DIVISION OF
ENVIRONMENTAL QUALITY

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Application Form PPS

Priority Pollutant Scan Information For Major Municipal Facilities Only

ATTENTION

"Clean" Sampling Techniques

Water quality (WQ) standards (Based on aquatic toxicity and human health criteria) for many of the heavy metals are "at" analytical methods detection levels (MDL).

It is recognized that **unclean** sampling and lab techniques can and do **cause** contamination sometimes causing measurements to be "seen" as **violations** of the WQ standards. Therefore, the permittee must recognize the **importance** of **eliminating** contamination.

For personnel responsible for collecting samples in answer to effluent monitoring requirements, the Division recommends following sample collection and handling in accordance with EPA's **Method 1669: Sampling Ambient Water for Determination of Trace Metals at EPA Water Quality Criteria Levels** as closely as possible and as economically feasible. A copy of Method 1669 is available online at: https://www.epa.gov/sites/default/files/2015-10/documents/method_1669_1996.pdf

Please convey to your contract testing laboratory the extreme importance of proper sampling techniques associated with analytical testing for heavy metals. Some of the techniques may be considered too expensive to justify implementation but it could be in the best interest of your facility to **submit the PPS Form by using common sense "Clean" Sampling Techniques.**

GENERAL INSTRUCTIONS

1. **Generation of a form similar to the PPS form is prohibited without express written permission of DEQ, Discharge Permits Section, Office of Water Quality.**

2. All major facilities and any facility that believes there are priority pollutant(s) present in their discharge, must submit the Form PPS.

3. Publicly Owned Treatment Works are required to monitor for:
   a. metals, cyanide, and total phenolic compounds;
   b. volatile organic compounds;
   c. acid-extractable compounds; and
   d. base/neutral compounds.

4. Publicly Owned Treatment Works are required to report a minimum of three samples for each pollutant monitored. Additional laboratory analysis table sheets must be attached to this form if more than three samples are collected for any parameter, unless the additional samples have already been reported to DEQ on other forms such as DMRs or pretreatment annual reports.

5. A facility is only required to monitor for 2,3,7,8-Tetrachloro-dibenzo-p-dioxin (TCDD) if the applicant knows or has reason to believe that TCDD is or may be present in an effluent.

6. Testing requirements for Hexavalent Chromium (Chromium 6+, dissolved) may be waived if Total Recoverable Chromium is not detected in the effluent.

7. The threshold level (i.e., Method Detection Level (MDL), Minimum Quantification Limit (MQL), Minimum Level (ML), Reporting Limit (RL), or other designated method endpoints) **must be as low as Minimum Quantification Levels** (**MQL**) listed in the tables. MQLs are based on EPA Methods, EPA Region 6 guidance dated April 10, 2006, and EPA Region 6 guidance dated February 8, 2008. Where no other information is available, MQL is assumed to be equal to 3.3 × MDL.

8. All the units must be expressed in µg/l (Micrograms per liter).

9. **All the results less than Method Detection Level Achieved may be reported as ND (Not Detected).**

10. The data requested for the priority pollutant scan in the enclosures shall be submitted with copies of the laboratory results, chain of custody sheets, and threshold level (i.e. MDL, MQL, ML, RL, etc.). Certification that QA/QC procedures were implemented must be submitted with the requested information.

11. All analyses must be performed at the minimum level of sensitivity. The analyses must demonstrate that an acceptable calibration point as low as MQL was used. Test procedures must conform to approved EPA methodology listed in 40 C.F.R. Part 136. For Chlorpyrifos, EPA Method 608.3 may be used in addition to the approved methods listed in 40 C.F.R. Part 136.

ARKANSAS DIVISION OF ENVIRONMENTAL QUALITY
PPS REQUIREMENTS

1. Name of facility:

   _____

2. Name, address and telephone number of laboratory:

   _____

   _____

3. Is the lab certified by the State of Arkansas? Yes ____ No ___
4. What are the certification dates?

   Issued date _____ Expiration date _____

5. Is the laboratory certified for all the parameters?

   Yes ____ No ____ (Explain)

   _____

   _____

6. Sample location (Outfall No.):

   _____

7. Samples collected by:

   Name _____

   Title _____

   Telephone _____

8. I certify under penalty of law that this document and all attachments were prepared under my direction of 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 submitted is, to the best of my knowledge and belief, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

