US Army Corps of Engineers
Baltimore District

QUARTERLY OM&M REPORT NO. 7

January to March 2022

PFOS/PFOA Mitigation
Interim Storm Water Treatment System
Long Term Operation, Maintenance, and Monitoring Services

Stewart Air National Guard Base, New York
Contract No. W912DR-21-C-0035

June 2022

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TABLE OF CONTENTS

SECTION **PAGE**

TABLES

FIGURES

ATTACHMENT

ACRONYMS AND ABBREVIATIONS

AFFF	aqueous film forming foam
ANG	Air National Guard
BES	Bristol Environmental Solutions, LLC
DoD	U.S. Department of Defense
EPA	Environmental Protection Agency
GAC	granular activated carbon
HA	Health Advisory
ISWTS	Interim Storm Water Treatment System
mg/L	milligrams per liter
NTU	nephelometric turbidity units
OM&M	Operations, Maintenance, and Monitoring
PFAS	polyfluoroalkyl substances
PFOA	perfluorooctanoic acid
PFOS	perfluorooctanesulfonic acid
ppt	parts per trillion
SANGB	Stewart Air National Guard Base
TOC	total organic carbon
USACE	US Army Corps of Engineers

1.0 INTRODUCTION

Bristol Environmental Solutions, LLC (BES), under Contract with the US Army Corps of Engineers (USACE) is operating an Interim Storm Water Treatment System (ISWTS) on behalf of the Air National Guard (ANG) at Stewart Air National Guard Base (SANGB) in Newburgh, New York. The stormwater is contaminated with perfluorooctanesulfonic acid (PFOS) and perfluorooctanoic acid (PFOA). PFOS and PFOA are two constituents of aqueous film-forming foam (AFFF), that have been detected above the U.S. Environmental Protection Agency (EPA) drinking water lifetime Health Advisory (HA) standard of 70 parts per trillion (ppt) (individually or combined).

The ISWTS intercepts stormwater from Recreation Pond and discharges treated effluent over the existing Recreation Pond outfall weir. When weather conditions allow, the ISWTS draws down the pond level and treats all stormwater discharges. The Recreation Pond drawdown provides a storage reservoir to prevent discharge of PFOS/PFOA when precipitation occurs. When precipitation events occur that exceed the ISWTS capacity and fill up the Recreation Pond both treated effluent and untreated stormwater go over the outfall weir.

This is the seventh quarterly report that summarizes Operations, Maintenance, and Monitoring (OM&M) activities conducted by BES at SANGB. This report summarizes ISWTS operations between January 01 and March 31, 2022, at SANGB.

2.0 GENERAL COMPLIANCE SUMMARY

The ISWTS operations began treatment of water on July 13, 2020, following installation and commissioning of pretreatment system improvements in June and early July 2020. This report summarizes OM&M between January 01 and March 31, 2022, or months 19, 20, and 21 post start-up. During the performance period the system influent, intra-process monitoring (3 locations) and effluent was monitored weekly to confirm treatment system

effectiveness for PFOS and PFOA as well as other per- and polyfluoroalkyl substances (PFAS). Performance sampling was conducted a total of 13 days during the quarterly period. Final PFAS results are provided in **Table 1**. Based on validated analytical data, all effluent sample results were well below the discharge criteria of 70 ppt (individually or combined) in the off-base stormwater discharge at Recreation Pond.

3.0 ISWTS CONFIGURATION DURING PERFORMANCE PERIOD

The ISWTS maintained the following unit processes; centrifugal separator, coarse sand filtration, fine sand filtration, primary and secondary bag filtration, primary and secondary granular activated carbon (GAC), and ion exchange resin serving as a polishing media throughout this performance period. Peracetic acid continued to be introduced prior to the centrifugal separator at a low (safe) concentration to reduce biological growth in the system. The system configuration is shown on **Figure 1**.

4.0 GENERAL FACILITY OPERATIONS SUMMARY

During the performance period, a total of 27,466,544 gallons of stormwater was treated and discharged over the outfall weir by the ISWTS. In addition, during this performance period, a total of 1,060,286 gallons of stormwater was recirculated to the Recreation Pond while the media was being exchanged and temperatures were below freezing. The table below summarizes the total volume treated (gallons), operational time (hours), run time (% of total time), and average treatment rate (gallons per minute) during each month of system operations. The total gallons summarized below represent the total water discharged over the weir as no water was treated and recycled back to the pond. As noted in the below summary, the ISWTS and influent pump does not run all the time. It is turned off when system maintenance is being performed, during power failures, and during periods when Recreation Pond drawdown objectives were achieved.

Month	Volume Treated (Gallons)	Operational Time[1] (Hours)	Run Time[2] (Percent)	Average Treatment Flow[3] (GPM)
January 2022	11,043,380	755	98%	244
February 2022	6,853,774	684	98%	193
March 2022	9,569,390	732	99%	218
Total	27,466,544	2,171		

[1]Operation Time – Hours influent pump in operation during month
[2]Run Time – Hours pump running divided by the total period time
[3]Average GPM – Average flow total gallons divided by operational hours

There were 90 days of operation between January 01 and March 31, 2022. During this period of performance, the Recreation Pond was drawn down for six of the 90 days or 7% of the time. The Recreation Pond level during the performance period is shown on Figure 2.

5.0 FACILITY PERFORMANCE MONITORING

5.1 INFLUENT AND EFFLUENT PFOS AND PFOA MONITORING

As previously noted, PFOS and PFOA samples were collected 13 times on the influent and effluent during the performance period. Figure 3 shows the influent and effluent combined PFOS and PFOA concentrations based on the validated results. As shown in Figure 3, the combined PFOS and PFOA influent and effluent averaged concentrations during the performance period were 243 ppt and 0.39 ppt, respectively. The maximum combined PFOS and PFOA influent concentration was 315 ppt on February 1, 2022, and the maximum combined PFOS and PFOA effluent concentration was 3.0 ppt on March 8, 2022, of the performance period.

5.2 INTRA-PROCESS PFOS AND PFOA MONITORING

With exception to the media exchange period, intra-process monitoring for PFOS and PFOA was performed after the primary and secondary GAC and Ion Exchange resin to confirm media effectiveness. The primary GAC media were replaced between February 9

and 15, 2022. The secondary GAC and Ion exchange resin were replaced between March 9 and 14, 2022. Based on intra-process sample results the maximum detection of PFOS/PFOA in the primary GAC was 59.0 ppt prior to the primary GAC media change on February 8, 2022. The maximum detection of PFOS and PFOA in the secondary GAC and ion exchange resin was 29.0 ppt and 3.0 ppt respectively prior to the secondary GAC and ion exchange media change on March 8, 2022. The media exchanges were primarily performed because the media condition was restricting throughput and causing excessive maintenance. Following media changeout of the primary and secondary GAC and ion exchange resin, intra-process sampling for PFOS and PFOA were continued on a weekly basis to further confirm their effectiveness. Increased frequency would have been performed if reduced treatment system performance was observed. However, media performance for PFOS/PFOA removal was sufficient for the remainder of the quarter.

5.3 OTHER WATER QUALITY MONITORING

During the performance period additional monitoring was performed for total organic carbon (TOC), and glycols on the influent, secondary GAC effluent and final effluent. These results are shown in **Table 2**. Elevated TOC is known to impact treatment media life. The ion exchange resin manufacturer recommends that TOC not be more than 2 milligrams per liter (mg/L). The influent TOC was 4.7 mg/L, and the GAC-2 effluent (influent to the resin) was 1.1 mg/L indicating that the influent TOC level to the ion exchange resin was acceptable. Glycol was not detected in the February 22, 2022, samples. No results were cause for concern or believed to negatively impact the ISWTS performance.

5.4 TURBIDITY MONITORING

Turbidity is a measurement that can quantify the level of solids present in the water. It is an onsite test that is helpful to measure in real time, the influent water quality and intra-process performance to confirm the effectiveness of the treatment system in removing

solids. During the performance period, influent and effluent turbidity averaged 4.62 nephelometric turbidity units (NTU) and 0.56 NTU, respectively. A graph of the influent and effluent turbidity during the performance period is included as **Figure 4**.

5.5 PERACETIC ACID ADDITION

As discussed, peracetic acid was added to the process influent to help reduce biological growth in the system. During the performance period 14.4 gallons of peracetic acid was introduced, and the average dose was 0.50 gallon of peracetic acid per million gallons of water treated or 1.30 pounds per day.

6.0 SCHEDULED PREVENTIVE MAINTANANCE

During the performance period the following preventive maintenance activities were completed:

- Coarse and fine sand filter backwashes;
- Coarse and fine sand filter cleanings;
- Coarse and fine sand filter media exchange;
- Primary and secondary bag filter changes;
- Primary and secondary carbon backwashing; and,
- Ion exchange resin skimming.

During the performance period the coarse and fine sand filters were backwashed 518 and 404 times, respectively and a total of 5 cleaning events were completed. The primary and secondary bag filters were changed 15 and 19 times, respectively, during the performance period. To maintain acceptable PFAS treatment media pressure, the primary and secondary GAC was backwashed 24 and 10 times, respectively during the quarter. The resin was inspected, skimmed and leveled twice to remove solids and reduce media pressure during the quarter. All carbon and resin were replaced during the performance period during two (2) separate mobilizations. The sand filter maintenance, bag filter

changes, GAC backwash events, media change outs and ion exchange resin skimming activities are summarized in Table 3.

7.0 MATERIAL DISPOSAL

Waste sand filter media spent bag filters, as well as spent GAC and ion exchange resin wastes were generated during the quarter. GAC materials were shipped to Calgon Corporation facility in Cattleburg, Kentucky, for reactivation on March 15, 2022. However, prefiltration media including bag filters and sand and gravel along with the ion exchange resin were not shipped for disposal due to a pending temporary moratorium on incineration by the U.S. Department of Defense (DoD) of Perfluoroalkyl Substances, Polyfluoroalkyl Substances, and Aqueous Film Forming Foam. Instead, these spent media generated during the quarter were staged on site while waiting for DoD interim guidance or EPA final ruling on PFAS waste destruction/disposal.

