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IMPORTANT DATES TO REMEMBER

March 20, 2020:	**DMR-QA Study 40 begins**
May 29, 2020:	**Submit address verification to DMR-QA Coordinator**
September 18, 2020:	**DMR-QA Study 40 ends**
November 20, 2020:	**Submit DMR-QA 40 Results to DMR-QA Coordinator**
January 15, 2021:	**Submit corrective action reports and retest results to DMR-QA Coordinator, if applicable**

IMPORTANT NOTICE TO NPDES PERMITTEES
DMR-QA Study 40 Announcement

DMR-QA STUDY 40

Immediately verify receipt of DMR-QA Study 40 by either filling out the form below and mailing this page to your State DMR-QA Coordinator (listed on pages 7-8) or follow the e-mail instructions at the bottom of this page.

The mailed form must be postmarked on or before **May 29, 2020**.

NPDES PERMITTEE ADDRESS VERIFICATION FORM
Discharge Monitoring Report - Quality Assurance (DMR-QA) Study 40
Please provide corrections to the mailing address where all DMR-QA study paperwork should be sent.

State ☐ NPDES Permit Number ☐☐☐☐☐☐☐

(2-character State Code + 7 digit Permit Code as shown on the mailing label, for example AR1234567)

If contact/address information from the mailing label or e-mail is correct, please check this box only → ☐

Facility Name					
Contact Name		Title			
Mailing Address					
City		State		Zip Code	
Phone Number		Fax Number			
E-mail Address					

ELECTRONIC NOTIFICATION PROCEDURE

You may verify receipt electronically by sending an e-mail on or before **May 29, 2020** to your State DMR-QA Coordinator (listed on pages 7-8 of the enclosed instructions). The e-mail should be composed in the following manner:

1. Subject line should contain **ONLY** the NPDES Permit number (2-character State Code + 7-digit Permit Code as shown on the mailing label, for example AR1234567).
2. If you require any changes to the mailing label on this announcement, the body of the e-mail should contain a list including: Company name, Contact Name/Title, Mailing Address, City, State, Zip Code, Facility Type (select one: federal, state, local or commercial/private). Otherwise, you may simply write "No changes to address or contact information" in the body of the e-mail.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF
ENFORCEMENT AND
COMPLIANCE ASSURANCE

April 28, 2020

Dear NPDES Permit Holder:

This letter initiates the 2020 Discharge Monitoring Report - Quality Assurance (DMR-QA) Study 40. By receipt of this letter, you are required under Clean Water Act (CWA) Section 308 to participate in DMR-QA Study 40 unless your facility is covered by an EPA waiver.[1] Your participation plays a key role in monitoring the quality of data used to assure the integrity of the CWA's National Pollutant Discharge Elimination System (NPDES) Program and assures your ability to maintain compliance with NPDES permit conditions.

DMR-QA Study 40 covers major and select minor NPDES permit holders. You (the permittee) are responsible for ensuring that results of DMR-QA Study tests, performed by your in-house and/or contract laboratories, are graded by an accredited Proficiency Testing (PT) Provider. If any graded results are "Not Acceptable", you must follow up with the laboratory to determine the cause of the deficiency and ensure corrective action is taken to prevent future occurrences. While performing tests and analyses, please ensure that your test methods/procedures follow 40 CFR part 136 regulations and applicable guidance. Use the same personnel and equipment as you would for routine NPDES permit compliance monitoring tests.

Changes related to the COVID-19 pandemic
EPA is aware of the challenges that permittees and laboratories face with the COVID-19 public health emergency. To provide greater flexibility to permittees and laboratories, EPA will continue this year's study under a modified schedule. Please review the dates on page 1 for schedule and milestone changes.

What additional changes were made to DMR-QA Study 40?
As a reminder, when permittees submit the NPDES Permittee Data Report Form and Checklists at the end of this package, you (the Permittee) must sign and date the certification statement on page 10 and sign and date the Chemistry/Microbiology and/or Whole Effluent Toxicity checklists (pages 12 and 13) that apply to your Permittee Data Package. The directions concerning laboratories who order retests to satisfy corrective action have been modified; laboratories who order retests must use a Water Pollution (WP) study or a quick turnaround PT sample that closes on or before December 31, 2020 in order to submit a valid corrective action report.

Further information
Permittees with valid e-mail addresses will receive the DMR-QA Study by e-mail. You may request a hard copy from EPA by sending an e-mail to dmrqa@epa.gov. Questions on the national program should be addressed to Greg Savitske (dmrqa@epa.gov, 202-564-2601), EPA's National DMR-QA Coordinator. State and EPA Regional DMR-QA contact information is provided on pages 6-8. Please reference your NPDES permit number on all correspondence.

Thank you for your attention to this Clean Water Act Section 308 requirement.

Sincerely,

Martha Segall, Acting Director
Monitoring, Assistance, and Media Programs Division
Office of Compliance

Enclosures

[1] EPA is authorized to collect this information under Section 308 of the Clean Water Act, 33 U.S.C. § 1318. This information request is enforceable under 33 U.S.C. § 1319. EPA may grant a waiver from participating in DMR-QA to states with laboratory quality assurance programs approved by EPA as a substitute for the DMR-QA Study. Refer to the footnote on page 2 to determine if you are covered by an EPA waiver, or contact your State DMR-QA Coordinator.

DMR-QA Study 40

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Checklist and Schedule for DMR-QA Study 40

Deadline*	Permittee	In-House and Contract Laboratories	PT Providers
March 20, 2020	☐ Study 40 begins ☐ Notify all laboratories of DMR-QA Study 40	☐ Study 40 begins ☐ Order test samples from PT Provider. If using WP study to satisfy DMR-QA requirements, specify that to PT Provider when ordering test samples.	
May 29, 2020	☐ Send Address Verification Form (inside cover of this package) to the State DMR-QA Coordinator by e-mail or postal mail to confirm receipt of Study 40 Announcement		
September 18, 2020	☐ Study 40 ends	☐ Study 40 ends ☐ Send ungraded Data Report to PT Providers (include a list of all NPDES permits using your laboratory data)	☐ Study 40 ends
October 16, 2020			☐ Send PT Provider-graded test results, for each permit (listed by NPDES permit numbers), to: - Laboratory - State DMR-QA coordinators
October 30, 2020	☐ After receipt of PT Provider-graded results, ensure laboratories perform retests for any analytes graded "Not Acceptable"	☐ Forward PT Provider-graded test results to the Permittee ☐ Order retest samples from PT Provider for all "Not Acceptable" analyte test results. If using a WP study or quick PT turnaround sample to satisfy corrective action, data must be reported to the PT Provider by their published closing date, even if it is prior to the DMR-QA deadline of **December 31, 2020**.	
November 20, 2020	☐ Send one signed copy of the NPDES Permittee Data Report Form, copies of the PT Provider-graded test results, and copies of the Chemistry/Microbiology and WET Checklists for each laboratory used, to the State DMR-QA Coordinator	☐ Send corrective action letter including any retest results as soon as possible to your Permittee, if applicable.	
January 15, 2021	☐ Submit corrective action report including retest results to the State DMR-QA Coordinator, if applicable		

*** All materials must be sent on or before the date provided.**

DMR-QA STUDY 40 - Frequently Asked Questions

Am I required to participate in this Discharge Monitoring Report - Quality Assurance (DMR-QA) Study?
NPDES Major and select Minor permit holders are required to participate in the DMR-QA studies. Be sure to verify the NPDES permit number on the front of this package or indicated in your e-mail. If you believe you received this study in error, contact your State DMR-QA Coordinator (pages 7-8). Some permit holders are not required to perform the DMR-QA study because they are located in a state that has a laboratory quality assurance program approved by EPA as a substitute for DMR-QA.[2]

What is the purpose of this DMR-QA Study?
The purpose of DMR-QA Study 40 is to ensure the integrity of data submitted by the permittee for DMR reporting requirements and evaluate performance of the laboratories to analyze wastewater samples.

