EPA 556.1	1	ug/L
Butanal	EPA 556.1	1	ug/L
Cyclohexanone	EPA 556.1	1	ug/L
Decanal	EPA 556.1	1	ug/L
Formaldehyde	EPA 556.1	5	ug/L
Glyoxal	EPA 556.1	10	ug/L
Heptanal	EPA 556.1	1	ug/L
Hexanal	EPA 556.1	1	ug/L
Methyl glyoxal	EPA 556.1	10	ug/L
Nonanal	EPA 556.1	1	ug/L
Octanal	EPA 556.1	1	ug/L
Pentanal	EPA 556.1	1	ug/L
Propanal	EPA 556.1	1	ug/L
Haloacetic Acids (HAAs):			
Monochloroacetic acid	SM 6251 B	1	µg/L
Dichloroacetic acid	SM 6251 B	1	µg/L
Trichloroacetic acid	SM 6251 B	1	µg/L
Monobromoacetic acid	SM 6251 B	1	µg/L
Dibromoacetic acid	SM 6251 B	1	µg/L
Haloacetic Acids 5 Total	SM 6251 B	1	µg/L
Monochloroacetic acid	EPA 552.3	2	µg/L
Dichloroacetic acid	EPA 552.3	0.2	µg/L
Trichloroacetic acid	EPA 552.3	0.5	µg/L
Monobromoacetic acid	EPA 552.3	0.3	µg/L
Dibromoacetic acid	EPA 552.3	0.3	µg/L
Bromochloroacetic acid	EPA 552.3	0.3	µg/L
Bromodichloroacetic acid	EPA 552.3	0.5	µg/L
Chlorodibromoacetic acid	EPA 552.3	0.3	µg/L
Tribromoacetic acid	EPA 552.3	2	µg/L
Haloacetic Acids 9 Total	EPA 552.3	0.2	µg/L
Inorganic Parameters:			
Alkalinity	SM 2320 B	2	mg/L
Ammonia	EPA 350.1	0.05	mg/L
Asbestos	EPA 100.2	0.2	MFL
Biochemical Oxygen Demand	SM 5210 B	2	mg/L
Bromate	EPA 317	1	mg/L
Calcium Hardness	SM 3500 Ca	NA	mg/L
Chloride	EPA 300.0	1	mg/L
Chlorite	EPA 300.0	10	µg/L
Chemical Oxygen Demand	EPA 410.4	15	mg/L
Color	SM 2120 B	3	ACU
Corrosivity/Langlier Index	SM 2330 B	-14	units
Cyanide, total**	EPA 335.4	0.005	mg/L
Cyanide, free	SM 4500 CN F	0.025	mg/L
Cyanide, amenable	SM 4500 CN G	0.025	mg/L
Fluoride	SM 4500 F C	0.05	mg/L

**Whenever the measured concentration of total cyanide in a sample exceeds 0.2 mg/L, the laboratory shall reanalyze the sample for free cyanide using an SDWA-approved method in order to determine compliance with the EPA-established drinking water MCL.

Analyte or Compound**Method****Required
MRL****Units****Inorganic Parameters (continued):**

Hexavalent chromium (dissolved)	EPA 218.7	0.02	µg/L
Iodide	EPA 200.8	1	µg/L
Kjeldahl Nitrogen	EPA 351.2	0.5	mg/L
Mercury	EPA 245.1	0.2	µg/L
Nitrate as N	EPA 300.0	0.1	mg/L
Nitrite as N	EPA 300.0	0.05	mg/L
Odor (Threshold Odor Number)	SM 2150 B	1	TON
Orthophosphate	EPA 365.1	0.05	mg/L
Orthophosphorus	SM 4500 P E	50	ug/L
Total Phosphorus	SM 4500 P E	50	ug/L
Perchlorate	EPA 331	0.05	µg/L
Residue (Volatile)	EPA 160.4	NA	mg/L
Residue (Total)	SM 2540 B	NA	mg/L
Residue (Filterable)	SM 2540 C	NA	mg/L
Residue (Non-filterable)	SM 2540 D	NA	mg/L
Silica	SM4500 SiO2 C	1	mg/L
Specific Conductance	SM 2510 B	2	umho/cm
Specific UV Absorbance (SUVA)	SM 5910 B SM	0.009	AU
Sulfate	EPA 300.0	0.5	mg/L
Surfactants as MBAS	SM 5540 C	0.05	mg/L
Total Dissolved Solid (TDS)	SM 2540 C	10	mg/L
Total Hardness as CaCO3	SM 2340 B	3	mg/L
Total Organic Halides	SM 5320 B	NA	ug/L
Turbidity	EPA 180.1	0.05	NTU

Metals by ICP-MS:

Aluminum	EPA 200.8	20	ug/L
Antimony	EPA 200.8	1	ug/L
Arsenic (Total & Speciation)	EPA 200.8	1	ug/L
Barium	EPA 200.8	2	ug/L
Beryllium	EPA 200.8	1	ug/L
Cadmium	EPA 200.8	0.5	ug/L
Chromium	EPA 200.8	1	ug/L
Cobalt	EPA 200.8	2	ug/L
Copper	EPA 200.8	2	ug/L
Lead	EPA 200.8	0.5	ug/L
Manganese	EPA 200.8	2	ug/L
Mercury	EPA 200.8	0.2	ug/L
Molybdenum	EPA 200.8	2	ug/L
Nickel	EPA 200.8	5	ug/L
Selenium	EPA 200.8	5	ug/L
Silver	EPA 200.8	0.5	ug/L
Thallium	EPA 200.8	1	ug/L
Uranium	EPA 200.8	0.2	ug/L
Vanadium	EPA 200.8	3	ug/L
Zinc	EPA 200.8	20	ug/L

Metals by ICP-AES:

Aluminum	EPA 200.7	NA	mg/L
Barium	EPA 200.7	NA	mg/L
Beryllium	EPA 200.7	NA	mg/L
Boron	EPA 200.7	NA	mg/L
Cadmium	EPA 200.7	NA	mg/L
Calcium	EPA 200.7	1	mg/L
Chromium	EPA 200.7	NA	mg/L
Copper	EPA 200.7	NA	mg/L
Iron	EPA 200.7	0.02	mg/L
Magnesium	EPA 200.7	0.1	mg/L
Manganese	EPA 200.7	NA	mg/L
Molybdenum	EPA 200.7	NA	mg/L