8.0 PROJECTED ACTIVITIES FOR NEXT PERFORMANCE PERIOD

During the next performance period additional media change is anticipated to meet performance objectives. We also plan to conduct annual equipment servicing and inspections and address new spent waste disposal options for the wastes currently staged on site. No capital improvements are planned at this time.

TABLES

TABLE 1 PFOS and PFOA Water Quality Monitoring Results

C201781V1 - 01/04/2022

RESULTS OF ANALYSES OF WATER **VALIDATED DATA**

Bureau Veritas ID		RNZ004	RNZ009	RNZ010	RNZ006	RNZ008	RNZ007	RNZ005			
Sampling Date		2022/01/04 07:30	2022/01/04 08:02	2022/01/04 08:02	2022/01/04 07:45	2022/01/04 07:57	2022/01/04 07:50	2022/01/04 07:40			
COC Number		N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	UNITS	**SANG-FB-01042022**	**SANG-INF-01042022**	**SANG-INF-01042022D**	**SANG-PDR1-01042022**	**SANG-PDG1-01042022**	**SANG-PDG2-01042022**	**SANG-EFF-01042022**	**DL**	**LOD**	**LOQ**
Perfluorinated Compounds											
Perfluorobutanoic acid (PFBA)	ng/L	1.4 U	26	26	6	2.4	1.5 U	3.7	0.74	1.5	2.2
Perfluoropentanoic acid (PFPeA)	ng/L	1.2 U	68	68	0.96 J	0.99 J	1.3 U	1.3 U	0.57	1.3	2.2
Perfluorohexanoic acid (PFHxA)	ng/L	1.4 U	56	57	1.5 U	1.5 U	1.5 U	1.5 U	0.77	1.5	2.2
Perfluoroheptanoic acid (PFHpA)	ng/L	1.2 U	27	27	1.3 U	1.3 U	1.3 U	1.3 U	0.56	1.3	2.2
Perfluorooctanoic acid (PFOA)	ng/L	1.2 U	27	27	1.3 U	1.3 U	1.3 U	1.3 U	0.54	1.3	2.2
Perfluorononanoic acid (PFNA)	ng/L	1.6 U	5.9	6.1	1.8 U	1.8 U	1.8 U	1.8 U	0.88	1.8	2.2
Perfluorodecanoic acid (PFDA)	ng/L	1.4 U	4.6	4.5	1.5 U	1.5 U	1.5 U	1.5 U	0.7	1.5	2.2
Perfluoroundecanoic acid (PFUnA)	ng/L	1.6 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	0.85	1.8	2.2
Perfluorododecanoic acid (PFDoA)	ng/L	1.2 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	0.65	1.3	2.2
Perfluorotridecanoic acid (PFTRDA)	ng/L	1.2 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	0.53	1.3	2.2
Perfluorotetradecanoic acid(PFTEDA)	ng/L	1.2 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	0.41	1.3	2.2
Perfluorobutanesulfonic acid (PFBS)	ng/L	1.2 U	12	12	1.3 U	1.3 U	1.3 U	1.3 U	0.52	1.3	2.2
Perfluoropentanesulfonic acid PFPes	ng/L	1.6 U	13	13	1.8 U	1.8 U	1.8 U	1.8 U	0.8	1.8	2.2
Perfluorohexanesulfonic acid(PFHxS)	ng/L	1.2 U	70	71	1.3 U	1.3 U	1.3 U	1.3 U	0.58	1.3	2.2
Perfluoroheptanesulfonic acid PFHpS	ng/L	1.2 U	3.3	3.4	1.3 U	1.3 U	1.3 U	1.3 U	0.63	1.3	2.2
Perfluorooctanesulfonic acid (PFOS)	ng/L	1.2 U	190 (1)	190 (1)	1.3 U	1.3 U	1.3 U	1.3 U	4.3	12	20
Perfluorononanesulfonic acid (PFNS)	ng/L	1.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.7	1.5	2.2
Perfluorodecanesulfonic acid (PFDS)	ng/L	1.2 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	0.58	1.3	2.2
Perfluorooctane Sulfonamide (PFOSA)	ng/L	2.0 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	0.89	2.2	4.4
MeFOSAA	ng/L	3.0 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	1.3	3.3	4.4
EtFOSAA	ng/L	3.0 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	1.5	3.3	4.4
4:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	1.2 J	1.3 J	1.8 U	1.8 U	1.8 U	1.8 U	0.76	1.8	4.4
6:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	63	62	1.8 U	1.8 U	1.8 U	1.8 U	0.65	1.8	4.4
8:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	13	13	1.8 U	1.8 U	1.8 U	1.8 U	0.83	1.8	4.4
Hexafluoropropyleneoxide dimer acid	ng/L	2.0 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	0.94	2.2	4.4
4,8-Dioxa-3H-perfluorononanoic acid	ng/L	1.2 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	0.34	1.3	4.4
9Cl-PF3ONS (F-53B Major)	ng/L	2.0 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	0.62	2.2	4.4
11Cl-PF3OUdS (F-53B Minor)	ng/L	2.0 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	0.57	2.2	4.4

Notes:

ng/L - nanograms per Liter or parts per trillion.
U - Undetected. Compound was analyzed for, but not detected.
J - Estimated result. Associated value may not be accurate or precise.
DL = Detection Limit
EFF = Effluent
FB= Field Blank
INF = Influent
LOD = Limit of Detection
LOQ = Limit of Quantitation
SANGB = Stewart Air National Guard Base
Sample SANG-FB-01042022 is a field blank.
Sample SANG-INF-01042022D is a field duplicate of SANG-INF-01042022.
Analytes highlighted in gray are the UCMR3 compounds.

Sample ports located in each of the 4 trains; A, B, C, D. such as: PBG1= post B train GAC unit 1.
PDR1 = post D train Resin 1
PDG1 = post D train GAC Unit 1
PDG2 = post D train GAC Unit 2
Effluent (EFF) = Treated water that has passed through the ISWTS
Influent (INF) = Untreated water from Recreational Pond
ISWTS = Interim Storm Water Treatment System

(1) Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was adjusted accordingly (10x). Some results reference different lab limits due to dilution.

TABLE 1 PFOS and PFOA Water Quality Monitoring Results

C208224V1 - 01/11/2022

RESULTS OF ANALYSES OF WATER **VALIDATED DATA**

Bureau Veritas ID		RPH175	RPH180	RPH181	RPH177	RPH179	RPH178	RPH176			
Sampling Date		2022/01/11 08:00	2022/01/11 08:38	2022/01/11 08:38	2022/01/11 08:15	2022/01/11 08:30	2022/01/11 08:22	2022/01/11 08:08			
COC Number		N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	UNITS	**SANG-FB-01112022**	**SANG-INF-01112022**	**SANG-INF-01112022D**	**SANG-PAR1-01112022**	**SANG-PAG1-01112022**	**SANG-PAG2-01112022**	**SANG-EFF-01112022**	**DL**	**LOD**	**LOQ**
Perfluorinated Compounds											
Perfluorobutanoic acid (PFBA)	ng/L	1.4 U	36	42	0.89 J	9.8	0.98 J	13	0.74	1.5	2.2
Perfluoropentanoic acid (PFPeA)	ng/L	1.2 U	90	100	1.2 U	8.1	1.2 U	0.65 J	0.57	1.3	2.2
Perfluorohexanoic acid (PFHxA)	ng/L	1.4 U	74	84	1.4 U	2.8	1.4 U	1.4 U	0.77	1.5	2.2
Perfluoroheptanoic acid (PFHpA)	ng/L	1.2 U	34	38	1.2 U	0.80 J	1.2 U	1.2 U	0.56	1.3	2.2
Perfluorooctanoic acid (PFOA)	ng/L	1.2 U	34	38	1.2 U	0.55 J	1.2 U	1.2 U	0.54	1.3	2.2
Perfluorononanoic acid (PFNA)	ng/L	1.6 U	7.7	8.7	1.6 U	1.6 U	1.6 U	1.6 U	0.88	1.8	2.2
Perfluorodecanoic acid (PFDA)	ng/L	1.4 U	6.0	6.6	1.4 U	1.4 U	1.4 U	1.4 U	0.70	1.5	2.2
Perfluoroundecanoic acid (PFUnA)	ng/L	1.6 U	1.6 U	1.8 U	1.6 U	1.6 U	1.6 U	1.6 U	0.85	1.8	2.2
Perfluorododecanoic acid (PFDoA)	ng/L	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.2 U	1.2 U	0.65	1.3	2.2
Perfluorotridecanoic acid (PFTRDA)	ng/L	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.2 U	1.2 U	0.53	1.3	2.2
Perfluorotetradecanoic acid(PFTEDA)	ng/L	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.2 U	1.2 U	0.41	1.3	2.2
Perfluorobutanesulfonic acid (PFBS)	ng/L	1.2 U	15	17	1.2 U	1.2 U	1.2 U	1.2 U	0.52	1.3	2.2
Perfluoropentanesulfonic acid PFPes	ng/L	1.6 U	17	20	1.6 U	1.6 U	1.6 U	1.6 U	0.80	1.8	2.2
Perfluorohexanesulfonic acid(PFHxS)	ng/L	1.2 U	95	110	1.2 U	1.2 U	1.2 U	1.2 U	0.58	1.3	2.2
Perfluoroheptanesulfonic acid PFHpS	ng/L	1.2 U	4.4	5.2	1.2 U	1.2 U	1.2 U	1.2 U	0.63	1.3	2.2
Perfluorooctanesulfonic acid (PFOS)	ng/L	1.2 U	240 (1)	240 (1)	1.2 U	1.6 J	1.2 U	1.2 U	4.3	12	20
Perfluorononanesulfonic acid (PFNS)	ng/L	1.4 U	1.4 U	1.5 U	1.4 U	1.4 U	1.4 U	1.4 U	0.70	1.5	2.2
Perfluorodecanesulfonic acid (PFDS)	ng/L	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.2 U	1.2 U	0.58	1.3	2.2
Perfluorooctane Sulfonamide (PFOSA)	ng/L	2.0 U	2.0 U	2.2 U	2.0 U	2.0 U	2.0 U	2.0 U	0.89	2.2	4.3
MeFOSAA	ng/L	3.0 U	3.0 U	3.3 U	3.0 U	3.0 U	3.0 U	3.0 U	1.3	3.3	4.3
EtFOSAA	ng/L	3.0 U	3.0 U	3.3 U	3.0 U	3.0 U	3.0 U	3.0 U	1.5	3.3	4.3
4:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	1.3 J	1.4 J	1.6 U	1.6 U	1.6 U	1.6 U	0.76	1.8	4.3
6:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	88	98	1.6 U	0.83 J	1.6 U	1.6 U	0.65	1.8	4.3
8:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	20	23	1.6 U	1.6 U	1.6 U	1.6 U	0.83	1.8	4.3
Hexafluoropropyleneoxide dimer acid	ng/L	2.0 U	2.0 U	2.2 U	2.0 U	2.0 U	2.0 U	2.0 U	0.94	2.2	4.3
4,8-Dioxa-3H-perfluorononanoic acid	ng/L	1.2 U	1.2 U	1.3 U	1.2 U	1.2 U	1.2 U	1.2 U	0.34	1.3	4.3
9Cl-PF3ONS (F-53B Major)	ng/L	2.0 U	2.0 U	2.2 U	2.0 U	2.0 U	2.0 U	2.0 U	0.62	2.2	4.3
11Cl-PF3OUdS (F-53B Minor)	ng/L	2.0 U	2.0 U	2.2 U	2.0 U	2.0 U	2.0 U	2.0 U	0.57	2.2	4.3