What laboratory tests are required under DMR-QA?
Permittees are responsible for having their laboratory(ies) test wastewater analytes that are both in their NPDES permit and included in Study 40. For required Whole Effluent Toxicity (WET) tests, permittees must participate even if the test conditions (e.g., temperature, time of acute test, synthetic seawater matrix, etc.) in the permit do not exactly match those in Study 40. Refer to "WET Testing Laboratory Instructions" (page 5) for more information.

How should laboratory personnel perform DMR-QA tests?
For all pollutant parameters, especially field test parameters (e.g., pH, residual chlorine), use the same personnel and equipment as required for NPDES permit compliance monitoring tests. Ensure your test methods and procedures follow 40 CFR part 136 regulations.

Where can laboratories get test samples?
Laboratories may order DMR-QA samples from a Proficiency Test (PT) Provider accredited by the American Association for Laboratory Accreditation (A2LA) or the ANSI National Accreditation Board (ANAB). A list of accredited PT Providers is provided on page 6.

What should permittees and laboratories do first?
Permittees must first confirm receipt of this package by **May 29, 2020** to their State DMR-QA Coordinator (pages 6-8) via e-mail or postal mail. Permittees must also send a copy of the enclosed instructions/checklists to all in-house and contract laboratories. The permittee specifies on the checklist which analyses the laboratory will perform. See Permittee Instructions (page 3) for more information. Upon receipt of instructions, laboratories must order samples from an accredited PT Provider (page 6). This should be done early to allow sufficient time to perform the required analyses and send ungraded results to the PT Provider prior to the close of DMR-QA Study 40 (**September 18, 2020**). See Laboratory Instructions (pages 4-5) for more information.

Can I use a Water Pollution (WP) Study to satisfy DMR-QA requirements?
Yes, permittees may use a WP study to satisfy some or all of the DMR-QA requirements. However, only results from WP studies closing between **January 1** and **September 18, 2020** will be accepted. See Permittee Instructions for more information (Step 5 on page 3).

What steps do I take after the proficiency testing?
After laboratories report their data to the PT Providers, the PT Provider issues a report to the laboratory and the State DMR-QA Coordinator, indicating the results were "Acceptable" or "Not Acceptable." The laboratory must then forward a copy of the graded report to the permittee. The permittee subsequently completes the checklists on pages 12-13, indicating the laboratory's grade for each required analyte. One set of checklists must be used for each laboratory. The permittee must also fill out the NPDES Permittee Data Report Form (EPA Form 6400-01, pages 9-11) and submit a signed copy with the completed checklists and copies of the laboratory's graded reports to the State DMR-QA Coordinator by **November 20, 2020**.

What do I do if a laboratory receives a "Not Acceptable" result?
If any graded results are "Not Acceptable," the permittee must follow up with the laboratory to determine the cause of the result and take corrective action to prevent future occurrences. The laboratory must order retesting samples, analyze them, and write a corrective action response for the permittee. The permittee then submits retest results and a corrective action report to the State DMR-QA Coordinator by **January 15, 2021**. Note: If the laboratory requires a retest to satisfy the corrective action, the laboratory must use a WP study or a quick turnaround PT sample that closes on or before **December 31, 2020**.

Where do I go for more information?
DMR-QA resources including fill-and-print forms are available at https://www.epa.gov/compliance/discharge-monitoring-report-quality-assurance-study-program.

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[2] As of April 1, 2020, permittees in the following states have laboratory quality assurance programs approved by EPA as a substitute for DMR-QA Study 40: CA, KS, KY, NJ, NV, NC, PA, SC, UT, VA, WV and WI. Louisiana has an approved laboratory quality assurance program for commercial laboratories only. NPDES permittees in Arkansas, Maine, New Hampshire and Oklahoma that are covered by their State laboratory accreditation program are also exempted from DMR-QA Study 40. Laboratories in Arkansas, Maine, New Hampshire, and Oklahoma not fully certified by the State must perform DMR-QA studies. Check with your State DMR-QA Coordinator if you have questions about your state's waiver status.

NPDES Permittee Instructions

1. Verify your participation in DMR-QA Study 40 by confirming the NPDES permit number on the front of this package or in e-mail. If you believe you received this study in error or have questions about your exemption status, contact your State DMR-QA Coordinator (pages 7-8). Please refer to Footnote 2 of the Frequently Asked Questions page (page 2) for a list of exempted states.

2. Follow the instructions on the DMR-QA Study 40 Important Notice (inside front cover of study package) and immediately confirm receipt of this package to your State DMR-QA Coordinator via postal mail or e-mail. You must submit your response no later than **May 29, 2020**. If your permit is inactive, please contact your State DMR-QA Coordinator immediately.

3. Send copies of these instructions to each contract and in-house laboratory, if applicable. Ensure DMR-QA samples are analyzed by the same laboratories that routinely perform analyses for your Discharge Monitoring Report (DMR) requirements. Indicate which tests the laboratory will perform by checking the appropriate boxes in the "Test Required" column in the enclosed tables (pages 12-13).

4. Ensure that each laboratory uses their U.S. EPA Laboratory Code on all reported results. Make certain your laboratories understand and complete all requirements. Laboratories needing a new U.S. EPA Lab Code or wanting to confirm their existing U.S. EPA Lab Code, should contact their EPA Regional DMR-QA Coordinator listed on page 6. Submit all requests for lab codes at least one week before the DMR-QA Study 40 end date (**September 18, 2020**) or one week prior to the PT Provider's WP study due date to allow time for response.

5. Instruct your laboratory to order samples for analytes that are both in your permit and included in DMR-QA Study 40. Your in-house and contract laboratories must order PT samples from an accredited PT Provider (page 6). Ensure your laboratory orders the samples early enough to allow time to perform the required analyses and send results to the PT Provider prior to the close of DMR-QA Study 40 (**September 18, 2020**). Your laboratory should register your permit number with the PT Provider prior to **September 18, 2020**. **Note:** If your in-house or contract laboratory chooses to use a WP study to satisfy DMR-QA requirements, please inform the laboratory that all data must be reported to the PT Provider by the published WP study close date, even if it is prior to the DMR-QA deadline of **September 18, 2020**. WP studies are only valid for DMR-QA Study 40 if the WP study meets the following requirements:

   a) Samples are offered by an accredited PT Provider (page 6).
   b) The WP study does not close before **January 1, 2020,** or after **September 18, 2020**.
   c) The PT Provider shows the WP results from each of the permittee's regulated analytes on the DMR-QA reporting form.