<u>Analyte or Compound</u>	<u>Method</u>	<u>Required MRL</u>	<u>Units</u>
Metals by ICP-AES (continued):			
Nickel	EPA 200.7	NA	mg/L
Potassium	EPA 200.7	NA	mg/L
Silica as SiO2	EPA 200.7	NA	mg/L
Silver	EPA 200.7	NA	mg/L
Sodium	EPA 200.7	1	mg/L
Vanadium	EPA 200.7	NA	mg/L
Zinc	EPA 200.7	NA	mg/L
Microbiological Parameters:			
Water suitability ratio	SM 9020 B	NA	NA
Cryptosporidium	EPA 1623	NA	NA
Giardia	EPA 1623	NA	NA
Heterotrophic Plate Count	SM 9215 B	NA	NA
Total Coliforms	SM 9221 B LTB	NA	NA
Total Coliforms	SM 9221 B LTB+C MPN	NA	NA
Total Coliforms	SM 9223 B Colilert	NA	NA
Total Coliforms	SM 9223 B Quantitray	NA	NA
Total Coliforms	SM 9223 B Colilert-18	NA	NA
Total Coliforms	SM 9223 B Quantitray-18	NA	NA
Total Coliforms	SM 9223 B Colisure	NA	NA
Fecal Coliforms	SM 9221 B,E LTB+EC	NA	NA
Fecal Coliforms	SM 9221 B, E, C LTB+EC MPN	NA	NA
<i>E.coli</i>	SM 9221 B, F LTB+EC MUG	NA	NA
<i>E.coli</i>	SM 9221 B, F, C LTB+EC MUG MPN	NA	NA
<i>E.coli</i>	SM 9223 B Colilert	NA	NA
<i>E.coli</i>	SM 9223 B Colilert Quantitray	NA	NA
<i>E.coli</i>	SM 9223 B Colilert-18	NA	NA
<i>E.coli</i>	SM 9223 B Colilert-18 Quantitray	NA	NA
<i>E.coli</i>	SM 9223 B Colisure	NA	NA
Enterococci	Enterolert	NA	NA
Enterococci	SM 9230 B	NA	NA
Fecal streptococci	SM 9230 B	NA	NA
Algal ID/Enumeration	SM 10200 F	NA	NA
Radiological Contaminants:			
Gross alpha	EPA 900.0	≤ 3	pCi/L
Gross beta	EPA 900.0	≤ 4	pCi/L
Radium-226	GA Tech Ra-226/228	≤ 1	pCi/L
Radium-228	GA Tech Ra-226/228	≤ 1	pCi/L
Radon-222	SM 7500RN	NA	pCi/L
Strontium-90	EPA 905.0	NA	pCi/L
Tritium	EPA 906.0	NA	pCi/L
UCMR5:			
11-chloroeicosafuoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	EPA 533	0.005	µg/L
1H,1H, 2H, 2H-perfluorodecane sulfonic acid (8:2FTS)	EPA 533	0.005	µg/L

<u>Analyte or Compound</u>	<u>Method</u>	<u>Required MRL</u>	<u>Units</u>
UCMR5 (continued):			
1H,1H, 2H, 2H-perfluorohexane sulfonic acid (4:2FTS)	EPA 533	0.003	µg/L
1H,1H, 2H, 2H-perfluorooctane sulfonic acid (6:2FTS)	EPA 533	0.005	µg/L
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	EPA 533	0.003	µg/L
9-chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	EPA 533	0.002	µg/L
hexafluoropropylene oxide dimer acid (HFPO-DA)(GenX)	EPA 533	0.005	µg/L
nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	EPA 533	0.02	µg/L
perfluoro (2-ethoxyethane) sulfonic acid (PFEEESA)	EPA 533	0.003	µg/L
perfluoro-3-methoxypropanoic acid (PFMPA)	EPA 533	0.004	µg/L
perfluoro-4-methoxybutanoic acid (PFMBA)	EPA 533	0.003	µg/L
perfluorobutanesulfonic acid (PFBS)	EPA 533	0.003	µg/L
perfluorobutanoic acid (PFBA)	EPA 533	0.005	µg/L
perfluorodecanoic acid (PFDA)	EPA 533	0.003	µg/L
perfluorododecanoic acid (PFDoA)	EPA 533	0.003	µg/L
perfluoroheptanesulfonic acid (PFHpS)	EPA 533	0.003	µg/L
perfluoroheptanoic acid (PFHpA)	EPA 533	0.003	µg/L
perfluorohexanesulfonic acid (PFHxS)	EPA 533	0.003	µg/L
perfluorohexanoic acid (PFHxA)	EPA 533	0.003	µg/L
perfluorononanoic acid (PFNA)	EPA 533	0.004	µg/L
perfluorooctanesulfonic acid (PFOS)	EPA 533	0.004	µg/L
perfluorooctanoic acid (PFOA)	EPA 533	0.004	µg/L
perfluoropentanesulfonic acid (PFPeS)	EPA 533	0.004	µg/L
perfluoropentanoic acid (PFPeA)	EPA 533	0.003	µg/L
perfluoroundecanoic acid (PFUnA)	EPA 533	0.002	µg/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	EPA 537.1	0.005	µg/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	EPA 537.1	0.006	µg/L
perfluorotetradecanoic acid (PFTA)	EPA 537.1	0.008	µg/L
perfluorotridecanoic acid (PFTTrDA)	EPA 537.1	0.007	µg/L
lithium	EPA 200.7	9	µg/L
Algal Toxins:			
Anatoxin-a	EPA 545	0.02	µg/L
Cylindrospermopsin	EPA 545	0.05	µg/L
Total Microcystins and Nodularins	EPA 546	0.16	µg/L
Microcystin-LA	EPA 544	0.1	µg/L
Microcystin-LF	EPA 544	0.1	µg/L
Microcystin-LR	EPA 544	0.1	µg/L
Microcystin-LY	EPA 544	0.1	µg/L
Microcystin-RR	EPA 544	0.1	µg/L
Microcystin-YR	EPA 544	0.1	µg/L
Nodularin	EPA 544	0.1	µg/L
Perfluorinated Compounds:			
Perfluorobutanoic acid (PFBA)	EPA 1633	6	ng/L
Perfluoropentanoic acid (PFPeA)	EPA 1633	3	ng/L
Perfluorohexanoic acid (PFHxA)	EPA 1633	2	ng/L
Perfluoroheptanoic acid (PFHpA)	EPA 1633	2	ng/L
Perfluorooctanoic acid (PFOA)	EPA 1633	2	ng/L
Perfluorononanoic acid (PFNA)	EPA 1633	2	ng/L
Perfluorodecanoic acid (PFDA)	EPA 1633	2	ng/L
Perfluoroundecanoic acid (PFUnA)	EPA 1633	2	ng/L
Perfluorododecanoic acid (PFDoA)	EPA 1633	2	ng/L
Perfluorotridecanoic acid (PFTTrDA)	EPA 1633	2	ng/L
Perfluorotetradecanoic acid (PFTTeDA)	EPA 1633	2	ng/L
Perfluorobutanesulfonic acid (PFBS)	EPA 1633	2	ng/L
Perfluoropentanesulfonic acid (PFPeS)	EPA 1633	2	ng/L
Perfluorohexanesulfonic acid (PFHxS)	EPA 1633	2	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	EPA 1633	2	ng/L
Perfluorooctanesulfonic acid (PFOS)	EPA 1633	2	ng/L
Perfluorononanesulfonic acid (PFNS)	EPA 1633	2	ng/L
Perfluorodecanesulfonic acid (PFDS)	EPA 1633	2	ng/L
Perfluorododecanesulfonic acid (PFDoS)	EPA 1633	2	ng/L
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	EPA 1633	6	ng/L