Notes:

ng/L - nanograms per Liter or parts per trillion.
U - Undetected. Compound was analyzed for, but not detected.
J - Estimated result. Associated value may not be accurate or precise.
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LOD = Limit of Detection
LOQ = Limit of Quantitation
SANGB = Stewart Air National Guard Base
Sample SANG-FB-01112022 is a field blank.
Sample SANG-INF-01112022D is a field duplicate of SANG-INF-01112022.
Analytes highlighted in gray are the UCMR3 compounds.

Sample ports located in each of the 4 trains; A, B, C, D. such as: PBG1= post B train GAC unit 1.
PAR1 = post A train Resin1
PAG1 = post A train GAC Unit 1
PAG2 = post A train GAC Unit 2
Effluent (EFF) = Treated water that has passed through the ISWTS
Influent (INF) = Untreated water from Recreational Pond
ISWTS = Interim Storm Water Treatment System

(1) Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was adjusted accordingly (10x). Some results reference different lab limits due to dilution.

TABLE 1 PFOS and PFOA Water Quality Monitoring Results

C214116V1 - 01/18/2022

RESULTS OF ANALYSES OF WATER		VALIDATED DATA									
Bureau Veritas ID		RQM531	RQM536	RQM537	RQM533	RQM535	RQM534	RQM532			
Sampling Date		2022/01/18 09:15	2022/01/18 09:40	2022/01/18 09:40	2022/01/18 09:25	2022/01/18 09:36	2022/01/18 09:30	2022/01/18 09:20			
COC Number		N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	UNITS	**SANG-FB-01182022**	**SANG-INF-01182022**	**SANG-INF-01182022D**	**SANG-PBR1-01182022**	**SANG-PBG1-01182022**	**SANG-PBG2-01182022**	**SANG-EFF-01182022**	**DL**	**LOD**	**LOQ**
Perfluorinated Compounds											
Perfluorobutanoic acid (PFBA)	ng/L	1.4 U	23	20	6.7	18	1.4 U	20	0.67	1.4	2
Perfluoropentanoic acid (PFPeA)	ng/L	1.2 U	69	70	1.2 U	24	1.2 U	2.5	0.52	1.2	2
Perfluorohexanoic acid (PFHxA)	ng/L	1.4 U	57	57	1.4 U	12	1.4 U	1.4 U	0.7	1.4	2
Perfluoroheptanoic acid (PFHpA)	ng/L	1.2 U	25	26	1.2 U	3.6	1.2 U	1.2 U	0.51	1.2	2
Perfluorooctanoic acid (PFOA)	ng/L	1.2 U	26	27	1.2 U	2.6	1.2 U	1.2 U	0.49	1.2	2
Perfluorononanoic acid (PFNA)	ng/L	1.6 U	6.2	6.6	1.6 U	1.6 U	1.6 U	1.6 U	0.8	1.6	2
Perfluorodecanoic acid (PFDA)	ng/L	1.4 U	4.2	4.4	1.4 U	1.4 U	1.4 U	1.4 U	0.64	1.4	2
Perfluoroundecanoic acid (PFUnA)	ng/L	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.77	1.6	2
Perfluorododecanoic acid (PFDoA)	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.59	1.2	2
Perfluorotridecanoic acid (PFTRDA)	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.48	1.2	2
Perfluorotetradecanoic acid(PFTEDA)	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.37	1.2	2
Perfluorobutanesulfonic acid (PFBS)	ng/L	1.2 U	14	14	1.2 U	1.4 J	1.2 U	1.2 U	0.47	1.2	2
Perfluoropentanesulfonic acid PFPes	ng/L	1.6 U	17	16	1.6 U	1.2 J	1.6 U	1.6 U	0.73	1.6	2
Perfluorohexanesulfonic acid(PFHxS)	ng/L	1.2 U	79	81	1.2 U	4.7	1.2 U	1.2 U	0.53	1.2	2
Perfluoroheptanesulfonic acid PFHpS	ng/L	1.2 U	3.9	3.9	1.2 U	1.2 U	1.2 U	1.2 U	0.57	1.2	2
Perfluorooctanesulfonic acid (PFOS)	ng/L	1.2 U	200 (1)	210 (1)	1.2 U	9.8	0.56 J	1.2 U	4.3	12	20
Perfluorononanesulfonic acid (PFNS)	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.64	1.4	2
Perfluorodecanesulfonic acid (PFDS)	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.53	1.2	2
Perfluorooctane Sulfonamide (PFOSA)	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.81	2	4
MeFOSAA	ng/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	1.2	3	4
EtFOSAA	ng/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	1.4	3	4
4:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	1.1 J	1.2 J	1.6 U	1.6 U	1.6 U	1.6 U	0.69	1.6	4
6:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	74	75	1.6 U	4.8	1.6 U	1.6 U	0.59	1.6	4
8:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	18	18	1.6 U	0.83 J	1.6 U	1.6 U	0.75	1.6	4
Hexafluoropropyleneoxide dimer acid	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.85	2	4
4,8-Dioxa-3H-perfluorononanoic acid	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.31	1.2	4
9Cl-PF3ONS (F-53B Major)	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.56	2	4
11Cl-PF3OUdS (F-53B Minor)	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.52	2	4

Notes:

ng/L - nanograms per Liter or parts per trillion.
U - Undetected. Compound was analyzed for, but not detected.
J - Estimated result. Associated value may not be accurate or precise.
DL = Detection Limit
EFF = Effluent
FB= Field Blank
INF = Influent
LOD = Limit of Detection
LOQ = Limit of Quantitation
SANGB = Stewart Air National Guard Base
Sample SANG-FB-01182022 is a field blank.
Sample SANG-INF-01182022D is a field duplicate of SANG-INF-01182022.
Analytes highlighted in gray are the UCMR3 compounds.

Sample ports located in each of the 4 trains; A, B, C, D. such as: PBG1= post B train GAC unit 1.
PBR1 = post B train Resin 1
PBG1 = post B train GAC Unit 1
PBG2 = post B train GAC Unit 2
Effluent (EFF) = Treated water that has passed through the ISWTS
Influent (INF) = Untreated water from Recreational Pond
ISWTS = Interim Storm Water Treatment System

(1) Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was adjusted accordingly (10x). Some results reference different lab limits due to dilution.