6. Permittees are responsible for ensuring that laboratories submit data on permittee's behalf to the PT Provider by the end of DMR-QA Study 40 (**September 18, 2020**). Laboratories must send ungraded data to the same PT Provider they received samples from. By **October 16, 2020**, PT Provider-graded test results will be sent back to the laboratories. Permittees will not receive graded reports directly from PT Providers unless they are an in-house laboratory. **Note:** Permittees are not required to report ungraded data to the PT Provider on their laboratories' behalf nor should permittees send ungraded data to their State DMR-QA Coordinator.

7. Permittees must require laboratories to forward to them graded results from the PT Provider by **October 30, 2020**. Using these graded results, permittees must fill out the Chemistry/Microbiology Analyte and WET Analyte checklists (pages 12-13) for each laboratory, indicating the analyte tests performed by the laboratory and whether the result was Acceptable or Not Acceptable. Make sure the appropriate NPDES permit number and U.S. EPA Lab Code are on each checklist. If you use more than one laboratory, you must use a separate checklist for each laboratory. If a laboratory reports more than one method to you for any single analyte, you must use a separate checklist for each method reported.

8. Follow the directions on the "NPDES Permittee Data Report Form" (Form 6400-01, pages 9-11) and complete the information. You may use a "fill and print" form available at: https://www.epa.gov/compliance/discharge-monitoring-report-quality-assurance-study-program. By **November 20, 2020**, you must send a copy of the signed Form 6400-01, graded results, and completed checklists from step 7 for each of your permits to the State DMR-QA Coordinator.

   a) However, if you (the Permittee) have verified that the PT Provider's graded results have been transmitted to the State DMR-QA Coordinator, the permittee is only required to submit Form 6400-01 and the applicable checklists to the State DMR-QA Coordinator. In this situation, the laboratory should provide a list of its permittees' permit numbers associated with each required analyte to the PT Provider prior to the close of DMR-QA Study 40 or the WP study. Check with your laboratory to determine whether the PT Provider is sending the graded data directly to the State DMR-QA Coordinator.
   b) Permittees must maintain a copy of the completed NPDES Permittee Data Report Form, checklists and graded laboratory results as a record for at least three (3) years.

9. After receiving laboratory results, permittees must consult with the laboratory and investigate any discrepancies or "Not Acceptable" evaluations reported by the PT Provider. Permittees must identify, and report to the State DMR-QA Coordinator, causes and system changes to correct the discrepancies. If the laboratory requires a retest to satisfy the corrective action, the laboratory must use a WP study or a quick turnaround PT sample that closes on or before **December 31, 2020**. Laboratories must order retesting samples by **October 30, 2020** for any "Not Acceptable" results and perform the retests as soon as possible. The corrective action report should include results from any retest/verification analysis performed and must be sent to the State DMR-QA Coordinator on or before **January 15, 2021**.

Chemistry/Microbiology Laboratory Instructions

Your laboratory is designated to participate in DMR-QA Study 40 by a NPDES permittee because the permittee uses or plans to use your laboratory to perform chemistry/microbiology analyses to satisfy their NPDES permit requirements during 2020. For measurements of all pollutant parameters, especially field test parameters (pH, residual chlorine, etc.), use the same personnel and equipment as required for NPDES compliance monitoring analyses. Please ensure that your test methods/procedures follow 40 CFR part 136 regulations. Please note that for low level mercury, the concentration range is 20 - 100 ng/L (20 - 100 parts per trillion) and for low level total residual chlorine, the concentration range is 75 - 250 µg/L (75 - 250 parts per billion). If you have questions about whether you should perform the test using the normal or the low level mercury and/or low level total residual chlorine concentration, contact your State DMR-QA Coordinator.

1. Each permittee for whom you analyze or provide data in 2020 will determine which analyses you must perform by checking the appropriate boxes on the enclosed "Chemistry/Microbiology Analyte Checklist" (page 12).

2. Order DMR-QA Study 40 chemistry and microbiology samples from one of the Proficiency Test (PT) Providers (page 6). Be sure to allow yourself enough time to perform the analyses before the closing date of DMR-QA Study 40 (**September 18, 2020**). Maintain a copy of all completed order forms for your records.

Note: You may be able to utilize the results from a Water Pollution (WP) study to meet the requirements of DMR-QA, if all of the following conditions are met:

a) Samples are offered by an accredited PT Provider (page 6).
b) The WP study does not close before **January 1, 2020,** or after **September 18, 2020**.
c) The PT Provider shows the WP study results of each permittee's regulated analytes on the DMR-QA reporting form.

3. Record your ungraded analytical data and your EPA Lab Code on the Data Reporting Forms received with your samples. Be sure to follow the PT Provider's instructions and deadlines received with these samples.

4. Use of the EPA-assigned Lab Code on all reported results is required. If you need a new EPA Lab Code or need to verify your existing EPA Lab Code, please contact your EPA Regional DMR-QA Coordinator (see contact information on page 6).

5. Send the data requested by each of your permittees to the PT Provider for grading. You must send data to the same PT Provider that you received samples from. Make sure you provide the DMR-QA Study 40 or WP study results to the PT Provider by **September 18, 2020**. If you choose to use a WP study, you must report all data to the PT Provider by their published WP study close date, even if it is prior to the DMR-QA deadline of **September 18, 2020**. Notify the PT Provider that the WP study is being used to satisfy DMR-QA requirements, and send them copies of the analyte checklist(s) if you are reporting via hard copy.

6. The PT Provider will grade your analyses and send the graded results to you by **October 16, 2020**. If the PT Provider is submitting graded results sorted by permit number to the State DMR-QA Coordinator, then you should register your permittees' permit numbers associated with each required analyte with the PT Provider prior to the close of DMR-QA Study 40 or the WP study. Forward the graded results of the analytes to the permittee by **October 30, 2020,** so the permittee can fill out the analyte checklist on page 12.

7. If any graded results are "Not Acceptable," laboratories should coordinate with the permittee to determine the cause of the result and identify corrective action to prevent future occurrences. If the laboratory requires a retest to satisfy the corrective action, laboratories must use a WP study or a quick turnaround PT sample that closes on or before **December 31, 2020**. Laboratories must order retest samples for "Not Acceptable" analyte test results by **October 30, 2020**. The corrective action report and graded retest results must be forwarded to the permittee as soon as possible, for the permittee is required to submit a completed corrective action report to their state DMR-QA coordinator by **January 15, 2021**.

WET Testing Laboratory Instructions

Your laboratory is designated to participate in DMR-QA Study 40 by a NPDES permittee because the permittee uses or plans to use your laboratory to perform Whole Effluent Toxicity (WET) analyses during 2020. For all analytes, use the same personnel and equipment as required for NPDES permit compliance monitoring analyses. Labs should ensure that WET test methods/procedures follow instructions from your PT Provider and EPA's WET test manuals referenced below, which include both EPA's promulgated WET test methods at 40 CFR part 136 and EPA's recommended West Coast WET test methods.

1. The permittee(s) determine which analyses you will perform by checking the appropriate boxes on the enclosed WET Analyte checklist (page 13). Labs should ensure that the permittee has selected the test organism(s) and testing conditions that most closely resemble those required by the permit for which you are supplying test results. Use the guidelines immediately below and the table on page 13 to select the proper WET tests.