<u>Analyte or Compound</u>	<u>Method</u>	<u>Required MRL</u>	<u>Units</u>
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	EPA 1633	6	ng/L
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	EPA 1633	6	ng/L
Perfluorooctanesulfonamide (PFOSA)	EPA 1633	2	ng/L
N-methyl perfluorooctanesulfonamide (NMeFOSA)	EPA 1633	2	ng/L
Perfluorinated Compounds (continued):			
N-ethyl perfluorooctanesulfonamide (NEtFOSA)	EPA 1633	2	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	EPA 1633	2	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	EPA 1633	2	ng/L
N-methyl perfluorooctanesulfonamidoethanol (NMeFOSE)	EPA 1633	16	ng/L
N-ethyl perfluorooctanesulfonamidoethanol (NEtFOSE)	EPA 1633	16	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	EPA 1633	6	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	EPA 1633	6	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	EPA 1633	3	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	EPA 1633	3	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	EPA 1633	3	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	EPA 1633	6	ng/L
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	EPA 1633	6	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	EPA 1633	3	ng/L
3-Perfluoropropyl propanoic acid (3:3FTCA)	EPA 1633	8	ng/L
2H,2H,3H,3H-Perfluorooctanoic acid (5:3FTCA)	EPA 1633	40	ng/L
3-Perfluoroheptyl propanoic acid (7:3FTCA)	EPA 1633	40	ng/L
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	EPA 533	2	ng/L
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9Cl-PF3ONS)	EPA 533	2	ng/L
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	EPA 533	2	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	EPA 533	2	ng/L
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	EPA 533	2	ng/L
Perfluorobutanoic acid (PFBA)	EPA 533	2	ng/L
Perfluorobutanesulfonic acid (PFBS)	EPA 533	2	ng/L
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (8:2FTS)	EPA 533	2	ng/L
Perfluorodecanoic acid (PFDA)	EPA 533	2	ng/L
Perfluorododecanoic acid (PFDoA)	EPA 533	2	ng/L
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	EPA 533	2	ng/L
Perfluoroheptanesulfonic acid (PFHpS)	EPA 533	2	ng/L
Perfluoroheptanoic acid (PFHpA)	EPA 533	2	ng/L
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (4:2FTS)	EPA 533	2	ng/L
Perfluorohexanesulfonic acid (PFHxS)	EPA 533	2	ng/L
Perfluorohexanoic acid (PFHxA)	EPA 533	2	ng/L
Perfluoro-3-methoxypropanoic acid (PFMPA)	EPA 533	2	ng/L
Perfluoro-4-methoxybutanoic acid (PFMBA)	EPA 533	2	ng/L
Perfluorononanoic acid (PFNA)	EPA 533	2	ng/L
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (6:2FTS)	EPA 533	2	ng/L
Perfluorooctanesulfonic acid (PFOS)	EPA 533	2	ng/L
Perfluorooctanoic acid (PFOA)	EPA 533	2	ng/L
Perfluoropentanoic acid (PFPeA)	EPA 533	2	ng/L
Perfluoropentanesulfonic acid (PFPeS)	EPA 533	2	ng/L
Perfluoroundecanoic acid (PFUnA)	EPA 533	2	ng/L
Hexafluoropropylene oxide dimer acid (HFPO-DA)	EPA 537.1	2	ng/L
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	EPA 537.1	2	ng/L
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)	EPA 537.1	2	ng/L
Perfluorobutanesulfonic acid (PFBS)	EPA 537.1	2	ng/L
Perfluorodecanoic acid (PFDA)	EPA 537.1	2	ng/L
Perfluorododecanoic acid (PFDoA)	EPA 537.1	2	ng/L
Perfluoroheptanoic acid (PFHpA)	EPA 537.1	2	ng/L
Perfluorohexanesulfonic acid (PFHxS)	EPA 537.1	2	ng/L
Perfluorohexanoic acid (PFHxA)	EPA 537.1	2	ng/L
Perfluorohexanoic acid (PFNA)	EPA 537.1	2	ng/L
Perfluorooctanesulfonic acid (PFOS)	EPA 537.1	2	ng/L
Perfluorooctanoic acid (PFOA)	EPA 537.1	2	ng/L
Perfluorotetradecanoic acid (PFTA)	EPA 537.1	2	ng/L
Perfluorotridecanoic acid (PFTTrDA)	EPA 537.1	2	ng/L
Perfluoroundecanoic acid (PFUnA)	EPA 537.1	2	ng/L