TABLE 1 PFOS and PFOA Water Quality Monitoring Results

C220933V1 - 01/24/2022

RESULTS OF ANALYSES OF WATER **VALIDATED DATA**

Bureau Veritas ID		RRY963	RRY968	RRY969	RRY965	RRY967	RRY966	RRY964			
Sampling Date		2022/01/24 08:00	2022/01/24 08:35	2022/01/24 08:35	2022/01/24 08:15	2022/01/24 08:30	2022/01/24 08:22	2022/01/24 08:08			
COC Number		N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	UNITS	**SANG-FB-01242022**	**SANG-INF-01242022**	**SANG-INF-01242022D**	**SANG-PCR1-01242022**	**SANG-PCG1-01242022**	**SANG-PCG2-01242022**	**SANG-EFF-01242022**	**DL**	**LOD**	**LOQ**
Perfluorinated Compounds											
Perfluorobutanoic acid (PFBA)	ng/L	1.4 U	22	23	14	20	1.5 U	30	0.74	1.5	2.2
Perfluoropentanoic acid (PFPeA)	ng/L	1.2 U	81	84	1.4 J	22	1.3 U	4.3	0.57	1.3	2.2
Perfluorohexanoic acid (PFHxA)	ng/L	1.4 U	66	68	1.5 U	8.6	1.5 U	1.5 U	0.77	1.5	2.2
Perfluoroheptanoic acid (PFHpA)	ng/L	1.2 U	30	31	1.3 U	1.8 J	1.3 U	1.3 U	0.56	1.3	2.2
Perfluorooctanoic acid (PFOA)	ng/L	1.2 U	30	30	1.3 U	1.1 J	1.3 U	1.3 U	0.54	1.3	2.2
Perfluorononanoic acid (PFNA)	ng/L	1.6 U	6.7	6.9	1.8 U	1.8 U	1.8 U	1.8 U	0.88	1.8	2.2
Perfluorodecanoic acid (PFDA)	ng/L	1.4 U	4.3	4	1.5 U	1.5 U	1.5 U	1.5 U	0.7	1.5	2.2
Perfluoroundecanoic acid (PFUnA)	ng/L	1.6 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	0.85	1.8	2.2
Perfluorododecanoic acid (PFDoA)	ng/L	1.2 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	0.65	1.3	2.2
Perfluorotridecanoic acid (PFTRDA)	ng/L	1.2 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	0.53	1.3	2.2
Perfluorotetradecanoic acid(PFTEDA)	ng/L	1.2 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	0.41	1.3	2.2
Perfluorobutanesulfonic acid (PFBS)	ng/L	1.2 U	15	15	1.3 U	1.3 U	1.3 U	1.3 U	0.52	1.3	2.2
Perfluoropentanesulfonic acid PFPes	ng/L	1.6 U	18	17	1.8 U	1.8 U	1.8 U	1.8 U	0.8	1.8	2.2
Perfluorohexanesulfonic acid(PFHxS)	ng/L	1.2 U	89	94	1.3 U	1.6 J	1.3 U	1.3 U	0.58	1.3	2.2
Perfluoroheptanesulfonic acid PFHpS	ng/L	1.2 U	4.5	4.3	1.3 U	1.3 U	1.3 U	1.3 U	0.63	1.3	2.2
Perfluorooctanesulfonic acid (PFOS)	ng/L	1.2 U	190 (1)	230 (1)	1.3 U	2.8	1.3 U	1.3 U	4.3	12	20
Perfluorononanesulfonic acid (PFNS)	ng/L	1.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.7	1.5	2.2
Perfluorodecanesulfonic acid (PFDS)	ng/L	1.2 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	0.58	1.3	2.2
Perfluorooctane Sulfonamide (PFOSA)	ng/L	2.0 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	0.89	2.2	4.4
MeFOSAA	ng/L	3.0 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	1.3	3.3	4.4
EtFOSAA	ng/L	3.0 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	3.3 U	1.5	3.3	4.4
4:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	1.1 J	1.3 J	1.6 U	1.6 U	1.6 U	1.8 U	0.76	1.8	4.4
6:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	83	86	1.8 U	1.4 J	1.8 U	1.8 U	0.65	1.8	4.4
8:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	18	18	1.8 U	1.8 U	1.8 U	1.8 U	0.83	1.8	4.4
Hexafluoropropyleneoxide dimer acid	ng/L	2.0 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	0.94	2.2	4.4
4,8-Dioxa-3H-perfluorononanoic acid	ng/L	1.2 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	0.34	1.3	4.4
9Cl-PF3ONS (F-53B Major)	ng/L	2.0 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	0.62	2.2	4.4
11Cl-PF3OUdS (F-53B Minor)	ng/L	2.0 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	0.57	2.2	4.4

Notes:

ng/L - nanograms per Liter or parts per trillion.
U - Undetected. Compound was analyzed for, but not detected.
J - Estimated result. Associated value may not be accurate or precise.
DL = Detection Limit
EFF = Effluent
FB= Field Blank
INF = Influent
LOD = Limit of Detection
LOQ = Limit of Quantitation
SANGB = Stewart Air National Guard Base
Sample SANG-FB-01242022 is a field blank.
Sample SANG-INF-01242022D is a field duplicate of SANG-INF-01242022.
Analytes highlighted in gray are the UCMR3 compounds.

Sample ports located in each of the 4 trains; A, B, C, D. such as: PBG1= post B train GAC unit 1.
PCR1 = post C train Resin 1
PCG1 = post C train GAC Unit 1
PCG2 = post C train GAC Unit 2
Effluent (EFF) = Treated water that has passed through the ISWTS
Influent (INF) = Untreated water from Recreational Pond
ISWTS = Interim Storm Water Treatment System

(1) Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was adjusted accordingly (10x). Some results reference different lab limits due to dilution.

TABLE 1 PFOS and PFOA Water Quality Monitoring Results

C227717V1 - 01/02/2022

RESULTS OF ANALYSES OF WATER **VALIDATED DATA**

Bureau Veritas ID		RTL044	RTL049	RTL050	RTL046	RTL048	RTL047	RTL045			
Sampling Date		2022/02/01 08:00	2022/02/01 08:38	2022/02/01 08:38	2022/02/01 08:15	2022/02/01 08:30	2022/02/01 08:22	2022/02/01 08:07			
COC Number		N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	UNITS	**SANG-FB-02012022**	**SANG-INF-02012022**	**SANG-INF-02012022D**	**SANG-PDR1-02012022**	**SANG-PDG1-02012022**	**SANG-PDG2-02012022**	**SANG-EFF-02012022**	**DL**	**LOD**	**LOQ**
Perfluorinated Compounds											
Perfluorobutanoic acid (PFBA)	ng/L	1.4 U	35	35	25	27	1.3 J	28	0.67	1.4	2
Perfluoropentanoic acid (PFPeA)	ng/L	1.2 U	97	94	21	44	1.2 U	8.8	0.52	1.2	2
Perfluorohexanoic acid (PFHxA)	ng/L	1.4 U	79	78	4	27	1.4 U	0.79 J	0.7	1.4	2
Perfluoroheptanoic acid (PFHpA)	ng/L	1.2 U	35	35	0.74 J	9.4	1.2 U	1.2 U	0.51	1.2	2
Perfluorooctanoic acid (PFOA)	ng/L	1.2 U	35	34	0.53 J	7.7	1.2 U	1.2 U	0.49	1.2	2
Perfluorononanoic acid (PFNA)	ng/L	1.6 U	7.7	7.5	1.6 U	1.4 J	1.6 U	1.6 U	0.8	1.6	2
Perfluorodecanoic acid (PFDA)	ng/L	1.4 U	4.3	4.4	1.4 U	0.96 J	1.4 U	1.4 U	0.64	1.4	2
Perfluoroundecanoic acid (PFUnA)	ng/L	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.77	1.6	2
Perfluorododecanoic acid (PFDoA)	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.59	1.2	2
Perfluorotridecanoic acid (PFTRDA)	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.48	1.2	2
Perfluorotetradecanoic acid(PFTEDA)	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.37	1.2	2
Perfluorobutanesulfonic acid (PFBS)	ng/L	1.2 U	19	19	1.2 U	4.4	1.2 U	1.2 U	0.47	1.2	2
Perfluoropentanesulfonic acid PFPes	ng/L	1.6 U	22	21	1.6 U	3.6	1.6 U	1.6 U	0.73	1.6	2
Perfluorohexanesulfonic acid(PFHxS)	ng/L	1.2 U	130 (1)	120 (1)	1.2 U	18	1.2 U	1.2 U	5.3	12	20
Perfluoroheptanesulfonic acid PFHpS	ng/L	1.2 U	5.7	5.4	1.2 U	0.91 J	1.2 U	1.2 U	0.57	1.2	2
Perfluorooctanesulfonic acid (PFOS)	ng/L	1.2 U	280 (1)	290 (1)	1.2 U	38	1.2 U	1.2 U	4.3	12	20
Perfluorononanesulfonic acid (PFNS)	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.64	1.4	2
Perfluorodecanesulfonic acid (PFDS)	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.53	1.2	2
Perfluorooctane Sulfonamide (PFOSA)	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.81	2	4
MeFOSAA	ng/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	1.2	3	4
EtFOSAA	ng/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	1.4	3	4
4:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	2.0 J	1.7 J	1.6 U	1.6 U	1.6 U	1.6 U	0.69	1.6	4
6:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	110 (1)	99	1.2 J	16	1.6 U	1.6 U	0.59	1.6	4
8:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	18	18	1.6 U	2.2 J	1.6 U	1.6 U	0.75	1.6	4
Hexafluoropropyleneoxide dimer acid	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.85	2	4
4,8-Dioxa-3H-perfluorononanoic acid	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.31	1.2	4
9Cl-PF3ONS (F-53B Major)	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.56	2.0	4.0
11Cl-PF3OUdS (F-53B Minor)	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.52	2.0	4.0

Notes:

ng/L - nanograms per Liter or parts per trillion.
U - Undetected. Compound was analyzed for, but not detected.
J - Estimated result. Associated value may not be accurate or precise.
DL = Detection Limit
EFF = Effluent
FB= Field Blank
INF = Influent
LOD = Limit of Detection
LOQ = Limit of Quantitation
SANGB = Stewart Air National Guard Base
Sample SANG-FB-02012022 is a field blank.
Sample SANG-INF-02012022D is a field duplicate of SANG-INF-02012022.
Analytes highlighted in gray are the UCMR3 compounds.

Sample ports located in each of the 4 trains; A, B, C, D. such as: PBG1= post B train GAC unit 1.
PDR1 = post D train Resin 1
PDG1 = post D train GAC Unit 1
PDG2 = post D train GAC Unit 2
Effluent (EFF) = Treated water that has passed through the ISWTS
Influent (INF) = Untreated water from Recreational Pond
ISWTS = Interim Storm Water Treatment System

(1) Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was adjusted accordingly (10x). Some results reference different lab limits due to dilution.

