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| Minnesota Pollution Control Agency (MPCA), 520 Lafayette Road North, St. Paul, MN 55155-4194 | PFAS Source and Exposure Reduction Plan (SERP) Template Industrial StormwaterDoc Type: Industrial Stormwater Permit PFAS SERP |

## Instructions: The Industrial Stormwater Per- and polyfluoroalkyl substances (PFAS) Source and Exposure Reduction Plan (SERP) template is intended for use by facilities who, under the 2025 Industrial Stormwater (ISW) General Permit, completed four quarters of PFAS stormwater monitoring, which resulted in PFAS analyte results above certain threshold values.

This template is subject to periodic updates. When using this template, please ensure you are using the most up-to-date version.

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| 1. General facility information
 |
| 1. Facility name:
 |       |
| Primary SIC Code associated with PFAS: |       |  |
| Description of primary product produced, or operation performed, at the facility: |
|       |
| Industrial Stormwater Coverage ID: | MNR:  |       |  |
| Physical street address:  |       |
| City or Township: |       | County: |       | Zip code: |       |
| Mailing address*(if not the same as the facility’s physical address)*: |       |
| City or Township: |       | State: |       | Zip code: |       |

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| 1. Name of Corporate/Company owner:
 |       |
| Name of Legally Responsible Official: |       |
| Title: |       | Phone: |       |
| Email address: |       |  |  |

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| 1. Name of Facility’s PFAS Stormwater Monitoring contact:
 |       |
| Title: |       | Phone: |       |
| Email address: |       |  |  |
| Are there other individuals responsible for conducting PFAS Stormwater Monitoring at the facility? [ ]  Yes [ ]  No |
| If *yes*, please provide the following for the Responsible Individual(s) conducting PFAS Stormwater Monitoring at the facility: |
| Name: |       | Title: |       |
| Phone number: |       | Email address: |       |
| Name: |       | Title: |       |
| Phone number: |       | Email address: |       |

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| 1. The facility is in or within 1 mile of an area of environmental justice (EJ): [ ]  Yes [ ]  No
 |
| Check your location here: <https://experience.arcgis.com/experience/bff19459422443d0816b632be0c25228/page/Page/?views=EJ-areas> |
| The facility is in or within 1 mile of a Drinking Water Supply Management Area (DWSMA) as defined in Minn. R. 4720.5100, subp.13: [ ]  Yes [ ]  No |
| Check your location here: <https://pca-gis02.pca.state.mn.us/ISW/> |
| If *yes*, please provide the DWSMA’s vulnerability (e.g.: high vulnerability): |
|       |
| The facility is in or within 1 mile of a Class 1 Water of the State, as defined in Minn. R. 7050.0221, which receives stormwater discharge from the facility: [ ]  Yes [ ]  No |
| Check your location here: <https://pca-gis02.pca.state.mn.us/ISW/>  |
| If *yes*, please provide the name(s) and classification(s) of the Class 1 Water(s): |
|       |
| The facility has a direct discharge to a surface water with PFAS site-specific water quality criterion (WQC): [ ]  Yes [ ]  No |
| Check your location here: <https://www.pca.state.mn.us/business-with-us/site-specific-water-quality-criteria> |
| If *yes*, please provide the name(s) of the surface water(s): |
|       |

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| 1. PFAS Identification
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| It is important for every site/facility to be aware that chemical vendors may change chemical compositions over time and regulatory authorities (e.g.: U.S. EPA, MDH, MPCA) may learn more and be concerned with other concentrations of PFAS in the future. |
| 1. List of PFAS-containing materials and/or products which were or are used, processed, and stored at the facility:
 |
|       |
| 1. How and when PFAS-containing materials and/or products were or are used, processed, and stored at the facility:
 |
|       |
| 1. Location(s) where PFAS-containing materials and/or products were or are used, processed, and stored at the facility:
 |
|       |
| 1. Describe the most probable route(s) of PFAS exposure to the environment at the facility:
 |
|       |
| 1. Has the facility experienced a fire event, testing of a fire suppressant system, or fire training event that required or possibly included the use of aqueous film forming foam or other fire suppressants containing PFAS? [ ]  Yes [ ]  No
 |
| If *yes*, please provide the date(s) the event(s) occurred, where the events took place at the facility, and how the facility cleaned-up and disposed of the applied fire suppressant, if applicable: |
|       |