   _____

   Printed Name of Responsible Official Title

   _____

   Responsible Official Signature Date signed

Metals, Cyanide, and Total Phenolic Compounds	Laboratory Analysis					Maximum Allowable MQL (µg/l)
	Results (µg/l)	Results (µg/l)	Results (µg/l)	Approved EPA Method used	Detection Level Achieved (µg/l)	
Antimony, Total Recoverable						60
Arsenic, Total Recoverable						0.5
Beryllium, Total Recoverable						0.5
Cadmium, Total Recoverable						0.5
Chromium, Total Recoverable						10
Chromium (6+), Dissolved						10
Copper, Total Recoverable						0.5
Lead, Total Recoverable						0.5
Mercury, Total Recoverable						0.005
Nickel, Total Recoverable						0.5
Selenium, Total Recoverable						5
Silver, Total Recoverable						0.5
Thallium, Total Recoverable						0.5
Zinc, Total Recoverable						20
Cyanide, Total Recoverable						10
Phenols, Total Recoverable (Total Phenolic Compounds)						5

Volatile Organic Compounds	Laboratory Analysis					Maximum Allowable MQL (µg/l)
	Results (µg/l)	Results (µg/l)	Results (µg/l)	Approved EPA Method used	Detection Level Achieved (µg/l)	
Acrolein						50
Acrylonitrile						20
Benzene						10
Bromoform						10
Carbon Tetrachloride						2
Chlorobenzene						10
Chlorodibromomethane						10
Chloroethane						50
2-Chloroethyl vinyl ether						10
Chloroform						10
Dichlorobromomethane						10
1,1-Dichloroethane						10
1,2-Dichloroethane						10
1,1-Dichloroethylene						10
1,2-Dichloropropane						10
1,3-Dichloropropylene						10
Ethylbenzene						10
Methyl Bromide [Bromomethane]						50
Methyl Chloride [Chloromethane]						50
Methylene Chloride						20
1,1,2,2-Tetrachloroethane						10
Tetrachloroethylene						10
Toluene						10
1,2-trans-Dichloroethylene						10
1,1,1-Trichloroethane						10
1,1,2-Trichloroethane						10
Trichloroethylene						10
Vinyl Chloride						10

Acid-Extractable Compounds	Laboratory Analysis					Maximum Allowable MQL (µg/l)
	Results (µg/l)	Results (µg/l)	Results (µg/l)	Approved EPA Method used	Detection Level Achieved (µg/l)	
2-Chlorophenol						10
2,4-Dichlorophenol						10
2,4-Dimethylphenol						10
4,6-Dinitro-o-Cresol						50
2,4-Dinitrophenol						50
2-Nitrophenol						20
4-Nitrophenol						50
P-Chloro-m-Cresol						10
Pentachlorophenol						5
Phenol						10
2,4,6-Trichlorophenol						10

Base/Neutral Compounds	Laboratory Analysis					Maximum Allowable MQL (µg/l)
	Results (µg/l)	Results (µg/l)	Results (µg/l)	Approved EPA Method used	Detection Level Achieved (µg/l)	
Acenaphthene						10
Acenaphthylene						10
Anthracene						10
Benzidine						50
Benzo(a)anthracene						5
Benzo(a)pyrene						5
3,4-Benzofluoranthene						10
Benzo(ghi)perylene						20
Benzo(k)fluoranthene						5
Bis(2-chloroethoxy) methane						10
Bis(2-chloroethyl) ether						10
Bis(2-chloroisopropyl) ether						10
Bis(2-ethylhexyl) phthalate						10
4-Bromophenyl phenyl ether						10
Butyl benzyl phthalate						10
2-Chloronaphthalene						10
4-Chlorophenyl phenyl ether						10
Chrysene						5
Dibenzo (a, h) anthracene						5
1,2-Dichlorobenzene						10
1,3-Dichlorobenzene						10
1,4-Dichlorobenzene						10
3,3'-Dichlorobenzidine						5
Diethyl Phthalate						10
Dimethyl Phthalate						10
Di-n-Butyl Phthalate						10
2,4-Dinitrotoluene						10
2,6-Dinitrotoluene						10
Di-n-octyl Phthalate						10

Base/Neutral Compounds	Laboratory Analysis					Maximum Allowable MQL (µg/l)
	Results (µg/l)	Results (µg/l)	Results (µg/l)	Approved EPA Method used	Detection Level Achieved (µg/l)	
1,2-Diphenylhydrazine						20
Fluoranthene						6.6
Fluorene						10
Hexachlorobenzene						5
Hexachlorobutadiene						10
Hexachlorocyclo-pentadiene						10
Hexachloroethane						20
Indeno (1,2,3-cd) pyrene (2,3-o-phenylene pyrene)						5
Isophorone						10
Naphthalene						10
Nitrobenzene						10
N-nitrosodimethylamine						50
N-nitrosodi-n-propylamine						20
N-nitrosodiphenylamine						20
Phenanthrene						10
Pyrene						10
1,2,4-Trichlorobenzene						10

Dioxin	Laboratory Analysis					Maximum Allowable MQL (µg/l)
	Results (µg/l)	Results (µg/l)	Results (µg/l)	Approved EPA Method Used	Detection Level Achieved (µg/l)	
2,3,7,8-Tetrachloro-dibenzo-p-dioxin (TCDD)						0.00001