Guidelines for Choosing the Correct WET Test Organism/Conditions/Endpoint(s)

- Laboratories should only report one endpoint for each DMR-QA WET test code required.
- For laboratory performance quality assurance (QA) purposes only, the point estimation techniques that produce endpoints such as the Inhibiting Concentration 25% (IC25) are the preferred statistical methods in calculating endpoints for effluent chronic toxicity tests. However, laboratories should choose the statistical methods that allow calculation of the endpoint(s) required by the NPDES permit and are used for routine permit compliance tests. For example, if the permit specifies a No Observable Effect Concentration (NOEC) endpoint for Survival and it is reported regularly on DMRs, this endpoint may be reported for DMR-QA.
- If the permit requires WET testing with Fathead minnow *(Pimephales promelas)*, *Ceriodaphnia dubia, Daphnia magna, Daphnia pulex, Americamysis bahia (Mysidopsis bahia)*, Inland silverside (*Menidia beryllina*) or Sheepshead minnow (*Cyprinodon variegatus*), test those organisms listed in each permit using the test conditions, including temperature, defined in the WET Test Codes.
- If the permit's WET testing conditions for *Ceriodaphnia dubia* specify 48-hr acute static renewal testing, conduct this test using the static non-renewal conditions specified in WET Test Codes 19 and 20.
- If the permit's WET testing conditions for *Daphnia magna* and *Daphnia pulex* specify 48-hr acute static renewal testing, conduct this test using the static non-renewal conditions specified in WET Test Codes 32 and 38.
- If the permit's WET testing conditions require 24-, 48-, or 96-hr acute testing using any of the organisms included in Study 40, use the 48-hr acute test conditions specified in the WET Test Codes.
- If the permit requires 20°C acute testing for any organisms included in Study 40, use 25°C acute test conditions specified in the WET Test Codes.

2. Order DMR-QA toxicity samples from an accredited PT Provider (page 6). Allow yourself enough time to perform the analyses before the closing date of DMR-QA Study 40 (**September 18, 2020**). Maintain a copy of all completed order forms for your records.

3. Record your ungraded analytical data and EPA Lab Code number on the Data Report Form received with your samples. Be sure to follow the PT Provider's instructions and deadlines received with the samples. You must use the EPA-assigned Lab Code on all reported results. If you need a new EPA Lab Code or to verify your current code, contact your EPA Regional DMR-QA Coordinator (page 6).

4. Send the ungraded data requested by each of your permittees to the PT Provider for grading. You must send it to the same PT Provider that you received samples from. Make sure you provide the DMR-QA Study 40 study results by **September 18, 2020**.

5. The PT Provider will grade your results and send them to you by **October 16, 2020**. If the PT Provider is submitting graded results sorted by permit number to the State DMR-QA Coordinator, then you should register your permittees' permit numbers associated with each required analyte with the PT Provider prior to the close of DMR-QA Study 40 or the WP study. Forward the graded results of the analytes to the permittee by **October 30, 2020** so the permittee can fill out the analyte checklist on page 13.

6. If any graded results are "Not Acceptable," laboratories should coordinate with the permittee to determine the cause of the result and identify corrective action to prevent future occurrences. If the laboratory requires a retest to satisfy the corrective action, laboratories must use a WP study or a quick turnaround PT sample that closes on or before **December 31, 2020**. Laboratories must order retest samples for "Not Acceptable" analyte test results by **October 30, 2020**. The corrective action report and graded retest results must be forwarded to the permittee as soon as possible, for the permittee is required to submit a completed corrective action report to their state DMR-QA coordinator by **January 15, 2021**.

Reference Manuals: (see http://www.epa.gov/cwa-methods/whole-effluent-toxicity-methods)

1. *Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms, Fifth Edition*, October 2002. U.S. Environmental Protection Agency, Office of Water, Washington, DC, EPA 821-R-02-012.
2. *Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, Fourth Edition*, October 2002. U.S. Environmental Protection Agency, Office of Water, Washington, DC, EPA 821-R-02-013.
3. *Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms, Third Edition*, October 2002. U.S. Environmental Protection Agency, Office of Water, Washington, DC, EPA 821-R-02-014.
4. *Method Guidance and Recommendations for Whole Effluent Toxicity (WET) Testing (40 CFR Part 136).* July, 2000. U.S. Environmental Protection Agency, Office of Water, Washington, DC, EPA-821-B -00-004.
5. *Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms, 1st Ed.*, 1995, U.S. Environmental Protection Agency, Office of Research and Development, Cincinnati, OH, EPA/600/R-95/136. http://cfpub.epa.gov/si/si_public_record_report.cfm?dirEntryId=46584.

Accredited Proficiency Testing Providers

The following Proficiency Test (PT) Providers are accredited by A2LA or ANAB. A2LA and ANAB have each been designated a Proficiency Testing Oversight Body (PTOB)/Proficiency Testing Provider Accreditor (PTPA) by The NELAC Institute (TNI). Find the following PT Providers on the internet at: http://www.nelac-institute.org/content/NEPTP/ptproviders.php.

NELAC-Accredited Provider	Chem	Micro	WET
Absolute Standards, Inc., Hamden, CT Mr. Stephen Arpie (203) 281-2917 or (800) 368-1131 stephen@absolutestandards.com www.absolutestandards.com	X	X	
Advanced Analytical Solutions, LLC, Parkersburg, WV Fred Anderson (304) 485-6325 Fred@advancedqa.com www.advancedqa.com	X	X	
Environmental Resource Associates (ERA), Golden, CO (800) 372-0122 interlabgroup@eraqc.com; info@eraqc.com www.eraqc.com	X	X	X
MilliporeSigma, Laramie, WY (800) 576-5690 PTService@milliporesigma.com www.sigmaaldrich.com/pt	X	X	X
New York State Department of Health Wadsworth Center, Albany, NY Dr. Patrick Parsons (518) 474-7161 dehspt@health.ny.gov www.wadsworth.org/programs/ehs/pt	X	X	
NSI Lab Solutions, Raleigh, NC Mr. Mark Hammersla (800) 234-7837 mark.hammersla@nsilabsolutions.com www.nsilabsolutions.com	X	X	
Phenova Inc., Golden, CO (866) 942-2978 info@phenova.com www.phenova.com	X	X	X

EPA Regional DMR-QA Coordinators

EPA Region 1
(CT, MA, ME, NH, RI, VT)
Denny Dart
U.S. EPA Region 1
ECAD/ECAB/WCS
5 Post Office Square (Mail Code 04-4)
Boston, MA 02109-3912
(617) 918-1850
Dart.Denny@epa.gov

EPA Region 2 (NJ, NY, PR, VI)
Lampros E. Bourodimos, PhD, PE
U.S. EPA Region II
LSASD/MAB/MOS
2890 Woodbridge Ave (MS 220)
Edison, NJ 08837
(732) 321-6704
Bourodimos.Lampros@epa.gov

EPA Region 3 (DC, DE, MD, PA, VA, WV)
Peter Gold
U.S. EPA Region III
ECAD/WB/NPDES
1650 Arch St (3ED32)
Philadelphia, PA 19103
(215) 814-5236
Gold.Peter@epa.gov