TABLE 1 PFOS and PFOA Water Quality Monitoring Results

C234269 - 02/08/2022

RESULTS OF ANALYSES OF WATER **VALIDATED DATA**

Bureau Veritas ID		RUT647	RUT652	RUT653	RUT651	RUT650	RUT649	RUT648			
Sampling Date		2022/02/08 08:00	2022/02/08 08:30	2022/02/08 08:30	2022/02/08 08:27	2022/02/08 08:20	2022/02/08 08:12	2022/02/08 08:05			
COC Number		N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	UNITS	**SANG-FB-02082022**	**SANG-INF-02082022**	**SANG-INF-02082022D**	**SANG-PAG1-02082022**	**SANG-PAG2-02082022**	**SANG-PAR1-02082022**	**SANG-EFF-02082022**	**DL**	**LOD**	**LOQ**
Perfluorinated Compounds											
Perfluorobutanoic acid (PFBA)	ng/L	1.4 U	29	30	29	8.8	39	50	0.67	1.4	2
Perfluoropentanoic acid (PFPeA)	ng/L	1.2 U	90	91	53	2.8	7.6	23	0.52	1.2	2
Perfluorohexanoic acid (PFHxA)	ng/L	1.4 U	69	71	30	1.4 U	1.4 U	0.85 J	0.7	1.4	2
Perfluoroheptanoic acid (PFHpA)	ng/L	1.2 U	35	37	12	1.2 U	1.2 U	1.2 U	0.51	1.2	2
Perfluorooctanoic acid (PFOA)	ng/L	1.2 U	40	40	11	1.2 U	1.2 U	1.2 U	0.49	1.2	2
Perfluorononanoic acid (PFNA)	ng/L	1.6 U	9.6	10	2.4	1.6 U	1.6 U	1.6 U	0.8	1.6	2
Perfluorodecanoic acid (PFDA)	ng/L	1.4 U	9.3	9.4	1.6 J	1.4 U	1.4 U	1.4 U	0.64	1.4	2
Perfluoroundecanoic acid (PFUnA)	ng/L	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.77	1.6	2
Perfluorododecanoic acid (PFDoA)	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.59	1.2	2
Perfluorotridecanoic acid (PFTRDA)	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.48	1.2	2
Perfluorotetradecanoic acid(PFTEDA)	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.37	1.2	2
Perfluorobutanesulfonic acid (PFBS)	ng/L	1.2 U	11	12	3.6	1.2 U	1.2 U	1.2 U	0.47	1.2	2
Perfluoropentanesulfonic acid PFPes	ng/L	1.6 U	14	14	2.8	1.6 U	1.6 U	1.6 U	0.73	1.6	2
Perfluorohexanesulfonic acid(PFHxS)	ng/L	1.2 U	84	83	20	1.2 U	1.2 U	1.2 U	0.53	1.2	2
Perfluoroheptanesulfonic acid PFHpS	ng/L	1.2 U	3.3	3.2	1.2 U	1.2 U	1.2 U	1.2 U	0.57	1.2	2
Perfluorooctanesulfonic acid (PFOS)	ng/L	1.2 U	240 (1)	250 (1)	48	1.2 U	1.2 U	1.2 U	4.3	12	20
Perfluorononanesulfonic acid (PFNS)	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.64	1.4	2
Perfluorodecanesulfonic acid (PFDS)	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.53	1.2	2
Perfluorooctane Sulfonamide (PFOSA)	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.81	2	4
MeFOSAA	ng/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	1.2	3	4
EtFOSAA	ng/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	1.4	3	4
4:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	0.69 J	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.69	1.6	4
6:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	75	77	18	1.6 U	1.6 U	1.6 U	0.59	1.6	4
8:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	21	21	3.2 J	1.6 U	1.6 U	1.6 U	0.75	1.6	4
Hexafluoropropyleneoxide dimer acid	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.85	2	4
4,8-Dioxa-3H-perfluorononanoic acid	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.31	1.2	4
9Cl-PF3ONS (F-53B Major)	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.56	2	4
11Cl-PF3OUdS (F-53B Minor)	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.52	2	4

Notes:

ng/L - nanograms per Liter or parts per trillion.
U - Undetected. Compound was analyzed for, but not detected.
J - Estimated result. Associated value may not be accurate or precise.
DL = Detection Limit
EFF = Effluent
FB= Field Blank
INF = Influent
LOD = Limit of Detection
LOQ = Limit of Quantitation
SANGB = Stewart Air National Guard Base
Sample SANG-FB-02082022 is a field blank.
Sample SANG-INF-02082022D is a field duplicate of SANG-INF-02082022.
Analytes highlighted in gray are the UCMR3 compounds.

Sample ports located in each of the 4 trains; A, B, C, D. such as: PBG1= post B train GAC unit 1.
PAG1 = post A train GAC Unit 1
PAG2 = post A train GAC Unit 2
PAR1 = post A train Resin 1
Effluent (EFF) = Treated water that has passed through the ISWTS
Influent (INF) = Untreated water from Recreational Pond
ISWTS = Interim Storm Water Treatment System

(1) Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was adjusted accordingly (10x). Some results reference different lab limits due to dilution.

TABLE 1 PFOS and PFOA Water Quality Monitoring Results

C242914V1 - 02/16/2022

RESULTS OF ANALYSES OF WATER **VALIDATED DATA**

Bureau Veritas ID		RWP638	RWP643	RWP644	RWP642	RWP641	RWP640	RWP639			
Sampling Date		2022/02/16 08:30	2022/02/16 09:10	2022/02/16 09:10	2022/02/16 09:00	2022/02/16 08:52	2022/02/16 08:45	2022/02/16 08:38			
COC Number		N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	UNITS	**SANG-FB-02162022**	**SANG-INF-02162022**	**SANG-INF-02162022D**	**SANG-PBG1-02162022**	**SANG-PBG2-02162022**	**SANG-PBR1-02162022**	**SANG-EFF-02162022**	**DL**	**LOD**	**LOQ**
Perfluorinated Compounds											
Perfluorobutanoic acid (PFBA)	ng/L	1.4 U	29	29	0.78 J	6.0	35	38	0.67	1.4	2.0
Perfluoropentanoic acid (PFPeA)	ng/L	1.2 U	80	80	0.69 J	1.5 J	5.7	19	0.52	1.2	2.0
Perfluorohexanoic acid (PFHxA)	ng/L	1.4 U	62	62	1.4 U	1.4 U	1.4 U	1.0 J	0.70	1.4	2.0
Perfluoroheptanoic acid (PFHpA)	ng/L	1.2 U	35	34	1.2 U	1.2 U	1.2 U	1.2 U	0.51	1.2	2.0
Perfluorooctanoic acid (PFOA)	ng/L	1.2 U	34	34	1.2 U	1.2 U	1.2 U	1.2 U	0.49	1.2	2.0
Perfluorononanoic acid (PFNA)	ng/L	1.6 U	8.6	8.8	1.6 U	1.6 U	1.6 U	1.6 U	0.80	1.6	2.0
Perfluorodecanoic acid (PFDA)	ng/L	1.4 U	6.0	6.0	1.4 U	1.4 U	1.4 U	1.4 U	0.64	1.4	2.0
Perfluoroundecanoic acid (PFUnA)	ng/L	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.77	1.6	2.0
Perfluorododecanoic acid (PFDoA)	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.59	1.2	2.0
Perfluorotridecanoic acid (PFTRDA)	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.48	1.2	2.0
Perfluorotetradecanoic acid(PFTEDA)	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.37	1.2	2.0
Perfluorobutanesulfonic acid (PFBS)	ng/L	1.2 U	13	13	1.2 U	1.2 U	1.2 U	1.2 U	0.47	1.2	2.0
Perfluoropentanesulfonic acid PFPes	ng/L	1.6 U	16	15	1.6 U	1.6 U	1.6 U	1.6 U	0.73	1.6	2.0
Perfluorohexanesulfonic acid(PFHxS)	ng/L	1.2 U	85	87	0.73 J	1.2 U	1.2 U	1.2 U	0.53	1.2	2.0
Perfluoroheptanesulfonic acid PFHpS	ng/L	1.2 U	4.1	3.7	0.83 J	1.2 U	1.2 U	1.2 U	0.57	1.2	2.0
Perfluorooctanesulfonic acid (PFOS)	ng/L	1.2 U	230 (1)	220 (1)	15	0.62 J	1.2 U	1.2 U	4.3	12	20
Perfluorononanesulfonic acid (PFNS)	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.64	1.4	2.0
Perfluorodecanesulfonic acid (PFDS)	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.53	1.2	2.0
Perfluorooctane Sulfonamide (PFOSA)	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.81	2.0	4.0
MeFOSAA	ng/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	1.2	3.0	4.0
EtFOSAA	ng/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	1.4	3.0	4.0
4:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	1.3 J	1.4 J	1.6 U	1.6 U	1.6 U	1.6 U	0.69	1.6	4.0
6:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	73	70	1.6 U	1.6 U	1.6 U	1.6 U	0.59	1.6	4.0
8:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	20	20	1.6 U	1.6 U	1.6 U	1.6 U	0.75	1.6	4.0
Hexafluoropropyleneoxide dimer acid	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.85	2.0	4.0
4,8-Dioxa-3H-perfluorononanoic acid	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.31	1.2	4.0
9Cl-PF3ONS (F-53B Major)	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.56	2.0	4.0
11Cl-PF3OUdS (F-53B Minor)	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.52	2.0	4.0

Notes:

ng/L - nanograms per Liter or parts per trillion.
U - Undetected. Compound was analyzed for, but not detected.
J - Estimated result. Associated value may not be accurate or precise.
DL = Detection Limit
EFF = Effluent
FB= Field Blank
INF = Influent
LOD = Limit of Detection
LOQ = Limit of Quantitation
SANGB = Stewart Air National Guard Base
Sample SANG-FB-02162022 is a field blank.
Sample SANG-INF-02162022D is a field duplicate of SANG-INF-02162022.
Analytes highlighted in gray are the UCMR3 compounds.

Sample ports located in each of the 4 trains; A, B, C, D. such as: PBG1= post B train GAC unit 1.
PBG1 = post B train GAC Unit 1
PBG2 = post B train GAC Unit 2
PBR1 = post B train Resin 1
Effluent (EFF) = Treated water that has passed through the ISWTS
Influent (INF) = Untreated water from Recreational Pond
ISWTS = Interim Storm Water Treatment System

(1) Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was adjusted accordingly (10x). Some results reference different lab limits due to dilution.