<u>Analyte or Compound</u>	<u>Method</u>	<u>Required MRL</u>	<u>Units</u>
Perfluorinated Compounds (continued):			
11-chloroeicosfluoro-3-oxaundecane-1-sulfonic acid (11Cl-PF3OUdS)	EPA 537.1	2	ng/L
9-chlorohexadecafluoro-3-oxanone-1-sulfonic acid (9Cl-PF3ONS)	EPA 537.1	2	ng/L
4,8-dioxa-3H-perfluorononanoic acid (ADONA)	EPA 537.1	2	ng/L
Perfluoro-1-butanefluoronic acid (PFBS)	EPA 8327	NA	ng/L
Perfluoro-1-pentanesulfonic acid (PFPeS)	EPA 8327	NA	ng/L
Perfluoro-1-hexanesulfonic acid (PFHxS)	EPA 8327	NA	ng/L
Perfluoro-1-heptanesulfonic acid (PFHpS)	EPA 8327	NA	ng/L
Perfluoro-1-octanesulfonic acid (PFOS)	EPA 8327	NA	ng/L
Perfluoro-1-nonanesulfonic acid (PFNS)	EPA 8327	NA	ng/L
Perfluoro-1-decanesulfonic acid (PFDS)	EPA 8327	NA	ng/L
1H, 1H, 2H, 2H-perfluorohexane sulfonic acid (4:2 FTS)	EPA 8327	NA	ng/L
1H, 1H, 2H, 2H-perfluorooctane sulfonic acid (6:2 FTS)	EPA 8327	NA	ng/L
1H, 1H, 2H, 2H-perfluorodecane sulfonic acid (8:2 FTS)	EPA 8327	NA	ng/L
Perfluorobutanoic acid (PFBA)	EPA 8327	NA	ng/L
Perfluoropentanoic acid (PFPeA)	EPA 8327	NA	ng/L
Perfluorohexanoic acid (PFHxA)	EPA 8327	NA	ng/L
Perfluoroheptanoic acid (PFHpA)	EPA 8327	NA	ng/L
Perfluorooctanoic acid (PFOA)	EPA 8327	NA	ng/L
Perfluorononanoic acid (PFNA)	EPA 8327	NA	ng/L
Perfluorodecanoic acid (PFDA)	EPA 8327	NA	ng/L
Perfluoroundecanoic acid (PFUnDA)	EPA 8327	NA	ng/L
Perfluorododecanoic acid (PFDoDA)	EPA 8327	NA	ng/L
Perfluorotridecanoic acid (PFTrDA)	EPA 8327	NA	ng/L
Perfluorotetradecanoic acid (PFTeDA)	EPA 8327	NA	ng/L
N-ethylperfluoro-1-octanesulfonamidoacetic acid (N-EtFOSAA)	EPA 8327	NA	ng/L
N-methylperfluoro-1-octanesulfonamidoacetic acid (N-MeFOSAA)	EPA 8327	NA	ng/L
Perfluoro-1-octanesulfonamide (PFOSA)	EPA 8327	NA	ng/L
NPDES Parameters under CWA:			
Total Suspended Solids	SM 2540 D	2	mg/L
Total Aluminum	EPA 200.7	0.1	mg/L
Total Arsenic	EPA 200.7	0.1	mg/L
Total Cadmium	EPA 200.7	0.05	mg/L
Total Copper	EPA 200.7	0.5	mg/L
Total Lead	EPA 200.7	0.5	mg/L
Total Mercury	EPA 245.1	0.001	mg/L
Total Molybdenum	EPA 200.7	0.5	mg/L
Total Nickel	EPA 200.7	0.5	mg/L
Total Silver	EPA 200.7	0.5	mg/L
Total Zinc	EPA 200.7	0.5	mg/L
Total Kjeldahl Nitrogen (as N)	EPA 351.2	0.5	mg/L
Nitrate - Nitrite (as N)	EPA 353.2	0.04	mg/L
Total Nitrogen	Calculation	NA	mg/L
Total Phosphorus	EPA 365.1	0.05	mg/L
Perchlorate	EPA 6850	0.2	µg/L
Chloroform	EPA 624.1	0.2	µg/L
Biochemical Oxygen Demand (BOD)	SM 5210 B	NA	mg/L
Chemical Oxygen Demand (COD)	SM 5220 C	NA	mg/L
Total Organic Carbon (TOC)	SM 5310 C	0.5	mg/L
Oil and Grease	EPA 1664 B	5	mg/L
Total PCBs	EPA 608	0.001	mg/L
40 CFR Part 122 Appendix D Tables II, III, IV:			
<i>Volatile/Purgeable compounds:</i>			
Acrolein	EPA 624.1	10	µg/L
Acrylonitrile	EPA 624.1	1	µg/L
Benzene	EPA 624.1	1	µg/L
Bromoform	EPA 624.1	1	µg/L
Carbon tetrachloride	EPA 624.1	1	µg/L
Chlorobenzene	EPA 624.1	1	µg/L
Chlorodibromomethane	EPA 624.1	1	µg/L

Analyte or Compound**Method****Required
MRL****Units****40 CFR Part 122 Appendix D Tables II, III, IV (continued):***Volatile/Purgeable compounds (continued):*

Chloroethane	EPA 624.1	1	µg/L
2-chloroethylvinyl ether	EPA 624.1	1	µg/L
Chloroform	EPA 624.1	1	µg/L
Dichlorobromomethane	EPA 624.1	1	µg/L
1,1-dichloroethane	EPA 624.1	1	µg/L
1,2-dichloroethane	EPA 624.1	1	µg/L
1,1-dichloroethylene	EPA 624.1	1	µg/L
1,2-dichloropropane	EPA 624.1	1	µg/L
1,3-dichloropropylene	EPA 624.1	1	µg/L
Ethylbenzene	EPA 624.1	1	µg/L
Methyl bromide	EPA 624.1	1	µg/L
Methyl chloride	EPA 624.1	1	µg/L
Methylene chloride	EPA 624.1	1	µg/L
1,1,2,2-tetrachloroethane	EPA 624.1	1	µg/L
Tetrachloroethylene	EPA 624.1	1	µg/L
Toluene	EPA 624.1	1	µg/L
1,2-trans-dichloroethylene	EPA 624.1	1	µg/L
1,1,1-trichloroethane	EPA 624.1	1	µg/L
1,1,2-trichloroethane	EPA 624.1	1	µg/L
Trichloroethylene	EPA 624.1	1	µg/L
Vinyl chloride	EPA 624.1	1	µg/L

Acid compounds:

2-chlorophenol	EPA 625.1	5	µg/L
2,4-dichlorophenol	EPA 625.1	5	µg/L
2,4-dimethylphenol	EPA 625.1	5	µg/L
4,6-dinitro-o-cresol	EPA 625.1	10	µg/L
2,4-dinitrophenol	EPA 625.1	10	µg/L
2-nitrophenol	EPA 625.1	5	µg/L
4-nitrophenol	EPA 625.1	5	µg/L
p-chloro-m-cresol	EPA 625.1	5	µg/L
pentachlorophenol	EPA 625.1	5	µg/L
phenol	EPA 625.1	1	µg/L
2,4,6-trichlorophenol	EPA 625.1	5	µg/L

Base/Neutral compounds:

acenaphthene	EPA 625.1	5	µg/L
acenaphthylene	EPA 625.1	5	µg/L
anthracene	EPA 625.1	5	µg/L
benzidine	EPA 625.1	50	µg/L
benzo(a)anthracene	EPA 625.1	5	µg/L
benzo(a)pyrene	EPA 625.1	5	µg/L
3,4-benzofluoranthene	EPA 625.1	5	µg/L
benzo(ghi)perylene	EPA 625.1	5	µg/L
benzo(k)fluoranthene	EPA 625.1	5	µg/L
bis(2-chloroethoxy)methane	EPA 625.1	5	µg/L
bis(2-chloroethyl)ether	EPA 625.1	5	µg/L
bis(2-chloroisopropyl)ether	EPA 625.1	5	µg/L
bis (2-ethylhexyl)phthalate	EPA 625.1	5	µg/L
4-bromophenyl phenyl ether	EPA 625.1	5	µg/L
butylbenzyl phthalate	EPA 625.1	5	µg/L
2-chloronaphthalene	EPA 625.1	5	µg/L
4-chlorophenyl phenyl ether	EPA 625.1	5	µg/L
chrysene	EPA 625.1	5	µg/L
dibenzo(a,h)anthracene	EPA 625.1	5	µg/L
1,2-dichlorobenzene	EPA 625.1	5	µg/L
1,3-dichlorobenzene	EPA 625.1	5	µg/L
1,4-dichlorobenzene	EPA 625.1	5	µg/L
3,3'-dichlorobenzidine	EPA 625.1	5	µg/L
diethyl phthalate	EPA 625.1	5	µg/L
dimethyl phthalate	EPA 625.1	5	µg/L