EPA Region 4
(AL, FL, GA, KY, MS, NC, SC, TN)
Jeffrey Wilmoth
U.S. EPA Region IV
LSASD/QAPSB/QAS
980 College Station Rd
Athens, GA 30605-2720
(706) 355-8623
Wilmoth.Jeffrey@epa.gov

EPA Region 5 (IL, IN, MI, MN, OH, WI)
Kenneth Gunter
U.S. EPA Region V
ECAD/WECAB/WS1
77 W. Jackson Blvd (ECW-15J)
Chicago, IL 60604
(312) 353-9076
Gunter.Kenneth@epa.gov

EPA Region 6 (AR, LA, NM, OK, TX)
Magda Dallemagne
U.S. EPA Region VI
ECAD/WTREB/WRS
1201 Elm St, Suite 500 (ECDWR)
Dallas, TX 75270
(214) 665-7396
Dallemagne.Magdeleine@epa.gov

EPA Region 7 (IA, KS, MO, NE)
Bryant C. Harris
U.S. EPA Region VII
ECAD/WB
11201 Renner Blvd
Lenexa, KS 66219
(913) 551-7770
Harris.Bryant@epa.gov

EPA Region 8 (CO, MT, ND, SD, UT, WY)
Michael Boeglin
U.S. EPA Region VIII
ECAD/WEB/NWES
1595 Wynkoop St (8ENF-WNW)
Denver, CO 80202
(303) 312-6250
Boeglin.Michael@epa.gov

EPA Region 9
(AS, AZ, CA, GU, HI, MP, NN, NV)
Liliana Christophe
U.S. EPA Region IX
ECAD/AWAB/DSS
75 Hawthorne St (ENF-2-3)
San Francisco, CA 94105
(415) 972-3502
Christophe.Liliana@epa.gov

EPA Region 10 (AK, ID, OR, WA)
Robert Grandinetti
U.S. EPA Region X
ECAD/WEFB/SWES
825 Jadwin Ave, Suite 210
Richland, WA 99352
(509) 376-3748
Grandinetti.Robert@epa.gov

Trying to find your State DMR-QA Coordinator? Turn to pages 7 and 8 →

State DMR-QA Coordinators

Alabama
Sharon Moses
Alabama DEM
1350 Coliseum Boulevard
Montgomery, AL 36110
(334) 394-4355
smoses@adem.alabama.gov

Alaska
John Clark
Alaska DEC - Division of Water
555 Cordova St
Anchorage, AK 99501-2617
(907) 269-3066
john.clark@alaska.gov

American Samoa
Liliana Christophe
U.S. EPA Region IX
ECAD/AWAB/DSS
75 Hawthorne St (ENF-2-3)
San Francisco, CA 94105
(415) 972-3502
christophe.liliana@epa.gov

Arizona
Michael Tenczar
AZPDES Individual Permits Unit
Arizona Dept of Environmental Quality
1110 W. Washington St
Phoenix, AZ 85007
(602) 771-4623
Tenczar.Mike@azdeq.gov

Arkansas*
Penny Semberski
Arkansas Department of
Energy and Environment
5301 Northshore Drive
North Little Rock, AR 72118
(501) 682-0941
qaofficer@adeq.state.ar.us

California*
Melissa Morris
Office of Information Mgmt & Analysis
State Water Resources Control Board
1001 I Street, 16-39D-
Sacramento, CA 95814
P.O. Box 100- Sacramento, CA 95812
(916) 341-5583
QualityAssurance@waterboards.ca.gov

Colorado
Aly Ulibarri
Colorado Dept. of Public Health and
Environment
Water Quality Control Division-CWE-B2
4300 S Cherry Creek Drive South
Denver, CO 80246
303-692-3163
aly.ulibarri@state.co.us

Connecticut
Donald Gonyea
Connecticut DEEP
Bureau of Materials Management and
Compliance Assurance
79 Elm Street
Hartford, CT 06106
(860) 424-3827
donald.gonyea@ct.gov

Delaware
Nicole Smith
Delaware DNREC - Division of Water
Surface Water Discharges Section
89 Kings Hwy - R and R Building
Dover, DE 19901
(302) 739-9946
nicole.smith@state.de.us

District of Columbia
Joshua Rodriguez
District of Columbia Department of
Environment - Water Quality Division
1200 First Street NE, 5th Floor
Washington, DC 20002
(202) 535-2226
joshua.rodriguez@dc.gov

Florida
William Joyner
U.S. EPA Region IV, ECAD/WEB/DWWS
61 Forsyth St SW, MC-9T25
Atlanta, GA 30303-8960
(404) 562-8975
Joyner.William@epa.gov

Georgia
Marzieh Shahbazaz
Georgia DNR
Environmental Protection Division
Watershed Protection Branch
2 MLK Jr. Dr., S.W., Suite 1152 East
Atlanta, GA 30334
(404) 463-4933
marzieh.shahbazaz@dnr.state.ga.us

Guam
Maricar Quezon
Water Pollution Control Program
Guam EPA
P.O. Box 22439
Barrigada, GU 96921
(671) 475-1601
maricar.quezon@epa.guam.gov

Hawaii
Scott Miyashiro
Hawaii Department of Health
Clean Water Branch
919 Ala Moana Boulevard, Room 301
Honolulu, HI 96814-4920
(808) 586-4309
scott.miyashiro@doh.hawaii.gov

Idaho
Robert Grandinetti
U.S. EPA Region X
ECAD/WEFB/SWES
825 Jadwin Avenue, Suite 210
Richland, WA 99352
(509) 376-3748
grandinetti.robert@epa.gov

Illinois
Michelle Rousey
Illinois EPA
Bureau of Water
1021 North Grand Avenue East
P.O. Box 19276 (Mail Code 15)
Springfield, IL 62794-9276
(217) 785-3944
michelle.rousey@illinois.gov

Indiana
Becky Ruark
Indiana DEM/Office of Water Quality
100 North Senate Avenue
MC 65-42, IGCN N1255
Indianapolis, IN 46204-2251
(317) 691-1909
DMRQA@idem.in.gov

Iowa
Bryant C. Harris
U.S. EPA Region VII
ECAD/WB
11201 Renner Blvd
Lenexa, KS 66219
(913) 551-7770
Harris.Bryant@epa.gov

Kansas*
Paul Harrison
Kansas Dept. of Health & Environment
Kansas Health and Environmental
Laboratories
6810 SE Dwight Street
Topeka, KS 66620
(785) 296-6198
paul.harrison@ks.gov

Kentucky*
Patrick J. Garrity
Laboratory Certification Officer
Kentucky DEP - Division of Water
300 Sower Blvd, 3rd Floor
Frankfort, KY 40601
(502) 782-6954
patrick.garrity@ky.gov

Louisiana*
Sandy Coon
Louisiana DEQ
Office of Environmental Compliance
P.O. Box 4312
Baton Rouge, LA 70821-4312
(225) 219-3614
sandy.coon@la.gov

Maine*
Brett Goodrich
Maine Dept. of Environmental Protection
Division of Water Quality Management
17 State House Station
Augusta, ME 04333
(207) 287-9034
brett.a.goodrich@maine.gov