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| 1. PFAS Stormwater monitoring results
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| The 2025 ISW General Permit requires facilities to complete four quarters of PFAS stormwater monitoring in accordance with the United States Environmental Protection Agency’s (EPA) Method 1633 at all areas identified as *Area(s) Of Concern* (AOC) location(s) for both current and historical use of PFAS. If the facility has more than one AOC location, then its SERP must include all AOC locations and sample results (See Appendix A).  |
| 1. AOC Monitoring location(s)
 |
| Facility has a total of: |       | AOC locations |
| Local name of AOC Monitoring Location 1: |       |
| GPS Coordinates, formatted in decimal degrees, of AOC Monitoring Location 1 (e.g.: 44.9568, -93.0844): |
|       |
| Detailed description of AOC Monitoring Location 1 (e.g.: NE corner of the production roof). Must also be identified in the facility’s SWPPP map: |
|       |
| How did the facility identify the boundary and area for AOC Monitoring Location 1: |
|       |
| How did the facility identify the PFAS monitoring location for AOC Monitoring Location 1: |
|       |

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| Sample date (mm/dd/yyyy): |       | Sample date (mm/dd/yyyy): |       | Sample date (mm/dd/yyyy): |       | Sample date (mm/dd/yyyy): |       |
| Photos taken of the sample collection: [ ]  Yes [ ]  No | Photos taken of the sample collection: [ ]  Yes [ ]  No | Photos taken of the sample collection: [ ]  Yes [ ]  No | Photos taken of the sample collection: [ ]  Yes [ ]  No |
| If *yes*, please include copies of the photos in this SERP. | If *yes*, please include copies of the photos in this SERP. | If *yes*, please include copies of the photos in this SERP. | If *yes*, please include copies of the photos in this SERP. |
| The following was sampled (check one): | The following was sampled (check one): | The following was sampled (check one): | The following was sampled (check one): |
| [ ]  Snow | [ ]  Snow | [ ]  Snow | [ ]  Snow |
| [ ]  Measurable snowmelt | [ ]  Measurable snowmelt | [ ]  Measurable snowmelt | [ ]  Measurable snowmelt |
| [ ]  Measurable rain runoff | [ ]  Measurable rain runoff | [ ]  Measurable rain runoff | [ ]  Measurable rain runoff |
| Sampling technique and materials (check one): | Sampling technique and materials (check one): | Sampling technique and materials (check one): | Sampling technique and materials (check one): |
| [ ]  Sheet flow sampling | [ ]  Sheet flow sampling | [ ]  Sheet flow sampling | [ ]  Sheet flow sampling |
| [ ]  Grab sampling | [ ]  Grab sampling | [ ]  Grab sampling | [ ]  Grab sampling |
| [ ]  Snow sampling | [ ]  Snow sampling | [ ]  Snow sampling | [ ]  Snow sampling |
| Please describe if more than one technique was used: | Please describe if more than one technique was used: | Please describe if more than one technique was used: | Please describe if more than one technique was used: |
|       |       |       |       |