Analyte or Compound**Method****Required
MRL****Units****40 CFR Part 122 Appendix D Tables II, III, IV (continued):***Base/Neutral Compounds (continued):*

di-n-butyl phthalate	EPA 625.1	5	µg/L
2,4-dinitrotoluene	EPA 625.1	5	µg/L
2,6-dinitrotoluene	EPA 625.1	5	µg/L
di-n-octyl phthalate	EPA 625.1	5	µg/L
1,2-diphenylhydrazine (as azobenzene)	EPA 625.1	5	µg/L
fluroanthene	EPA 625.1	5	µg/L
fluorene	EPA 625.1	5	µg/L
hexachlorobenzene	EPA 625.1	5	µg/L
hexachlorobutadiene	EPA 625.1	5	µg/L
hexachlorocyclopentadiene	EPA 625.1	15	µg/L
hexachloroethane	EPA 625.1	5	µg/L
indeno(1,2,3-cd)pyrene	EPA 625.1	5	µg/L
isophorone	EPA 625.1	5	µg/L
naphthalene	EPA 625.1	5	µg/L
nitrobenzene	EPA 625.1	5	µg/L
N-nitrosodimethylamine	EPA 625.1	5	µg/L
N-nitrosodi-n-propylamine	EPA 625.1	5	µg/L
N-nitrosodiphenylamine	EPA 625.1	5	µg/L
phenanthrene	EPA 625.1	5	µg/L
pyrene	EPA 625.1	5	µg/L
1,2,4-trichlorobenzene	EPA 625.1	5	µg/L

Pesticides:

aldrin	EPA 608.3	0.01	µg/L
alpha-BHC	EPA 608.3	0.05	µg/L
beta-BHC	EPA 608.3	0.1	µg/L
gamma-BHC	EPA 608.3	0.05	µg/L
delta-BHC	EPA 608.3	0.05	µg/L
chlordane	EPA 608.3	0.5	µg/L
4,4'-DDT	EPA 608.3	0.02	µg/L
4,4'-DDE	EPA 608.3	0.05	µg/L
4,4'-DDD	EPA 608.3	0.02	µg/L
dieldrin	EPA 608.3	0.02	µg/L
alpha-endosulfan	EPA 608.3	0.01	µg/L
beta-endosulfan	EPA 608.3	0.02	µg/L
endosulfan sulfate	EPA 608.3	0.02	µg/L
endrin	EPA 608.3	0.1	µg/L
endrin aldehyde	EPA 608.3	0.02	µg/L
heptachlor	EPA 608.3	0.01	µg/L
heptachlor epoxide	EPA 608.3	0.1	µg/L
PCB-1242	EPA 608.3	0.5	µg/L
PCB-1254	EPA 608.3	0.5	µg/L
PCB-1221	EPA 608.3	0.5	µg/L
PCB-1232	EPA 608.3	0.5	µg/L
PCB-1248	EPA 608.3	0.5	µg/L
PCB-1260	EPA 608.3	0.5	µg/L
PCB-1016	EPA 608.3	0.5	µg/L
toxaphene	EPA 608.3	1	µg/L

Metals, Cyanide, & Total Phenols:

Antimony, Total	EPA 200.7	0.05	mg/L
Arsenic, Total	EPA 200.7	0.05	mg/L
Beryllium, Total	EPA 200.7	0.005	mg/L
Cadmium, Total	EPA 200.7	0.005	mg/L
Chromium, Total	EPA 200.7	0.015	mg/L
Copper, Total	EPA 200.7	0.02	mg/L
Lead, Total	EPA 200.7	0.015	mg/L
Mercury, Total	EPA 245.1	0.2	mg/L
Nickel, Total	EPA 200.7	0.01	mg/L
Selenium, Total	EPA 200.7	0.05	mg/L
Silver, Total	EPA 200.7	0.01	mg/L

Analyte or Compound**Method****Required
MRL****Units****40 CFR Part 122 Appendix D Tables II, III, IV (continued):***Metals, Cyanide, & Total Phenols (continued):*

Thallium, Total	EPA 200.7	0.05	mg/L
Zinc, Total	EPA 200.7	0.05	mg/L
Cyanide, Total	EPA 335.4	0.01	mg/L
Phenols, Total	EPA 420.4	0.05	mg/L

Conventional and Nonconventional Pollutants (continued):

Bromide	EPA 300.0	0.2	mg/L
Color	SM 2120 B	5	PCU
Fecal Coliform	SM 9222 D	NA	CFU/100mL
Fluoride	EPA 300.0	0.05	mg/L
Nitrate-Nitrite	EPA 353.2	0.05	mg/L
Nitrogen, Total Organic	EPA 351.2	1	mg/L
Oil and Grease	EPA 1664 B	5	mg/L
Phosphorus, Total	EPA 365.1	0.1	mg/L
Radioactivity	EPA 900, 903, 904	varies	pCi/L
Sulfate	EPA 300.0	2	mg/L
Sulfide	SM 4500 S2 D	0.5	mg/L
Sulfite	SM 4500 SO3 B	5	mg/L
Surfactants	SM 5540 C	0.1	mg/L
Aluminum, Total	EPA 200.7	0.3	mg/L
Barium, Total	EPA 200.7	0.005	mg/L
Boron, Total	EPA 200.7	0.05	mg/L
Cobalt, Total	EPA 200.7	0.005	mg/L
Iron, Total	EPA 200.7	0.2	mg/L
Magnesium, Total	EPA 200.7	0.1	mg/L
Molybdenum, Total	EPA 200.7	0.01	mg/L
Manganese, Total	EPA 200.7	0.01	mg/L
Tin, Total	EPA 200.7	0.05	mg/L
Titanium, Total	EPA 200.7	0.01	mg/L

Pharmaceuticals & Personal Care Products:

