



PHIL-27540

February 28, 2022

Project Number 08005-WE04

Mr. Thomas Magge  
Clean Water Environmental Program Manager  
Pennsylvania Department of Environmental Protection  
Southeast Regional Office  
2 East Main Street  
Norristown, Pennsylvania 19401

Reference: Contract No. N6247016D9008  
Contract Task Order No. WE04

Subject: Discharge Monitoring Report - January 1 to January 31, 2022  
WQM Permit # 0920203 - Effective: February 1, 2021, Expires: January 31, 2026  
Site 5 Per- and Polyfluoroalkyl Substances Pilot Test System  
Former Naval Air Station Joint Reserve Base Willow Grove  
Horsham Township, Pennsylvania

Dear Mr. Magge:

On behalf of the U.S. Navy, Tetra Tech is pleased to submit the Discharge Monitoring Report (DMR) for the Site 5 per- and polyfluoroalkyl substances (PFAS) pilot test system in operation at the Former Naval Air Station Joint Reserve Base Willow Grove in Horsham Township, Pennsylvania. During this reporting period, the Navy received final approval from the United States Environmental Protection Agency to place the system online full-time. The system was placed online on January 31, 2022. During the reporting period, 16,014 gallons of water were discharged on January 31, 2022 to Outfall 2.

Please do not hesitate to contact me if you have any questions.

Sincerely,

A handwritten signature in black ink that reads 'Tricia E. Moore'.

Tricia E. Moore, PG  
Senior Project Manager

TM/nfs

Attachments:

Discharge Monitoring Report - January 1 to January 31, 2022

c: Brian Helland (Navy BRAC PMO)  
Dawn DeFreitas (Navy BRAC PMO)  
Willington Lin (Navy BRAC PMO)  
Colin Wade (PADEP)  
Sarah Kloss (EPA Region 3)  
Navy Caretaker Office  
NIRIS RDM

3800-FM-BCW0462  
12/2016  
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COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF CLEAN WATER  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

Facility Type: **Minor**

NAME Naval Facilities Mid Atlantic  
ADDRESS 4911 South Broad Street  
Philadelphia, PA 19112  
FACILITY Willow Grove NASJRB  
LOCATION Site 5  
Montgomery County  
WATERSHED 3-J

**0920203**  
PERMIT NUMBER

**002**  
OUTFALL NUMBER

| MONITORING PERIOD |    |     |    |      |    |     |
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| 2022              | 1  | 1   |    | 2022 | 1  | 31  |

Reporting Frequency: Monthly  
DMR Effective From: February 1, 2021  
DMR Effective To: January 31, 2026  
Permit Expires: January 31, 2026  
Permit Application Due: August 4, 2025  
 Check Here if No Discharge

NOTE: Read Instructions before completing this form

| PARAMETER              |                    | QUANTITY OR LOADING |       |       | QUALITY OR CONCENTRATION |                |          |       | NO. EX | FREQUENCY OF ANALYSIS | SAMPLE TYPE |
|------------------------|--------------------|---------------------|-------|-------|--------------------------|----------------|----------|-------|--------|-----------------------|-------------|
|                        |                    | VALUE               | VALUE | UNITS | VALUE                    | VALUE          | VALUE    | UNITS |        |                       |             |
| Flow                   | SAMPLE MEASUREMENT | 0.0288              |       |       |                          |                |          |       |        |                       |             |
|                        | PERMIT REQUIREMENT | Report Avg Mo       | XXX   | MGD   | XXX                      | XXX            | XXX      | XXX   |        | Continuous            | Recorded    |
| pH                     | SAMPLE MEASUREMENT |                     |       |       | 6.53                     |                | 6.53     |       |        |                       |             |
|                        | PERMIT REQUIREMENT | XXX                 | XXX   | XXX   | 6.0 Inst Min             | XXX            | 9.0 IMAX | S.U.  |        | 1/month               | Grab        |
| Total Suspended Solids | SAMPLE MEASUREMENT |                     |       |       |                          | <4.0           |          |       |        |                       |             |
|                        | PERMIT REQUIREMENT | XXX                 | XXX   | XXX   | XXX                      | 10.0 Avg Mo    | XXX      | mg/L  |        | 1/month               | Grab        |
| Aluminum, Total        | SAMPLE MEASUREMENT |                     |       |       |                          | <0.3           |          |       |        |                       |             |
|                        | PERMIT REQUIREMENT | XXX                 | XXX   | XXX   | XXX                      | 0.75 Daily Max | XXX      | mg/L  |        | 1/month               | Grab        |
| Chromium, Hexavalent   | SAMPLE MEASUREMENT |                     |       |       |                          | <0.00002       |          |       |        |                       |             |
|                        | PERMIT REQUIREMENT | XXX                 | XXX   | XXX   | XXX                      | 0.0152 Avg Mo  | XXX      | mg/L  |        | 1/month               | Grab        |
| Iron, Dissolved        | SAMPLE MEASUREMENT |                     |       |       |                          | <0.1           |          |       |        |                       |             |
|                        | PERMIT REQUIREMENT | XXX                 | XXX   | XXX   | XXX                      | 0.439 Avg Mo   | XXX      | mg/L  |        | 1/month               | Grab        |

|  |   |  |           |          |      |    |     |
|--|---|--|-----------|----------|------|----|-----|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER<br>Dawn M. DeFreitas, BEC by direction of BRAC PMO, and in my official capacity | I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel 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. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification). |  | TELEPHONE |          | DATE |    |     |
|  |   |  | 215       | 897-4903 | 2022 | 02 | 28  |
| TYPED OR PRINTED   |   | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | AREA CODE | NUMBER   | YEAR | MO | DAY |

COMMENTS (Report all violations on the "Non-Compliance Reporting Form"): Per the permit section C(E)(1), the dieldrin quantitation limit is 0.05 micrograms per liter. For the purpose of compliance, a statistical value report on the DMR that is less than the QL(s) (i.e., "non-detect") will be considered to be in compliance.