TABLE 1 PFOS and PFOA Water Quality Monitoring Results

C247409V1 - 02/22/2022

RESULTS OF ANALYSES OF WATER **VALIDATED DATA**

Bureau Veritas ID		RXP356	RXP361	RXP362	RXP358	RXP360	RXP359	RXP357			
Sampling Date		2022/02/22 08:00	2022/02/22 08:40	2022/02/22 08:40	2022/02/22 08:18	2022/02/22 08:33	2022/02/22 08:25	2022/02/22 08:10			
COC Number		N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	UNITS	**SANG-FB-02222022**	**SANG-INF-02222022**	**SANG- INF-02222022D**	**SANG-PCR1-02222022**	**SANG-PCG1-02222022**	**SANG-PCG2-02222022**	**SANG-EFF-02222022**	**DL**	**LOD**	**LOQ**
Perfluorinated Compounds											
Perfluorobutanoic acid (PFBA)	ng/L	1.4 U	29	29	19	1.4 U	4.4	26	0.67	1.4	2.0
Perfluoropentanoic acid (PFPeA)	ng/L	1.2 U	80	81	7.8	1.2 U	1.0 J	17	0.52	1.2	2.0
Perfluorohexanoic acid (PFHxA)	ng/L	1.4 U	64	65	1.3 J	1.4 U	1.4 U	0.79 J	0.70	1.4	2.0
Perfluoroheptanoic acid (PFHpA)	ng/L	1.2 U	35	34	1.2 U	1.2 U	1.2 U	1.2 U	0.51	1.2	2.0
Perfluorooctanoic acid (PFOA)	ng/L	1.2 U	35	36	1.2 U	1.2 U	1.2 U	1.2 U	0.49	1.2	2.0
Perfluorononanoic acid (PFNA)	ng/L	1.6 U	8.9	8.9	1.6 U	1.6 U	1.6 U	1.6 U	0.80	1.6	2.0
Perfluorodecanoic acid (PFDA)	ng/L	1.4 U	6.0	6.2	1.4 U	1.4 U	1.4 U	1.4 U	0.64	1.4	2.0
Perfluoroundecanoic acid (PFUnA)	ng/L	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.77	1.6	2.0
Perfluorododecanoic acid (PFDoA)	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.59	1.2	2.0
Perfluorotridecanoic acid (PFTRDA)	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.48	1.2	2.0
Perfluorotetradecanoic acid(PFTEDA)	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.37	1.2	2.0
Perfluorobutanesulfonic acid (PFBS)	ng/L	1.2 U	12	13	1.2 U	1.2 U	1.2 U	1.2 U	0.47	1.2	2.0
Perfluoropentanesulfonic acid PFPes	ng/L	1.6 U	14	14	1.6 U	1.6 U	1.6 U	1.6 U	0.73	1.6	2.0
Perfluorohexanesulfonic acid(PFHxS)	ng/L	1.2 U	90	89	1.2 U	1.2 U	1.2 U	1.2 U	0.53	1.2	2.0
Perfluoroheptanesulfonic acid PFHpS	ng/L	1.2 U	4.0	3.8	1.2 U	1.2 U	1.2 U	1.2 U	0.57	1.2	2.0
Perfluorooctanesulfonic acid (PFOS)	ng/L	1.2 U	250 (1)	250 (1)	1.2 U	1.2 U	1.2 U	1.2 U	4.3	12	20
Perfluorononanesulfonic acid (PFNS)	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.64	1.4	2.0
Perfluorodecanesulfonic acid (PFDS)	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.53	1.2	2.0
Perfluorooctane Sulfonamide (PFOSA)	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.81	2.0	4.0
MeFOSAA	ng/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	1.2	3.0	4.0
EtFOSAA	ng/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	1.4	3.0	4.0
4:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	0.94 J	1.1 J	1.6 U	1.6 U	1.6 U	1.6 U	0.69	1.6	4.0
6:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	74	74	1.6 U	1.6 U	1.6 U	1.6 U	0.59	1.6	4.0
8:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	22	23	1.6 U	1.6 U	1.6 U	1.6 U	0.75	1.6	4.0
Hexafluoropropyleneoxide dimer acid	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.85	2.0	4.0
4,8-Dioxa-3H-perfluorononanoic acid	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.31	1.2	4.0
9Cl-PF3ONS (F-53B Major)	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.56	2.0	4.0
11Cl-PF3OUdS (F-53B Minor)	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.52	2.0	4.0

Notes:

ng/L - nanograms per Liter or parts per trillion.
U - Undetected. Compound was analyzed for, but not detected.
J - Estimated result. Associated value may not be accurate or precise.
DL = Detection Limit
EFF = Effluent
FB= Field Blank
INF = Influent
LOD = Limit of Detection
LOQ = Limit of Quantitation
SANGB = Stewart Air National Guard Base
Sample SANG-FB-02222022 is a field blank.
Sample SANG-INF-02222022D is a field duplicate of SANG-INF-02222022.
Analytes highlighted in gray are the UCMR3 compounds.

Sample ports located in each of the 4 trains; A, B, C, D. such as: PBG1= post B train GAC unit 1.
PCR1 = post C train Resin 1
PCG1 = post C train GAC Unit 1
PCG2 = post C train GAC Unit 2
Effluent (EFF) = Treated water that has passed through the ISWTS
Influent (INF) = Untreated water from Recreational Pond
ISWTS = Interim Storm Water Treatment System

(1) Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was adjusted accordingly (10x). Some results reference different lab limits due to dilution.

TABLE 1 PFOS and PFOA Water Quality Monitoring Results

C254945V1 - 01/03/2022

RESULTS OF ANALYSES OF WATER **VALIDATED DATA**

Bureau Veritas ID		RZG081	RZG086	RZG087	RZG083	RZG085	RZG084	RZG082			
Sampling Date		2022/03/01 08:00	2022/03/01 08:33	2022/03/01 08:33	2022/03/01 08:12	2022/03/01 08:27	2022/03/01 08:20	2022/03/01 08:05			
COC Number		N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	UNITS	**SANG-FB-03012022**	**SANG-INF-03012022**	**SANG-INF-03012022D**	**SANG-PDR1-03012022**	**SANG-PDG1-03012022**	**SANG-PDG2-03012022**	**SANG-EFF-03012022**	**DL**	**LOD**	**LOQ**
Perfluorinated Compounds											
Perfluorobutanoic acid (PFBA)	ng/L	1.4 U	20	24	9.5	1.4 U	1.6 J	19	0.67	1.4	2.0
Perfluoropentanoic acid (PFPeA)	ng/L	1.2 U	61	71	12	1.2 U	0.54 J	17	0.52	1.2	2.0
Perfluorohexanoic acid (PFHxA)	ng/L	1.4 U	49	57	3.2	1.4 U	1.4 U	1.7 J	0.70	1.4	2.0
Perfluoroheptanoic acid (PFHpA)	ng/L	1.2 U	24	28	0.88 J	1.2 U	1.2 U	0.61 J	0.51	1.2	2.0
Perfluorooctanoic acid (PFOA)	ng/L	1.2 U	26	30	1.2 U	1.2 U	1.2 U	1.2 U	0.49	1.2	2.0
Perfluorononanoic acid (PFNA)	ng/L	1.6 U	6.5	7.8	1.6 U	1.6 U	1.6 U	1.6 U	0.80	1.6	2.0
Perfluorodecanoic acid (PFDA)	ng/L	1.4 U	8.6	10	1.4 U	1.4 U	1.4 U	1.4 U	0.64	1.4	2.0
Perfluoroundecanoic acid (PFUnA)	ng/L	1.6 U	0.86 J	0.93 J	1.6 U	1.6 U	1.6 U	1.6 U	0.77	1.6	2.0
Perfluorododecanoic acid (PFDoA)	ng/L	1.2 U	0.95 J	1.2 J	1.2 U	1.2 U	1.2 U	1.2 U	0.59	1.2	2.0
Perfluorotridecanoic acid (PFTRDA)	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.48	1.2	2.0
Perfluorotetradecanoic acid(PFTEDA)	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.37	1.2	2.0
Perfluorobutanesulfonic acid (PFBS)	ng/L	1.2 U	10	11	1.2 U	1.2 U	1.2 U	1.2 U	0.47	1.2	2.0
Perfluoropentanesulfonic acid PFPes	ng/L	1.6 U	9.0	10	1.6 U	1.6 U	1.6 U	1.6 U	0.73	1.6	2.0
Perfluorohexanesulfonic acid(PFHxS)	ng/L	1.2 U	69	76	1.2 U	1.2 U	1.2 U	0.68 J	0.53	1.2	2.0
Perfluoroheptanesulfonic acid PFHpS	ng/L	1.2 U	2.5	2.8	1.2 U	1.2 U	1.2 U	1.2 U	0.57	1.2	2.0
Perfluorooctanesulfonic acid (PFOS)	ng/L	1.2 U	150 (1)	160 (1)	1.2 U	1.2 U	1.2 U	1.6 J	4.3	12	20
Perfluorononanesulfonic acid (PFNS)	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.64	1.4	2.0
Perfluorodecanesulfonic acid (PFDS)	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.53	1.2	2.0
Perfluorooctane Sulfonamide (PFOSA)	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.81	2.0	4.0
MeFOSAA	ng/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	1.2	3.0	4.0
EtFOSAA	ng/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	1.4	3.0	4.0
4:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	1.6 U	0.81 J	1.6 U	1.6 U	1.6 U	1.6 U	0.69	1.6	4.0
6:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	50	56	1.6 U	1.6 U	1.6 U	0.69 J	0.59	1.6	4.0
8:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	14	17	1.6 U	1.6 U	1.6 U	1.6 U	0.75	1.6	4.0
Hexafluoropropyleneoxide dimer acid	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.85	2.0	4.0
4,8-Dioxa-3H-perfluorononanoic acid	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.31	1.2	4.0
9Cl-PF3ONS (F-53B Major)	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.56	2.0	4.0
11Cl-PF3OUdS (F-53B Minor)	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.52	2.0	4.0

Notes:

ng/L - nanograms per Liter or parts per trillion.
U - Undetected. Compound was analyzed for, but not detected.
J - Estimated result. Associated value may not be accurate or precise.
DL = Detection Limit
EFF = Effluent
FB= Field Blank
INF = Influent
LOD = Limit of Detection
LOQ = Limit of Quantitation
SANGB = Stewart Air National Guard Base
Sample SANG-FB-03012022 is a field blank.
Sample SANG-INF-03012022D is a field duplicate of SANG-INF-03012022.
Analytes highlighted in gray are the UCMR3 compounds.

Sample ports located in each of the 4 trains; A, B, C, D. such a Sample ports located in each of the 4 trains; A, B, C, D. such as: PBG1= post B train GAC unit 1.
PDR1 = post D train Resin 1
PDG1 = post D train GAC Unit 1
PDG2 = post D train GAC Unit 2
Effluent (EFF) = Treated water that has passed through the ISWTS
Influent (INF) = Untreated water from Recreational Pond
ISWTS = Interim Storm Water Treatment System

(1) Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was adjusted accordingly (10x). Some results reference different lab limits due to dilution.