Acetaminophen	EPA 1694	200	ng/L
Albuterol	EPA 1694	2	ng/L
Ampicillin	EPA 1694	5	ng/L
Anhydrochlortetracycline (ACTC)	EPA 1694	50	ng/L
Anhydrotetracycline (ATC)	EPA 1694	50	ng/L
Azithromycin	EPA 1694	5	ng/L
Caffeine	EPA 1694	50	ng/L
Carbadox	EPA 1694	5	ng/L
Carbamazepine	EPA 1694	5	ng/L
Cefotaxime	EPA 1694	20	ng/L
Chlortetracycline (CTC)	EPA 1694	20	ng/L
Cimetidine	EPA 1694	2	ng/L
Ciprofloxacin	EPA 1694	20	ng/L
Clarithromycin	EPA 1694	5	ng/L
Clinafloxacin	EPA 1694	20	ng/L
Cloxacillin	EPA 1694	10	ng/L
Codeine	EPA 1694	10	ng/L
Cotinine	EPA 1694	5	ng/L
Dehydronifedipine	EPA 1694	2	ng/L
Demeclocycline	EPA 1694	50	ng/L
Digoxigenin	EPA 1694	20	ng/L
Digoxin	EPA 1694	50	ng/L
Diltiazem	EPA 1694	2	ng/L
1,7-Dimethylxanthine	EPA 1694	500	ng/L
Diphenhydramine	EPA 1694	2	ng/L
Doxycycline	EPA 1694	20	ng/L
Enrofloxacin	EPA 1694	10	ng/L
4-Epianhydrochlortetracycline (EACTC)	EPA 1694	200	ng/L
4-Epianhydrotetracycline (EATC)	EPA 1694	50	ng/L
4-Epichlortetracycline (ECTC)	EPA 1694	50	ng/L

<u>Analyte or Compound</u>	<u>Method</u>	<u>Required MRL</u>	<u>Units</u>
Pharmaceuticals & Personal Care Products (continued):			
4-Epioxytetracycline (EOTC)	EPA 1694	20	ng/L
4-Epitetracycline (ETC)	EPA 1694	20	ng/L
Erythromycin	EPA 1694	1	ng/L
Erythromycin anhydrate	EPA 1694	2	ng/L
Flumequine	EPA 1694	5	ng/L
Fluoxetine	EPA 1694	10	ng/L
Gemfibrozil	EPA 1694	5	ng/L
Ibuprofen	EPA 1694	50	ng/L
Isochlortetracycline (ICTC)	EPA 1694	20	ng/L
Lincomycin	EPA 1694	10	ng/L
Lomefloxacin	EPA 1694	10	ng/L
Metformin	EPA 1694	100	ng/L
Miconazole	EPA 1694	5	ng/L
Minocycline	EPA 1694	200	ng/L
Naproxen	EPA 1694	10	ng/L
Norfloxacin	EPA 1694	50	ng/L
Norgestimate	EPA 1694	10	ng/L
Ofloxacin	EPA 1694	5	ng/L
Ormetoprim	EPA 1694	2	ng/L
Oxacillin	EPA 1694	10	ng/L
Oxolinic acid	EPA 1694	2	ng/L
Oxytetracycline (OTC)	EPA 1694	20	ng/L
Penicillin V	EPA 1694	10	ng/L
Penicillin G	EPA 1694	20	ng/L
Ranitidine	EPA 1694	2	ng/L
Roxithromycin	EPA 1694	1	ng/L
Sarafloxacin	EPA 1694	200	ng/L
Sulfachloropyridazine	EPA 1694	5	ng/L
Sulfadiazine	EPA 1694	5	ng/L
Sulfadimethoxine	EPA 1694	1	ng/L
Sulfamerazine	EPA 1694	2	ng/L
Sulfamethazine	EPA 1694	2	ng/L
Sulfamethizole	EPA 1694	2	ng/L
Sulfamethoxazole	EPA 1694	2	ng/L
Sulfanilamide	EPA 1694	50	ng/L
Sulfathiazole	EPA 1694	5	ng/L
Tetracycline (TC)	EPA 1694	20	ng/L
Thiabendazole	EPA 1694	5	ng/L
Triclocarban	EPA 1694	10	ng/L
Triclosan	EPA 1694	200	ng/L
Trimethoprim	EPA 1694	5	ng/L
Tylosin	EPA 1694	50	ng/L
Virginiamycin	EPA 1694	10	ng/L
Warfarin	EPA 1694	5	ng/L
Pyrethrins and Pyrethroids:			
Pyrethrin II	EPA 1660	3	µg/L
Tetramethrin	EPA 1660	5	µg/L
Allethrin	EPA 1660	5	µg/L
Pyrethrin I	EPA 1660	3	µg/L
Cyfluthrin	EPA 1660	5	µg/L
Resmethrin	EPA 1660	5	µg/L
Fenvalerate	EPA 1660	3	µg/L
C/T-permethrin	EPA 1660	5	µg/L
Sumithrin	EPA 1660	5	µg/L
Pesticides and Flame Retardants:			
Dimethoate	EPA 527	0.5	µg/L
Atrazine	EPA 527	0.5	µg/L
Propazine	EPA 527	0.5	µg/L
Vinclozolin	EPA 527	0.5	µg/L
Prometryn	EPA 527	0.5	µg/L

<u>Analyte or Compound</u>	<u>Method</u>	<u>Required MRL</u>	<u>Units</u>
Pesticides and Flame Retardants (continued):			
Bromacil	EPA 527	0.5	µg/L
Malathion	EPA 527	0.5	µg/L
Chlorpyrifos	EPA 527	0.5	µg/L
Thiobencarb	EPA 527	0.5	µg/L
Parathion	EPA 527	0.5	µg/L
Terbufos-Sulfone	EPA 527	0.5	µg/L
Oxychlorane	EPA 527	0.5	µg/L
Esbiol	EPA 527	0.5	µg/L
Nitrophen	EPA 527	0.5	µg/L
Kepone	EPA 527	0.5	µg/L
Norflurazon	EPA 527	0.5	µg/L
Hexazinone	EPA 527	0.5	µg/L
Bifenthrin	EPA 527	0.5	µg/L
2,2',4,4'-Tetrabromodiphenyl Ether (BDE-47)	EPA 527	0.5	µg/L
Mirex	EPA 527	0.5	µg/L
2,2',4,4',6-Pentabromodiphenyl Ether (BDE-100)	EPA 527	0.5	µg/L
2,2',4,4',5-Pentabromodiphenyl Ether (BDE-99)	EPA 527	0.5	µg/L
Hexabromobiphenyl	EPA 527	0.5	µg/L
Fenvalerate	EPA 527	0.5	µg/L
Esfenvalerate	EPA 527	0.5	µg/L
2,2',4,4',5,5'-Hexabromodiphenyl Ether (BDE-153)	EPA 527	0.5	µg/L
Brominated Diphenyl Ethers:			
209 BDE congeners listed in method	EPA 1614	NA	pg/L
Total Phenols:			
Total Phenols	EPA 420.4	2	µg/L
Semivolatiles:			
177 base/neutrals and acid extractables listed in method	EPA 1625	NA	µg/L
Chlorination Disinfection Byproducts:			
Chloroform	EPA 551.1	NA	µg/L
Bromodichloromethane	EPA 551.1	NA	µg/L
Bromoform	EPA 551.1	NA	µg/L
Dibromochloromethane	EPA 551.1	NA	µg/L
Bromochloroacetonitrile	EPA 551.1	NA	µg/L
Dibromoacetonitrile	EPA 551.1	NA	µg/L
Dichloroacetonitrile	EPA 551.1	NA	µg/L
Trichloroacetonitrile	EPA 551.1	NA	µg/L
Chloral Hydrate	EPA 551.1	NA	µg/L
Chloropicrin	EPA 551.1	NA	µg/L
1,1-Dichloro-2-propanone	EPA 551.1	NA	µg/L
1,1,1-Trichloro-2-propanone	EPA 551.1	NA	µg/L
Chlorinated Solvents:			
Carbon Tetrachloride	EPA 551.1	NA	µg/L
1,2-Dibromo-3-chloropropane [DBCP]	EPA 551.1	NA	µg/L
1,2-Dibromoethane [EDB]	EPA 551.1	NA	µg/L
Tetrachloroethylene	EPA 551.1	NA	µg/L
1,1,1-Trichloroethane	EPA 551.1	NA	µg/L
1,1,2-Trichloroethane	EPA 551.1	NA	µg/L
Trichloroethylene	EPA 551.1	NA	µg/L
1,2,3-Trichloropropane	EPA 551.1	NA	µg/L
Pesticides/Herbicides:			
Alachlor	EPA 551.1	NA	µg/L
Atrazine	EPA 551.1	NA	µg/L
Bromacil	EPA 551.1	NA	µg/L
Cyanazine	EPA 551.1	NA	µg/L
Endrin	EPA 551.1	NA	µg/L
Endrin Aldehyde	EPA 551.1	NA	µg/L