Maryland
Ron Wicks
Maryland Dept. of the Environment
Water Management Administration
Compliance Program
1800 Washington Blvd, Suite 420
Baltimore, MD 21230
(410) 537-3607
ron.wicks@maryland.gov

Massachusetts
Ping Yee
Massachusetts DEP/Boston Office
1 Winter Street, 5th Floor
Boston, MA 02108
(617) 292-5769
ping.yee@state.ma.us

Michigan
Chris Veldkamp
Michigan EGLE
Water Resources Division
State of Michigan Building
350 Ottawa Ave NW, Unit 10
Grand Rapids, MI 49503
(616) 401-1556
veldkampc@michigan.gov

Minnesota
Sarah Yost
Minnesota Pollution Control Agency
Environmental Outcomes Division
520 Lafayette Road
St. Paul, MN 55155
(651) 757-2810
DMRQA.pca@state.mn.us

Mississippi
Erica Scarbrough
Mississippi DEQ
Office of Pollution Control
1542 Old Whitfield Road
Pearl, MS 39208
(601) 961-5778
escarbrough@mdeq.ms.gov

Missouri
Bryant C. Harris
U.S. EPA Region VII
ECAD/WB
11201 Renner Blvd
Lenexa, KS 66219
(913) 551-7770
Harris.Bryant@epa.gov

Montana
Gina Self
Montana DEQ
Water Protection Bureau
P.O. Box 200901
Helena, MT 59620-0901
(406) 444-5388
GSelf@mt.gov

Nebraska
Reuel Anderson
Nebraska DEQ
Water Quality Division
P.O. Box 98922
Lincoln, NE 68509
(402) 471-1367
reuel.anderson@nebraska.gov

Nevada*
Donald E. LaFara
Bureau of Safe Drinking Water
Nevada Division of Environmental
Protection
901 S. Stewart Street, Suite 4001
Carson City, NV 89701
(775) 687-9491
dlafara@ndep.nv.gov

(List continues on next page →)

New Hampshire*
Stephanie Larson
New Hampshire DES - Water Division
P.O. Box 95
Concord, NH 03302-0095
(603) 271-1493
stephanie.larson@des.nh.gov

New Jersey*
Department of Environmental Protection
Office of Quality Assurance
Laboratory Certification Programs
P.O. Box 402, Mail Code 401-02D
Trenton, NJ 08625-0402
(609) 777-1749

New Mexico
Barbara Cooney
New Mexico Environment Department
Surface Water Quality Bureau
Harold Runnels Bldg, N 2050
1190 South St. Francis Drive (8750S)
P.O. Box 5469
Santa Fe, NM 87505-5469
(505) 827-0212
barbara.cooney@state.nm.us

New York
Lampros E. Bourodimos, PhD, PE
U.S. EPA Region II, LSASD/MAB/MOS
2890 Woodbridge Ave (MS 220)
Edison, NJ 08837
(732) 321-6704
Bourodimos.Lampros@epa.gov

North Carolina*
Dana Satterwhite
North Carolina DEQ
Water Sciences Section
Laboratory Certification Branch
1623 Mail Service Center
Raleigh, NC 27699-1623
(919) 733-3908 ext. 202
dana.satterwhite@ncdenr.gov

North Dakota
Marty Haroldson
North Dakota DEQ
Division of Water Quality
Permits Program
918 East Divide Ave., 4th Floor
Bismarck, ND 58501
(701) 328-5234
mharolds@nd.gov

Northern Mariana Islands
Liliana Christophe
U.S. EPA Region IX
ECAD/AWAB/DSS
75 Hawthorne St (ENF-2-3)
San Francisco, CA 94105
(415) 972-3502
christophe.liliana@epa.gov

Ohio
Steve Roberts
Ohio EPA
8955 East Main Street
Reynoldsburg, OH 43068
(614) 644-4225
steven.roberts@epa.ohio.gov

Oklahoma*
Lynzie Chan
Oklahoma DEQ
P.O. Box 1677
Oklahoma City, OK 73101
(405) 702-8243
Lynzie.Chan@deq.ok.gov

Oregon
Aliana Britson, PhD
Oregon DEQ
Laboratory & Environmental Assurance Division
7202 NE Evergreen Pkwy, Suite 150
Hillsboro, OR 97124
(503) 693-5773
Aliana.Britson@state.or.us

Pennsylvania*
Department of Environmental Protection
Bureau of Laboratories
Attn: Laboratory Accreditation Program
P.O. Box 1467
Harrisburg, PA 17105-1467
epLabAccredit@pa.gov

Puerto Rico
Lampros E. Bourodimos, PhD, PE
U.S. EPA Region II, LSASD/MAB/MOS
2890 Woodbridge Ave (MS 220)
Edison, NJ 08837
(732) 321-6704
Bourodimos.Lampros@epa.gov

Rhode Island
Matthew Puglia, PE
Rhode Island DEM
Office of Water Resources
235 Promenade Street
Providence, RI 02908
(401) 222-4700 x7131
matt.puglia@dem.ri.gov

South Carolina*
Paul Miller
Office of Environmental Lab Certification
SC DHEC Bureau of Environmental Services
2600 Bull St
Columbia, SC 29201
(803) 896-0971
millerpm@dhec.sc.gov

South Dakota
Tim Flor
South Dakota Dept of Environment & Natural Resources
Surface Water Quality Program
523 East Capital
Pierre, SD 57501
(605) 773-3351
tim.flor@state.sd.us

Tennessee
Barbara Loudermilk
Division of Water Resources
Compliance & Enforcement Unit
William R. Snodgrass TN Tower
312 Rosa Parks Blvd, 11th Floor
Nashville, TN 37243
(615) 686-9755 or (615) 313-5742
Barbara.Loudermilk@tn.gov

Texas
Penny Sterling
Texas Commission on Environmental Quality
P.O. Box 13087, MC 165
Austin, TX 78711
(512) 239-1617
penny.sterling@tceq.texas.gov

Utah*
Michael Boeglin
U.S. EPA Region VIII
ECAD/WEB/NWES
1595 Wynkoop St (8ENF-WNW)
Denver, CO 80202
(303) 312-6250
Boeglin.Michael@epa.gov

Vermont
Amy Polaczyk
Vermont Dept. of Environmental Conservation
1 National Life Dr. - Bldg Main 2
Montpelier, VT 05620-3522
(802) 490-6185
Amy.Polaczyk@vermont.gov

Virgin Islands
Lampros E. Bourodimos, PhD, PE
U.S. EPA Region II, LSASD/MAB/MOS
2890 Woodbridge Ave (MS 220)
Edison, NJ 08837
(732) 321-6704
Bourodimos.Lampros@epa.gov

Virginia*
DCLS Laboratory Certification Office
600 N. 5th Street
Richmond, VA 23219
(804) 648-4480
Lab_Cert@dgs.virginia.gov

Washington
Rebecca Wood
Washington State Dept. of Ecology
Laboratory Accreditation Unit
P.O. Box 488
Manchester, WA 98353
(360) 871-8811
rewo461@ecy.wa.gov

West Virginia*
Linda B. Keller
West Virginia DEP
601 57th Street, S.E.
Charleston, WV 26304
(304) 926-0495
Linda.B.Keller@wv.gov

Wisconsin*
Wisconsin DNR
Laboratory Certification Program - SS/7
PO Box 7921
101 S Webster St.
Madison, WI 53707
(608) 264-6006
Tom.Trainor@wisconsin.gov

Wyoming
Steve E. Vien, PhD
Wyoming DEQ
Water Quality Division
208 South College Drive
Cheyenne, WY 82002
(307) 777-7654
steve.vien@wyo.gov

*Some or all permittees in these states may not be required to participate in DMR-QA due to a full or partial waiver agreement with EPA.