TABLE 1 PFOS and PFOA Water Quality Monitoring Results

C261855V1 - 03/08/2022

RESULTS OF ANALYSES OF WATER **VALIDATED DATA**

Bureau Veritas ID		SAT599	SAT604	SAT605	SAT601	SAT603	SAT602	SAT600			
Sampling Date		2022/03/08 08:00	2022/03/08 08:35	2022/03/08 08:35	2022/03/08 08:15	2022/03/08 08:30	2022/03/08 08:22	2022/03/08 08:08			
COC Number		N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	UNITS	**SANG-FB-03082022**	**SANG-INF-03082022**	**SANG-INF-03082022D**	**SANG-PAR1-03082022**	**SANG-PAG1-03082022**	**SANG-PAG203082022**	**SANG-EFF-03082022**	**DL**	**LOD**	**LOQ**
Perfluorinated Compounds											
Perfluorobutanoic acid (PFBA)	ng/L	1.4 U	19	19	10	1.5 U	8.8	18	0.74	1.5	2.2
Perfluoropentanoic acid (PFPeA)	ng/L	1.2 U	54	53	18	1.3 U	15	19	0.57	1.3	2.2
Perfluorohexanoic acid (PFHxA)	ng/L	1.4 U	44	45	11	1.5 U	11	2.2	0.77	1.5	2.2
Perfluoroheptanoic acid (PFHpA)	ng/L	1.2 U	23	23	4.3	1.3 U	4.9	0.88 J	0.56	1.3	2.2
Perfluorooctanoic acid (PFOA)	ng/L	1.2 U	26	26	4.0	1.3 U	5.0	0.69 J	0.54	1.3	2.2
Perfluorononanoic acid (PFNA)	ng/L	1.6 U	6.3	6.3	1.0 J	1.8 U	1.3 J	1.8 U	0.88	1.8	2.2
Perfluorodecanoic acid (PFDA)	ng/L	1.4 U	5.6	5.4	0.77 J	1.5 U	1.1 J	1.5 U	0.70	1.5	2.2
Perfluoroundecanoic acid (PFUnA)	ng/L	1.6 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	0.85	1.8	2.2
Perfluorododecanoic acid (PFDoA)	ng/L	1.2 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	0.65	1.3	2.2
Perfluorotridecanoic acid (PFTRDA)	ng/L	1.2 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	0.53	1.3	2.2
Perfluorotetradecanoic acid(PFTEDA)	ng/L	1.2 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	0.41	1.3	2.2
Perfluorobutanesulfonic acid (PFBS)	ng/L	1.2 U	10	10	1.4 J	1.3 U	1.8 J	1.3 U	0.52	1.3	2.2
Perfluoropentanesulfonic acid PFPes	ng/L	1.6 U	9.5	9.4	0.82 J	1.8 U	1.4 J	1.8 U	0.80	1.8	2.2
Perfluorohexanesulfonic acid(PFHxS)	ng/L	1.2 U	69	68	6.8	1.3 U	9.9	1.1 J	0.58	1.3	2.2
Perfluoroheptanesulfonic acid PFHpS	ng/L	1.2 U	2.9	2.9	1.3 U	1.3 U	1.3 U	1.3 U	0.63	1.3	2.2
Perfluorooctanesulfonic acid (PFOS)	ng/L	1.2 U	150 (1)	160 (1)	15	1.3 U	24	2.3	4.3	12	20
Perfluorononanesulfonic acid (PFNS)	ng/L	1.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.70	1.5	2.2
Perfluorodecanesulfonic acid (PFDS)	ng/L	1.2 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	0.58	1.3	2.2
Perfluorooctane Sulfonamide (PFOSA)	ng/L	2.0 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	0.89	2.2	4.4
MeFOSAA	ng/L	3.0 U	3.3 U	3.3 U	3.3 U	3.3 U	1.8 J	3.3 U	1.3	3.3	4.4
EtFOSAA	ng/L	3.0 U	3.3 U	3.3 U	3.3 U	3.3 U	2.1 J	3.3 U	1.5	3.3	4.4
4:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	0.92 J (2)	0.83 J	1.8 U	1.8 U	1.8 U	1.8 U	0.76	1.8	4.4
6:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	50	49	5.5	1.8 U	7.8	0.86 J	0.65	1.8	4.4
8:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	14	14	0.99 J	1.8 U	1.6 J	1.8 U	0.83	1.8	4.4
Hexafluoropropyleneoxide dimer acid	ng/L	2.0 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	0.94	2.2	4.4
4,8-Dioxa-3H-perfluorononanoic acid	ng/L	1.2 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	1.3 U	0.34	1.3	4.4
9Cl-PF3ONS (F-53B Major)	ng/L	2.0 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	0.62	2.2	4.4
11Cl-PF3OUdS (F-53B Minor)	ng/L	2.0 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	2.2 U	0.57	2.2	4.4

Notes:

ng/L - nanograms per Liter or parts per trillion.
U - Undetected. Compound was analyzed for, but not detected.
J - Estimated result. Associated value may not be accurate or precise.
DL = Detection Limit
EFF = Effluent
FB= Field Blank
INF = Influent
LOD = Limit of Detection
LOQ = Limit of Quantitation
SANGB = Stewart Air National Guard Base
Sample SANG-FB-03082022 is a field blank.
Sample SANG-INF-03082022D is a field duplicate of SANG-INF-03082022.
Analytes highlighted in gray are the UCMR3 compounds.

Sample ports located in each of the 4 trains; A, B, C, D. such as: PBG1= post B train GAC unit 1.
PAR1 = post A train Resin 1
PAG1 = post A train GAC Unit 1
PAG2 = post A train GAC Unit 2
Effluent (EFF) = Treated water that has passed through the ISWTS
Influent (INF) = Untreated water from Recreational Pond
ISWTS = Interim Storm Water Treatment System

(1) Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was adjusted accordingly (10x). Some results reference different lab limits due to dilution.

TABLE 1 PFOS and PFOA Water Quality Monitoring Results

C270588V1 - 03/15/2022

RESULTS OF ANALYSES OF WATER **VALIDATED DATA**

Bureau Veritas ID		SCS631	SCS636	SCS637	SCS635	SCS634	SCS633	SCS632			
Sampling Date		2022/03/15 08:00	2022/03/15 08:38	2022/03/15 08:38	2022/03/15 08:30	2022/03/15 08:22	2022/03/15 08:15	2022/03/15 08:08			
COC Number		N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	UNITS	**SANG-FB-03152022**	**SANG-INF-03152022**	**SANG-INF-03152022D**	**SANG-PBG1-03152022**	**SANG-PBG2-03152022**	**SANG-PBR1-03152022**	**SANG-EFF-03152022**	**DL**	**LOD**	**LOQ**
Perfluorinated Compounds											
Perfluorobutanoic acid (PFBA)	ng/L	1.4 U	18	18	1.4 U	1.4 U	24	36	0.67	1.4	2.0
Perfluoropentanoic acid (PFPeA)	ng/L	1.2 U	50	52	1.2 U	1.2 U	16	76	0.52	1.2	2.0
Perfluorohexanoic acid (PFHxA)	ng/L	1.4 U	42	44	1.4 U	1.4 U	3	20	0.70	1.4	2.0
Perfluoroheptanoic acid (PFHpA)	ng/L	1.2 U	22	22	1.2 U	1.2 U	1.2 U	0.53 J	0.51	1.2	2.0
Perfluorooctanoic acid (PFOA)	ng/L	1.2 U	25	24	1.2 U	1.2 U	1.2 U	0.54 J	0.49	1.2	2.0
Perfluorononanoic acid (PFNA)	ng/L	1.6 U	6.2	6.2	1.6 U	1.6 U	1.6 U	1.6 U	0.80	1.6	2.0
Perfluorodecanoic acid (PFDA)	ng/L	1.4 U	6.1	6.2	1.4 U	1.4 U	1.4 U	1.4 U	0.64	1.4	2.0
Perfluoroundecanoic acid (PFUnA)	ng/L	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.77	1.6	2.0
Perfluorododecanoic acid (PFDoA)	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.59	1.2	2.0
Perfluorotridecanoic acid (PFTRDA)	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.48	1.2	2.0
Perfluorotetradecanoic acid(PFTEDA)	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.37	1.2	2.0
Perfluorobutanesulfonic acid (PFBS)	ng/L	1.2 U	9.7	9.9	1.2 U	1.2 U	1.2 U	1.2 U	0.47	1.2	2.0
Perfluoropentanesulfonic acid PFPes	ng/L	1.6 U	9.9	11	1.6 U	1.6 U	1.6 U	1.6 U	0.73	1.6	2.0
Perfluorohexanesulfonic acid(PFHxS)	ng/L	1.2 U	66	69	1.2 U	1.2 U	1.2 U	1.2 U	0.53	1.2	2.0
Perfluoroheptanesulfonic acid PFHpS	ng/L	1.2 U	2.6	2.8	1.2 U	1.2 U	1.2 U	1.2 U	0.57	1.2	2.0
Perfluorooctanesulfonic acid (PFOS)	ng/L	1.2 U	180 (1)	180 (1)	1.2 U	1.2 U	1.2 U	1.2 U	4.3	12	20
Perfluorononanesulfonic acid (PFNS)	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.64	1.4	2.0
Perfluorodecanesulfonic acid (PFDS)	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.53	1.2	2.0
Perfluorooctane Sulfonamide (PFOSA)	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.81	2.0	4.0
MeFOSAA	ng/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	1.2	3.0	4.0
EtFOSAA	ng/L	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	1.4	3.0	4.0
4:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.69	1.6	4.0
6:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	48	49	1.6 U	1.6 U	1.6 U	0.98 J	0.59	1.6	4.0
8:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	15	14	1.6 U	1.6 U	1.6 U	1.6 U	0.75	1.6	4.0
Hexafluoropropyleneoxide dimer acid	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.85	2.0	4.0
4,8-Dioxa-3H-perfluorononanoic acid	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.31	1.2	4.0
9Cl-PF3ONS (F-53B Major)	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.56	2.0	4.0
11Cl-PF3OUdS (F-53B Minor)	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.52	2.0	4.0

Notes:

ng/L - nanograms per Liter or parts per trillion.
U - Undetected. Compound was analyzed for, but not detected.
J - Estimated result. Associated value may not be accurate or precise.
DL = Detection Limit
EFF = Effluent
FB= Field Blank
INF = Influent
LOD = Limit of Detection
LOQ = Limit of Quantitation
SANGB = Stewart Air National Guard Base
Sample SANG-FB-03152022 is a field blank.
Sample SANG-INF-03152022D is a field duplicate of SANG-INF-03152022.
Analytes highlighted in gray are the UCMR3 compounds.