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BUREAU OF CLEAN WATER  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)

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|----------------------------|--------------------|---------------------|-------|-------|--------------------------|---------------|-------------|-------|--------|-----------------------|-------------|
|                            |                    | VALUE               | VALUE | UNITS | VALUE                    | VALUE         | VALUE       | UNITS |        |                       |             |
| Iron, Total                | SAMPLE MEASUREMENT |                     |       |       |                          | <0.1          |             |       |        |                       |             |
|                            | PERMIT REQUIREMENT | XXX                 | XXX   | XXX   | XXX                      | Report Avg Mo | Report IMAX | mg/L  |        | 1/month               | Grab        |
| Lead, Total                | SAMPLE MEASUREMENT |                     |       |       |                          | <0.003        |             |       |        |                       |             |
|                            | PERMIT REQUIREMENT | XXX                 | XXX   | XXX   | XXX                      | Report Avg Mo | Report IMAX | mg/L  |        | 1/month               | Grab        |
| Zinc, Total                | SAMPLE MEASUREMENT |                     |       |       |                          | <0.02         |             |       |        |                       |             |
|                            | PERMIT REQUIREMENT | XXX                 | XXX   | XXX   | XXX                      | Report Avg Mo | Report IMAX | mg/L  |        | 1/month               | Grab        |
| 1,2-Dichloroethane         | SAMPLE MEASUREMENT |                     |       |       |                          | <0.00050      |             |       |        |                       |             |
|                            | PERMIT REQUIREMENT | XXX                 | XXX   | XXX   | XXX                      | Report Avg Mo | Report IMAX | mg/L  |        | 1/month               | Grab        |
| Bis(2-Ethylhexyl)Phthalate | SAMPLE MEASUREMENT |                     |       |       |                          | <0.00080      |             |       |        |                       |             |
|                            | PERMIT REQUIREMENT | XXX                 | XXX   | XXX   | XXX                      | Report Avg Mo | Report IMAX | mg/L  |        | 1/month               | Grab        |

|  |   |  |           |          |      |    |     |
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| Dawn M. DeFreitas, BEC by direction of BRAC PMO, and in my official capacity |   |  | 215       | 897-4903 | 2022 | 02 | 28  |
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|                      |                    | VALUE               | VALUE | UNITS | VALUE                    | VALUE         | VALUE       | UNITS |        |                       |             |
| Dieldrin             | SAMPLE MEASUREMENT |                     |       |       |                          | <0.0310       |             |       |        |                       |             |
|                      | PERMIT REQUIREMENT | XXX                 | XXX   | XXX   | XXX                      | 0.0003 Avg Mo | XXX         | ug/L  |        | 1/month               | Grab        |
| 1,1-Dichloroethylene | SAMPLE MEASUREMENT |                     |       |       |                          | <0.00050      |             |       |        |                       |             |
|                      | PERMIT REQUIREMENT | XXX                 | XXX   | XXX   | XXX                      | Report Avg Mo | Report IMAX | mg/L  |        | 1/month               | Grab        |
| Trichloroethylene    | SAMPLE MEASUREMENT |                     |       |       |                          | <0.00050      |             |       |        |                       |             |
|                      | PERMIT REQUIREMENT | XXX                 | XXX   | XXX   | XXX                      | Report Avg Mo | Report IMAX | mg/L  |        | 1/month               | Grab        |
| PFOA                 | SAMPLE MEASUREMENT |                     |       |       |                          |               |             |       |        |                       |             |
|                      | PERMIT REQUIREMENT | XXX                 | XXX   | XXX   | XXX                      | XXX           | Report IMAX | ug/L  |        | 1/month               | Grab        |

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|                     |                    | VALUE               | VALUE | UNITS | VALUE                    | VALUE       | VALUE       | UNITS |        |                       |             |
| PFOS                | SAMPLE MEASUREMENT |                     |       |       |                          |             |             |       |        |                       |             |
|                     | PERMIT REQUIREMENT | XXX                 | XXX   | XXX   | XXX                      | XXX         | Report IMAX | ug/L  |        | 1/month               | Grab        |
| Total PFOA and PFOS | SAMPLE MEASUREMENT |                     |       |       |                          | <0.01       |             |       |        |                       |             |
|                     | PERMIT REQUIREMENT | XXX                 | XXX   | XXX   | XXX                      | 0.07 Avg Mo | XXX         | ug/L  |        | 1/month               | Calculation |

|   |   |  |           |          |      |    |     |
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