Your coordinator may change.

Please visit https://www.epa.gov/compliance/state-discharge-monitoring-report-quality-assurance-dmr-qa-coordinators and https://www.epa.gov/compliance/regional-discharge-monitoring-report-quality-assurance-dmr-qa-coordinators for the latest list of coordinators.

For additional questions, contact US EPA Headquarters:

Greg Savitske
USEPA/OECA/OC/MAMPD
1200 Pennsylvania Ave NW
Mail Code 2227A
Washington, DC 20460
(202) 564-2601
dmrqa@epa.gov

United States Environmental Protection Agency

Office of Enforcement and Compliance Assurance
1200 Pennsylvania Ave NW, Mail Code 2227A
Washington, DC 20460

DMR-QA Study 40

(This data is collected under the authority of Section 308 of the Clean Water Act.)

Paperwork Reduction Act Notice

The public reporting and recordkeeping burden for this collection of information is estimated to average 6.6 hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, DC 20460. Include the OMB control number (2080-0021), ICR number (0234.13), and EPA form number (6400-01) in any correspondence. Do not send the completed form to this address.

Instructions for the NPDES Permittee Data Report Form

1. This is a two-page form.

2. Enter your NPDES permit number at the top of pages 10 and 11.

3. You must fill in the 2-digit **permit extension** field at the top of page 10 if there is an extension for your permit code. If you have one, the extension will appear next to your permit code in the address box on page 11; for example: "NPDES Permittee AK1234567-**01**." If there is no extension, leave this field blank.

4. Identify each of your laboratories on page 11, including their U.S. EPA Lab code which is a unique identifier number assigned by EPA. (Refer to page 3, item 4 in the Study 40 package) (NOTE: The U.S. EPA lab code of the laboratory that produced the data must also appear at the top of the Chemistry/ Microbiology and WET analyte checklists on pages 12-13.)

5. Make copies of pages 10 and 11. Attach a copy of these pages to the Chemistry/Microbiology and WET analyte checklists. Separate copies of each checklist must be filled out for each laboratory you used. Also, if a laboratory reports more than one method to you for any single analyte, you must use a separate checklist for each method reported. These checklists must indicate the graded results for the analytes tested by the laboratory that are in your permit and required for DMR-QA (Acceptable or Not Acceptable). For Study 40, it is optional but encouraged to write in the approved test method used for DMR-QA Chemistry/Microbiology analytes. If you use a state-certified laboratory to generate your NPDES data in a state that has been granted a partial exemption from the DMR-QA study by the EPA Region, check the "Analyte determined by state-certified laboratory" box(es) on the checklists (pages 12 and 13) for all analytes in your permit analyzed by a certified laboratory.

6. Sign and date the certification statement on page 10 and the applicable checklists on pages 12 and 13.

7. Make copies of the NPDES Permittee Data Report form and checklists for your records.

8. Submit the signed copy of the Permittee Data Packages by e-mail or postal mail to the State DMR-QA Coordinator **no later than November 20, 2020**.

OMB Control No. 2080-0021 Approval expires 5/31/2023

United States Environmental Protection Agency

Office of Enforcement and Compliance Assurance
1200 Pennsylvania Ave NW, Mail Code 2227A
Washington, DC 20460

DMR-QA Study 40

(This data is collected under the authority of Section 308 of the Clean Water Act.)

NPDES Permittee Data Report Form

Attention: Follow the instructions on the previous page to complete this form and submit data for evaluation.

Due November 20, 2020

State | NPDES Permit Number | Permit Extension

Permittee Name

Current Permittee Mailing Address

City | State | Zip Code

Phone Number | Fax Number | E-mail

Optional: If WP Study was used, list PT Provider name(s):

Optional: WP Study Number(s)

For DMR-QA Study 40, conducted in 2020, the Permittee ensured that their laboratory(ies) performing the required analyses:

Received PT Samples
Yes ☐ No ☐

Submitted Complete and Accurate Data by September 18, 2020
Yes ☐ No ☐

Received a Graded Report by October 16, 2020
Yes ☐ No ☐

Certification by Permit Holder or Authorized Representative

(as per 40 CFR Section 122.22)

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. Each reported value was produced from a single analytical run using the analytical system that routinely performs these analyses to produce compliance monitoring data required under our National Pollutant Discharge Elimination System (NPDES) permit. Neither I nor any of my subordinates compared our results with results from independent analyses conducted by us or any other laboratory before we reported our results to the U.S.EPA. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of Certifying Official | Title

Signature | Date

Address, phone number and e-mail of certifying official are required if different from above.

Address | Phone Number

City | State | Zip Code | E-mail

United States Environmental Protection Agency

Office of Enforcement and Compliance Assurance
1200 Pennsylvania Ave NW, Mail Code 2227A
Washington, DC 20460

DMR-QA Study 40

(This data is collected under the authority of Section 308 of the Clean Water Act.)

Permittee Name	State	NPDES Permit No.	Permit Extension

Identification of all CHEM, MICRO and WET laboratories who performed analyses for this permit

Name of Laboratory	Address of Laboratory	U.S. EPA Lab Code	Lab Analysis Check box(es) that apply			Lab Type*	State-certified Lab**
			Chem	Micro	WET		
			☐	☐	☐		☐
			☐	☐	☐		☐
			☐	☐	☐		☐
			☐	☐	☐		☐
			☐	☐	☐		☐
			☐	☐	☐		☐

* Lab Types: C = Commercial F = Federal G = Local Government I = Industrial O = Other S = State
** See Footnote on page 2 (Frequently Asked Questions) for the current list of states with lab accreditation programs

If you need additional space, please make a copy of this page for additional laboratories.