<u>Analyte or Compound</u>	<u>Method</u>	<u>Required MRL</u>	<u>Units</u>
Pesticides/Herbicides (continued):			
Endrin Ketone	EPA 551.1	NA	µg/L
Heptachlor	EPA 551.1	NA	µg/L
Heptachlor Epoxide	EPA 551.1	NA	µg/L
Hexachlorobenzene	EPA 551.1	NA	µg/L
Hexachlorocyclopentadiene	EPA 551.1	NA	µg/L
Lindane (gamma-BHC)	EPA 551.1	NA	µg/L
Metolachlor	EPA 551.1	NA	µg/L
Metribuzin	EPA 551.1	NA	µg/L
Methoxychlor	EPA 551.1	NA	µg/L
Simazine	EPA 551.1	NA	µg/L
Trifluralin	EPA 551.1	NA	µg/L
Semivolatiles:			
126 compounds listed in the method	EPA 525.3	NA	µg/L
Alcohols:			
1-Butanol	EPA 541	1	µg/L
2-Methoxyethanol	EPA 541	0.4	µg/L
2-Propen-1-ol (allyl alcohol)	EPA 541	0.5	µg/L
Purgeable Organic Compounds by GC/MS:			
Benzene	EPA 624	NA	µg/L
Bromodichloromethane	EPA 624	NA	µg/L
Bromoform	EPA 624	NA	µg/L
Bromomethane	EPA 624	NA	µg/L
Carbon tetrachloride	EPA 624	NA	µg/L
Chlorobenzene	EPA 624	NA	µg/L
Chloroethane	EPA 624	NA	µg/L
2-Chloroethylvinyl ether	EPA 624	NA	µg/L
Chloroform	EPA 624	NA	µg/L
Chloromethane	EPA 624	NA	µg/L
Dibromochloromethane	EPA 624	NA	µg/L
1,2-Dichlorobenzene	EPA 624	NA	µg/L
1,3-Dichlorobenzene	EPA 624	NA	µg/L
1,4-Dichlorobenzene	EPA 624	NA	µg/L
1,1-Dichloroethane	EPA 624	NA	µg/L
1,2-Dichloroethane	EPA 624	NA	µg/L
1,1-Dichloroethane	EPA 624	NA	µg/L
trans-1,2-Dichloroethene	EPA 624	NA	µg/L
1,2-Dichloropropane	EPA 624	NA	µg/L
cis-1,3-Dichloropropene	EPA 624	NA	µg/L
trans-1,3-Dichloropropene	EPA 624	NA	µg/L
Ethyl benzene	EPA 624	NA	µg/L
Methylene chloride	EPA 624	NA	µg/L
1,1,2,2-Tetrachloroethane	EPA 624	NA	µg/L
Tetrachloroethene	EPA 624	NA	µg/L
Toluene	EPA 624	NA	µg/L
1,1,1-Trichloroethene	EPA 624	NA	µg/L
1,1,2-Trichloroethene	EPA 624	NA	µg/L
Trichloroethane	EPA 624	NA	µg/L
Trichlorofluoromethane	EPA 624	NA	µg/L
Vinyl chloride	EPA 624	NA	µg/L
Base/Neutrals and Acids by GC/MS:			
Acenaphthene	EPA 625	NA	µg/L
Acenaphthylene	EPA 625	NA	µg/L
Anthracene	EPA 625	NA	µg/L
Aldrin	EPA 625	NA	µg/L
Benzo(a)anthracene	EPA 625	NA	µg/L
Benzo(b)fluoranthene	EPA 625	NA	µg/L
Benzo(k)fluoranthene	EPA 625	NA	µg/L
Benzo(a)pyrene	EPA 625	NA	µg/L

Analyte or Compound**Method****Required
MRL****Units****Base/Neutrals and Acids by GC/MS (continued):**