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| **Field quality control samples:** Field quality control (QC) samples are a means of assessing quality from the point of collection. PFAS data are collected for a variety of purposes and reporting limit goals (down to parts per trillion). Appropriate field quality control processes should be taken to ensure that the sensitivity of the results desired is not compromised by potential cross contamination. Collection and analysis of field QC samples are important to ensure accuracy and representativeness of the results to the samples media, and to assess potential cross-contamination. |
| A QC sample was taken: | A QC sample was taken: | A QC sample was taken: | A QC sample was taken: |
| [ ]  Yes [ ]  No | [ ]  Yes [ ]  No | [ ]  Yes [ ]  No | [ ]  Yes [ ]  No |
| If *yes*, how many QC samples were taken: | If *yes*, how many QC samples were taken: | If *yes*, how many QC samples were taken: | If *yes*, how many QC samples were taken: |
|       |       |       |       |
| List PFAS analytes detected (if any): | List PFAS analytes detected (if any): | List PFAS analytes detected (if any): | List PFAS analytes detected (if any): |
|       |       |       |       |
| Accredited laboratory that analyzed the samples: |
|       |

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| **For averaging purposes:** Use a value of zero for any sample result the laboratory reports is less than the method detection limit. For results that fall between the method detection level and the quantitation/reporting limit (i.e., a confirmed detection, but below the level that can be reliably quantified), use a value halfway between zero and the quantitation/reporting limit |
| Average PFOA result (in ng/L): |       | Average PFOS result (in ng/L): |       |
| Average PFHxS result (in ng/L): |       | Average PFNA result (in ng/L): |       |
| Average HFPO-DA (commonly known as GenX Chemicals) result (in ng/L): |       |

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| 1. Facility’s PFAS-reducing and eliminating efforts
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| a. Removal and/or replacement of Facility’s PFAS sources |
| Status on the facility’s PFAS-containing materials and/or products that were or are used, processed, and stored: |
| Have PFAS-containing materials, products, and/or processes been completely removed from all facility operations? |
| [ ]  Yes [ ]  No |
| If *yes*, please identify the materials, products, and/or processes removed and the approximate dates of removal. If applicable, please identify the non-PFAS replacement materials, products, and/or processes: |
|       |
| If no, please describe the progress being made to eliminate PFAS from the facility’s operations: |
|       |
| 1. Status on PFAS-contaminated facility equipment:
 |
| Has the facility implemented cleaning of facility equipment (e.g.: tanks, pipes, valves, ducts, part racks, rooftops, downspouts, air control equipment, etc.) to reduce potential PFAS exposure to the environment? |
| [ ]  Yes [ ]  No |
| If yes, please describe what equipment and areas were cleaned and how the cleaning occurred: |
|       |
| If no, please describe the progress being made to clean facility equipment and areas exposed to PFAS: |
|       |
| Has the facility implemented isolation or containment measures to limit (e.g.: installation of liners) facility equipment exposure to current or historical PFAS uses? |
| [ ]  Yes [ ]  No |
| If yes, please describe what measures were implemented, and how is it expected to reduce and/or eliminate PFAS leaving the facility and entering stormwater: |
|       |
| If no, please explain the progress being made to isolate and contain PFAS within facility equipment exposed to PFAS: |
|       |
| Has PFAS contaminated equipment been completely removed from the facility:  |
| [ ]  Yes [ ]  No |
| If yes, please provide a description of the equipment that was removed, how it was disposed of, and if applicable, what replaced the equipment. Please include approximate date(s) of removal: |
|       |
| If no, please describe the progress being made to remove PFAS contaminated equipment from the facility: |
|       |
| c. PFAS Stormwater Best Management Practices (BMPs) |
| Have current stormwater BMPs been evaluated for effectiveness in the containment and/or reduction of PFAS? |
| [ ]  Yes [ ]  No |
| If yes, please explain what stormwater BMPs were evaluated and the result(s) of the evaluation. Further, please explain if stormwater BMPs have been or will be replaced as a result of the evaluation: |
|       |
| If no, please describe what BMPs are to be evaluated and why: |
|       |

## Appendix A(Use Appendix A for all additional AOC PFAS stormwater sample locations at the facility)

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| Additional AOC Sampling Locations and PFAS Stormwater Monitoring Results (if applicable) |
| Local name of AOC Monitoring Location #: |       |
| GPS Coordinates, formatted in decimal degrees, of AOC Monitoring Location (e.g.: 44.9568, -93.0844): |
|       |
| Detailed description of AOC Monitoring Location (e.g.: NE corner of the production roof). Must also be identified in the facility’s SWPPP map: |
|       |
| How did the facility identify the boundary and area for AOC Monitoring Location: |
|       |
| How did the facility identify the PFAS monitoring location for AOC Monitoring Location: |
|       |