Permittee Name _____ State _____ NPDES Permit No. _____ EPA Lab Code _____

Chemistry/Microbiology Analyte Checklist

DMR-QA Study 40

Analyte Test	Test Required	Method Number Used (optional)	Laboratory's Graded Result		Analyte determined by state-certified lab*
			Acceptable	Not Acceptable (Corrective Action Required)	
Microbiology					
E. coli, MF or MPN	☐		☐	☐	☐
Fecal Coliform, MF or MPN	☐		☐	☐	☐
Total Coliform, MF or MPN	☐		☐	☐	☐
Trace Metals					
Aluminum	☐		☐	☐	☐
Antimony	☐		☐	☐	☐
Arsenic	☐		☐	☐	☐
Barium	☐		☐	☐	☐
Beryllium	☐		☐	☐	☐
Cadmium	☐		☐	☐	☐
Chromium, total	☐		☐	☐	☐
Chromium, hexavalent	☐		☐	☐	☐
Cobalt	☐		☐	☐	☐
Copper	☐		☐	☐	☐
Iron	☐		☐	☐	☐
Lead	☐		☐	☐	☐
Manganese	☐		☐	☐	☐
Mercury	☐		☐	☐	☐
Mercury (Low Level)	☐		☐	☐	☐
Molybdenum	☐		☐	☐	☐
Nickel	☐		☐	☐	☐
Selenium	☐		☐	☐	☐
Silver	☐		☐	☐	☐
Thallium	☐		☐	☐	☐
Vanadium	☐		☐	☐	☐
Zinc	☐		☐	☐	☐
Demands					
5-day BOD	☐		☐	☐	☐
5-day Carbonaceous BOD	☐		☐	☐	☐
COD	☐		☐	☐	☐
TOC	☐		☐	☐	☐
Minerals					
Alkalinity, total ($CaCO_3$)	☐		☐	☐	☐
Chloride	☐		☐	☐	☐
Fluoride	☐		☐	☐	☐
Hardness, total ($CaCO_3$)	☐		☐	☐	☐
Specific conductance (25°C)	☐		☐	☐	☐
Sulfate	☐		☐	☐	☐
Total Dissolved Solids (180°C)	☐		☐	☐	☐
Nutrients					
Ammonia as N	☐		☐	☐	☐
Nitrate as N	☐		☐	☐	☐
Nitrite as N	☐		☐	☐	☐
Orthophosphate as P	☐		☐	☐	☐
Total Kjeldahl-Nitrogen as N	☐		☐	☐	☐
Total Phosphorus as P	☐		☐	☐	☐
Misc. Analytes					
Non-Filterable Residue (TSS)	☐		☐	☐	☐
Oil and Grease	☐		☐	☐	☐
pH	☐		☐	☐	☐
Total Cyanide	☐		☐	☐	☐
Total Phenolics (4-AAP)	☐		☐	☐	☐
Total Residual Chlorine	☐		☐	☐	☐
Total Residual Chlorine (Low Level)	☐		☐	☐	☐
Settleable Solids	☐		☐	☐	☐
Turbidity	☐		☐	☐	☐

Name _____ Signature _____ Date _____

* See Footnote on page 2.

Complete a separate checklist for EACH lab.

Permittee Name _____ State _____ NPDES Permit No. _____ EPA Lab Code _____

WET Analyte Checklist

DMR-QA Study 40

Analyte Number	Organism / Conditions	Endpoint	Test Required	Laboratory's Graded Result		Analyte determined by state-certified lab*
				Acceptable	Not Acceptable (Corrective Action Required)	
Test Code 13 (refer to EPA Method 2000.0)						
754	Fathead minnow (*Pimephales promelas*) - MHSF 25°C	LC50	☐	☐	☐	☐
Test Code 14 (refer to EPA Method 2000.0)						
755	Fathead minnow (*Pimephales promelas*) - 20% DMW	LC50	☐	☐	☐	☐
Test Code 15 (refer to EPA Method 1000.0)						
756	Fathead minnow (*Pimephales promelas*) - MHSF	NOEC SURVIVAL	☐	☐	☐	☐
808	Fathead minnow (*Pimephales promelas*) - MHSF	**IC25** (ON) GROWTH**	☐	☐	☐	☐
810	Fathead minnow (*Pimephales promelas*) - MHSF	NOEC (ON) GROWTH	☐	☐	☐	☐
Test Code 16 (refer to EPA Method 1000.0)						
759	Fathead minnow (*Pimephales promelas*) - 20% DMW	NOEC SURVIVAL	☐	☐	☐	☐
812	Fathead minnow (*Pimephales promelas*) - 20% DMW	**IC25** (ON) GROWTH**	☐	☐	☐	☐
814	Fathead minnow (*Pimephales promelas*) - 20% DMW	NOEC (ON) GROWTH	☐	☐	☐	☐
Test Code 19 (refer to EPA Method 2002.0)						
764	*Ceriodaphnia dubia* - MHSF 25°C	LC50	☐	☐	☐	☐
Test Code 20 (refer to EPA Method 2002.0)						
765	*Ceriodaphnia dubia* - 20% DMW 25°C	LC50	☐	☐	☐	☐
Test Code 21 (refer to EPA Method 1002.0)						
766	*Ceriodaphnia dubia* - MHSF	NOEC SURVIVAL	☐	☐	☐	☐
767	*Ceriodaphnia dubia* - MHSF	**IC25** REPRODUCTION**	☐	☐	☐	☐
768	*Ceriodaphnia dubia* - MHSF	NOEC REPRODUCTION	☐	☐	☐	☐
Test Code 22 (refer to EPA Method 1002.0)						
769	*Ceriodaphnia dubia* - 20% DMW	NOEC SURVIVAL	☐	☐	☐	☐
770	*Ceriodaphnia dubia* - 20% DMW	**IC25** REPRODUCTION**	☐	☐	☐	☐
771	*Ceriodaphnia dubia* - 20% DMW	NOEC REPRODUCTION	☐	☐	☐	☐
Test Code 32 (refer to EPA Method 2021.0)						
788	*Daphnia magna* - MHSF 25°C	LC50	☐	☐	☐	☐
Test Code 38 (refer to EPA Method 2021.0)						
794	*Daphnia pulex* - MHSF 25°C	LC50	☐	☐	☐	☐
Test Code 42 (refer to EPA Method 2007.0)						
798	Mysid (*Americamysis bahia, Mysidopsis bahia*) 25°C	LC50	☐	☐	☐	☐
Test Code 43 (refer to EPA Method 1007.0)						
799	Mysid (*Americamysis bahia, Mysidopsis bahia*)	NOEC SURVIVAL	☐	☐	☐	☐
816	Mysid (*Americamysis bahia, Mysidopsis bahia*)	**IC25** (ON) GROWTH**	☐	☐	☐	☐
818	Mysid (*Americamysis bahia, Mysidopsis bahia*)	NOEC (ON) GROWTH	☐	☐	☐	☐
Test Code 44 (refer to EPA Method 2006.0)						
803	Inland silverside (*Menidia berylina*) 25°C	LC50	☐	☐	☐	☐
Test Code 45 (refer to EPA Method 1006.0)						
824	Inland silverside (*Menidia berylina*)	NOEC SURVIVAL	☐	☐	☐	☐
825	Inland silverside (*Menidia berylina*)	**IC25** (ON) GROWTH**	☐	☐	☐	☐
826	Inland silverside (*Menidia berylina*)	NOEC (ON) GROWTH	☐	☐	☐	☐
Test Code 46 (refer to EPA Method 2004.0)						
804	Sheepshead minnow (*Cyprinodon variegatus*) 25°C	LC50	☐	☐	☐	☐
Test Code 47 (refer to EPA Method 1004.0)						
805	Sheepshead minnow (*Cyprinodon variegatus*)	NOEC SURVIVAL	☐	☐	☐	☐
820	Sheepshead minnow (*Cyprinodon variegatus*)	**IC25** (ON) GROWTH**	☐	☐	☐	☐
822	Sheepshead minnow (*Cyprinodon variegatus*)	NOEC (ON) GROWTH	☐	☐	☐	☐

Name _____ Signature _____ Date _____

*See Footnote on page 2.

**Preferred endpoint for DMR-QA performance test reporting.

Complete a separate checklist for EACH lab.