Benzo(ghi)perylene	EPA 625	NA	µg/L
Benzyl butyl phthalate	EPA 625	NA	µg/L
β-BHC	EPA 625	NA	µg/L
δ-BHC	EPA 625	NA	µg/L
Bis(2-chloroethyl) ether	EPA 625	NA	µg/L
Bis(2-chloroethoxy)methane	EPA 625	NA	µg/L
Bis(2-ethylhexyl) phthalate	EPA 625	NA	µg/L
Bis(2-chloroisopropyl) ethera	EPA 625	NA	µg/L
4-Bromophenyl phenyl ethera	EPA 625	NA	µg/L
Chlordane	EPA 625	NA	µg/L
2-Chloronaphthalele	EPA 625	NA	µg/L
4-Chlorophenyl phenyl ether	EPA 625	NA	µg/L
Chrysene	EPA 625	NA	µg/L
4,4'-DDD	EPA 625	NA	µg/L
4,4'-DDE	EPA 625	NA	µg/L
4,4'-DDT	EPA 625	NA	µg/L
Dibenzo(a,h)anthracene	EPA 625	NA	µg/L
Di-n-butylphthalate	EPA 625	NA	µg/L
1,3-Dichlorobenzene	EPA 625	NA	µg/L
1,2-Dichlorobenzene	EPA 625	NA	µg/L
1,4-Dichlorobenzene	EPA 625	NA	µg/L
3,3'-Dichlorobenzidine	EPA 625	NA	µg/L
Dieldrin	EPA 625	NA	µg/L
Diethyl phthalate	EPA 625	NA	µg/L
Dimethyl phthalate	EPA 625	NA	µg/L
2,4-Dinitrotoluene	EPA 625	NA	µg/L
2,6-Dinitrotoluene	EPA 625	NA	µg/L
Di-n-octylphthalate	EPA 625	NA	µg/L
Endosulfan sulfate	EPA 625	NA	µg/L
Endrin aldehyde	EPA 625	NA	µg/L
Fluoranthene	EPA 625	NA	µg/L
Fluorene	EPA 625	NA	µg/L
Heptachlor	EPA 625	NA	µg/L
Heptchlor epoxide	EPA 625	NA	µg/L
Hexachlorobenzene	EPA 625	NA	µg/L
Hexachlorobutadiene	EPA 625	NA	µg/L
Hexachloroethane	EPA 625	NA	µg/L
Indeno(1,2,3-cd)pyrene	EPA 625	NA	µg/L
Isophorone	EPA 625	NA	µg/L
Naphthalene	EPA 625	NA	µg/L
Nitrobenzene	EPA 625	NA	µg/L
N-Nitrosodi-n-propylamine	EPA 625	NA	µg/L
PCB-1016	EPA 625	NA	µg/L
PCB-1221	EPA 625	NA	µg/L
PCB-1232	EPA 625	NA	µg/L
PCB-1242	EPA 625	NA	µg/L
PCB-1248	EPA 625	NA	µg/L
PCB-1254	EPA 625	NA	µg/L
PCB-1260	EPA 625	NA	µg/L
Phenanthrene	EPA 625	NA	µg/L
Pyrene	EPA 625	NA	µg/L
Toxaphene	EPA 625	NA	µg/L
1,2,4-Trichlorobenzene	EPA 625	NA	µg/L
4-Chloro-3-methylphenol	EPA 625	NA	µg/L
2-Chlorophenol	EPA 625	NA	µg/L
2,4-Dichlorophenol	EPA 625	NA	µg/L
2,4-Dimethylphenol	EPA 625	NA	µg/L
2,4-Dinitrophenol	EPA 625	NA	µg/L
2-Methyl-4,6-dinitrophenol	EPA 625	NA	µg/L
2-Nitrophenol	EPA 625	NA	µg/L
4-Nitrophenol	EPA 625	NA	µg/L
Pentachlorophenol	EPA 625	NA	µg/L

<u>Analyte or Compound</u>	<u>Method</u>	<u>Required MRL</u>	<u>Units</u>
Base/Neutrals and Acids by GC/MS (continued):			
Phenol	EPA 625	NA	µg/L
2,4,6-Trichlorophenol	EPA 625	NA	µg/L
Metals by ICP-AES (continued):			
Aluminum	EPA 6010	NA	µg/L
Antimony	EPA 6010	NA	µg/L
Arsenic	EPA 6010	NA	µg/L
Barium	EPA 6010	NA	µg/L
Beryllium	EPA 6010	NA	µg/L
Boron	EPA 6010	NA	µg/L
Cadmium	EPA 6010	NA	µg/L
Calcium	EPA 6010	NA	µg/L
Chromium	EPA 6010	NA	µg/L
Cobalt	EPA 6010	NA	µg/L
Copper	EPA 6010	NA	µg/L
Iron	EPA 6010	NA	µg/L
Lead	EPA 6010	NA	µg/L
Lithium	EPA 6010	NA	µg/L
Magnesium	EPA 6010	NA	µg/L
Manganese	EPA 6010	NA	µg/L
Mercury	EPA 6010	NA	µg/L
Molybdenum	EPA 6010	NA	µg/L
Nickel	EPA 6010	NA	µg/L
Phosphorus	EPA 6010	NA	µg/L
Selenium	EPA 6010	NA	µg/L
Silica	EPA 6010	NA	µg/L
Silver	EPA 6010	NA	µg/L
Sodium	EPA 6010	NA	µg/L
Stontium	EPA 6010	NA	µg/L
Thallium	EPA 6010	NA	µg/L
Tin	EPA 6010	NA	µg/L
Vanadium	EPA 6010	NA	µg/L
Zinc	EPA 6010	NA	µg/L
Total Petroleum Hydrocarbons:			
Gasoline Range Organics	EPA 8015	NA	µg/L
Diesel Range Organics	EPA 8015	NA	µg/L
Oil and Grease:			
N-Hexane Extactable Material (HEM)	EPA 1664	NA	mg/L
Silica Gel Treated HEM (SGT-HEM)	EPA 1664	NA	mg/L
Explosives and Propellant Residues:			
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	EPA 8330 B	NA	µg/L
Hexahydro-1,3,5-trinitro-1,3,5-triazine	EPA 8330 B	NA	µg/L
1,3,5-Trinitrobenzene	EPA 8330 B	NA	µg/L
1,3-Dinitrobenzene	EPA 8330 B	NA	µg/L
Methyl-2,4,6-trinitrophenylnitramine	EPA 8330 B	NA	µg/L
Nitrobenzene	EPA 8330 B	NA	µg/L
2,4,6-Trinitrotoluene	EPA 8330 B	NA	µg/L
4-Amino-2,6-dinitrotoluene	EPA 8330 B	NA	µg/L
2-Amino-4,6-dinitrotoluene	EPA 8330 B	NA	µg/L
2,4-Dinitrotoluene	EPA 8330 B	NA	µg/L
2,6-Dinitrotoluene	EPA 8330 B	NA	µg/L
2-Nitrotoluene	EPA 8330 B	NA	µg/L
3-Nitrotoluene	EPA 8330 B	NA	µg/L
4-Nitrotoluene	EPA 8330 B	NA	µg/L
Nitroglycerin	EPA 8330 B	NA	µg/L
Pentaerythritol tetranitrate	EPA 8330 B	NA	µg/L
3,5-Dinitroaniline	EPA 8330 B	NA	µg/L

<u>Analyte or Compound</u>	<u>Method</u>	<u>Required MRL</u>	<u>Units</u>
VOCs by GC/MS with SIM: All Method Compounds	EPA 8260	NA	µg/L
SVOCs by GC/MS with SIM: All Method Compounds	EPA 8270	NA	µg/L
PCBs by GC: All Method Compounds	EPA 8082	NA	ug/L
Organophosphorus Compounds by GC-FPD/NPD: All Method Compounds	EPA 8141	NA	µg/L
Organochlorine Pesticides by GC-ECD: All Method Compounds	EPA 8081	NA	µg/L

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