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| Sample date (mm/dd/yyyy): |       | Sample date (mm/dd/yyyy): |       | Sample date (mm/dd/yyyy): |       | Sample date (mm/dd/yyyy): |       |
| Photos taken of the sample collection: [ ]  Yes [ ]  No | Photos taken of the sample collection: [ ]  Yes [ ]  No | Photos taken of the sample collection: [ ]  Yes [ ]  No | Photos taken of the sample collection: [ ]  Yes [ ]  No |
| If *yes*, please include copies of the photos in this SERP. | If *yes*, please include copies of the photos in this SERP. | If *yes*, please include copies of the photos in this SERP. | If *yes*, please include copies of the photos in this SERP. |
| The following was sampled (check one): | The following was sampled (check one): | The following was sampled (check one): | The following was sampled (check one): |
| [ ]  Snow | [ ]  Snow | [ ]  Snow | [ ]  Snow |
| [ ]  Measurable snowmelt | [ ]  Measurable snowmelt | [ ]  Measurable snowmelt | [ ]  Measurable snowmelt |
| [ ]  Measurable rain runoff | [ ]  Measurable rain runoff | [ ]  Measurable rain runoff | [ ]  Measurable rain runoff |
| Sampling technique and materials (check one): | Sampling technique and materials (check one): | Sampling technique and materials (check one): | Sampling technique and materials (check one): |
| [ ]  Sheet flow sampling | [ ]  Sheet flow sampling | [ ]  Sheet flow sampling | [ ]  Sheet flow sampling |
| [ ]  Grab sampling | [ ]  Grab sampling | [ ]  Grab sampling | [ ]  Grab sampling |
| [ ]  Snow sampling | [ ]  Snow sampling | [ ]  Snow sampling | [ ]  Snow sampling |
| Please describe if more than one technique was used: | Please describe if more than one technique was used: | Please describe if more than one technique was used: | Please describe if more than one technique was used: |
|       |       |       |       |

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| **Field quality control samples:** Field quality control (QC) samples are a means of assessing quality from the point of collection. PFAS data are collected for a variety of purposes and reporting limit goals (down to parts per trillion). Appropriate field quality control processes should be taken to ensure that the sensitivity of the results desired is not compromised by potential cross contamination. Collection and analysis of field QC samples are important to ensure accuracy and representativeness of the results to the samples media, and to assess potential cross-contamination. |
| A QC sample was taken: | A QC sample was taken: | A QC sample was taken: | A QC sample was taken: |
| [ ]  Yes [ ]  No | [ ]  Yes [ ]  No | [ ]  Yes [ ]  No | [ ]  Yes [ ]  No |
| If *yes*, how many QC samples were taken: | If *yes*, how many QC samples were taken: | If *yes*, how many QC samples were taken: | If *yes*, how many QC samples were taken: |
|       |       |       |       |
| List PFAS analytes detected (if any): | List PFAS analytes detected (if any): | List PFAS analytes detected (if any): | List PFAS analytes detected (if any): |
|       |       |       |       |
| Accredited laboratory that analyzed the samples: |
|       |

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| **For averaging purposes:** Use a value of zero for any sample result the laboratory reports is less than the method detection limit. For results that fall between the method detection level and the quantitation/reporting limit (i.e., a confirmed detection, but below the level that can be reliably quantified), use a value halfway between zero and the quantitation/reporting limit |
| Average PFOA result (in ng/L): |       | Average PFOS result (in ng/L): |       |
| Average PFHxS result (in ng/L): |       | Average PFNA result (in ng/L): |       |
| Average HFPO-DA (commonly known as GenX Chemicals) result (in ng/L): |       |