Sample ports located in each of the 4 trains; A, B, C, D. such as: PBG1= post B train GAC unit 1.
PBG1 = post B train GAC Unit 1
PBG2 = post B train GAC Unit 2
PBR1 = post B train Resin 1
Effluent (EFF) = Treated water that has passed through the ISWTS
Influent (INF) = Untreated water from Recreational Pond
ISWTS = Interim Storm Water Treatment System

(1) Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was adjusted accordingly (10x). Some results reference different lab limits due to dilution.

TABLE 1 PFOS and PFOA Water Quality Monitoring Results

C276205V1 - 3/22/2022

RESULTS OF ANALYSES OF WATER **VALIDATED DATA**

Bureau Veritas ID		SDY453	SDY458	SDY459	SDY455	SDY457	SDY456	SDY454			
Sampling Date		2022/03/22 07:55	2022/03/22 08:30	2022/03/22 08:30	2022/03/22 08:08	2022/03/22 08:22	2022/03/22 08:15	2022/03/22 08:00			
COC Number		N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	UNITS	**SANG-FB-03222022**	**SANG-INF-03222022**	**SANG-INF-03222022D**	**SANG-PCR1-03222022**	**SANG-PCG1-03222022**	**SANG-PCG2-03222022**	**SANG-EFF-03222022**	**DL**	**LOD**	**LOQ**
Perfluorinated Compounds											
Perfluorobutanoic acid (PFBA)	ng/L	1.4 U	23	21	19	1.4 U	1.4 U	18	0.77	1.6	2.3
Perfluoropentanoic acid (PFPeA)	ng/L	1.2 U	62	61	46	1.2 U	1.2 U	34	0.52	1.2	2.0
Perfluorohexanoic acid (PFHxA)	ng/L	1.4 U	60	57	9.2	1.4 U	1.4 U	9.2	0.81	1.6	2.3
Perfluoroheptanoic acid (PFHpA)	ng/L	1.2 U	31	28	1.2 U	1.2 U	1.2 U	1.2 U	0.59	1.4	2.3
Perfluorooctanoic acid (PFOA)	ng/L	1.2 U	32	31	1.2 U	1.2 U	1.2 U	1.2 U	0.56	1.4	2.3
Perfluorononanoic acid (PFNA)	ng/L	1.6 U	8.3	7.7	1.6 U	1.6 U	1.6 U	1.6 U	0.92	1.8	2.3
Perfluorodecanoic acid (PFDA)	ng/L	1.4 U	6.8	5.8	1.4 U	1.4 U	1.4 U	1.4 U	0.74	1.6	2.3
Perfluoroundecanoic acid (PFUnA)	ng/L	1.6 U	2.2 U	1.8 U	1.6 U	1.6 U	1.6 U	1.6 U	0.89	1.8	2.3
Perfluorododecanoic acid (PFDoA)	ng/L	1.2 U	1.7 U	1.4 U	1.2 U	1.2 U	1.2 U	1.2 U	0.68	1.4	2.3
Perfluorotridecanoic acid (PFTRDA)	ng/L	1.2 U	1.7 U	1.4 U	1.2 U	1.2 U	1.2 U	1.2 U	0.55	1.4	2.3
Perfluorotetradecanoic acid(PFTEDA)	ng/L	1.2 U	1.7 U	1.4 U	1.2 U	1.2 U	1.2 U	1.2 U	0.43	1.4	2.3
Perfluorobutanesulfonic acid (PFBS)	ng/L	1.2 U	12	11	1.2 U	1.2 U	1.2 U	1.2 U	0.54	1.4	2.3
Perfluoropentanesulfonic acid PFPes	ng/L	1.6 U	12	12	1.6 U	1.6 U	1.6 U	1.6 U	0.73	1.6	2.0
Perfluorohexanesulfonic acid(PFHxS)	ng/L	1.2 U	89	83	1.2 U	1.2 U	1.2 U	1.2 U	0.61	1.4	2.3
Perfluoroheptanesulfonic acid PFHpS	ng/L	1.2 U	3.6	3.7	1.2 U	1.2 U	1.2 U	1.2 U	0.66	1.4	2.3
Perfluorooctanesulfonic acid (PFOS)	ng/L	1.2 U	230 (1)	210 (1)	1.2 U	1.2 U	1.2 U	1.2 U	4.3	12	20
Perfluorononanesulfonic acid (PFNS)	ng/L	1.4 U	2.0 U	1.6 U	1.4 U	1.4 U	1.4 U	1.4 U	0.74	1.6	2.3
Perfluorodecanesulfonic acid (PFDS)	ng/L	1.2 U	1.7 U	1.4 U	1.2 U	1.2 U	1.2 U	1.2 U	0.61	1.4	2.3
Perfluorooctane Sulfonamide (PFOSA)	ng/L	2.0 U	2.8 U	2.3 U	2.0 U	2.0 U	2.0 U	2.0 U	0.93	2.3	4.5
MeFOSAA	ng/L	3.0 U	4.2 U	3.5 U	3.0 U	3.0 U	3.0 U	3.0 U	1.4	3.5	4.5
EtFOSAA	ng/L	3.0 U	4.2 U	3.5 U	3.0 U	3.0 U	3.0 U	3.0 U	1.6	3.5	4.5
4:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	1.0 J	1.8 U	1.6 U	1.6 U	1.6 U	1.6 U	0.79	1.8	4.5
6:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	68	62	1.6 U	1.6 U	1.6 U	1.6 U	0.68	1.8	4.5
8:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	18	17	1.6 U	1.6 U	1.6 U	1.6 U	0.86	1.8	4.5
Hexafluoropropyleneoxide dimer acid	ng/L	2.0 U	2.8 U	2.3 U	2.0 U	2.0 U	2.0 U	2.0 U	0.98	2.3	4.5
4,8-Dioxa-3H-perfluorononanoic acid	ng/L	1.2 U	1.7 U	1.4 U	1.2 U	1.2 U	1.2 U	1.2 U	0.36	1.4	4.5
9Cl-PF3ONS (F-53B Major)	ng/L	2.0 U	2.8 U	2.3 U	2.0 U	2.0 U	2.0 U	2.0 U	0.64	2.3	4.5
11Cl-PF3OUdS (F-53B Minor)	ng/L	2.0 U	2.8 U	2.3 U	2.0 U	2.0 U	2.0 U	2.0 U	0.60	2.3	4.5

Notes:

ng/L - nanograms per Liter or parts per trillion.
U - Undetected. Compound was analyzed for, but not detected.
J - Estimated result. Associated value may not be accurate or precise.
DL = Detection Limit
EFF = Effluent
FB= Field Blank
INF = Influent
LOD = Limit of Detection
LOQ = Limit of Quantitation
SANGB = Stewart Air National Guard Base
Sample SANG-FB-03222022 is a field blank.
Sample SANG-INF-03222022D is a field duplicate of SANG-INF-03222022.
Analytes highlighted in gray are the UCMR3 compounds.

Sample ports located in each of the 4 trains; A, B, C, D. such as: PBG1= post B train GAC unit 1.
PCR1 = post C train Resin 1
PCG1 = post C train GAC Unit 1
PCG2 = post C train GAC Unit 2
Effluent (EFF) = Treated water that has passed through the ISWTS
Influent (INF) = Untreated water from Recreational Pond
ISWTS = Interim Storm Water Treatment System

(1) Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was adjusted accordingly (10x). Some results reference different lab limits due to dilution.

TABLE 1 PFOS and PFOA Water Quality Monitoring Results

283166V1 - 3/29/2022

RESULTS OF ANALYSES OF WATER **VALIDATED DATA**

Bureau Veritas ID		SFN385	SFN390	SFN391	SFN387	SFN389	SFN388	SFN386			
Sampling Date		2022/03/29 07:45	2022/03/29 08:15	2022/03/29 08:15	2022/03/29 08:00	2022/03/29 08:12	2022/03/29 08:06	2022/03/29 07:50			
COC Number		N/A	N/A	N/A	N/A	N/A	N/A	N/A			
	UNITS	**SANG-FB-03292022**	**SANG-INF-03292022**	**SANG-INF-03292022D**	**SANG-PDR1-03292022**	**SANG-PDG1-03292022**	**SANG-PDG2-03292022**	**SANG-EFF-03292022**	**DL**	**LOD**	**LOQ**
Perfluorinated Compounds											
Perfluorobutanoic acid (PFBA)	ng/L	1.4 U	26	27	19	1.4 U	1.4 U	18	0.67	1.4	2.0
Perfluoropentanoic acid (PFPeA)	ng/L	1.2 U	78	81	49	1.2 U	1.2 U	35	0.52	1.2	2.0
Perfluorohexanoic acid (PFHxA)	ng/L	1.4 U	64	65	12	1.4 U	1.4 U	9.0	0.70	1.4	2.0
Perfluoroheptanoic acid (PFHpA)	ng/L	1.2 U	30	32	1.2 U	1.2 U	1.2 U	1.2 U	0.51	1.2	2.0
Perfluorooctanoic acid (PFOA)	ng/L	1.2 U	34	36	1.2 U	1.2 U	1.2 U	1.2 U	0.49	1.2	2.0
Perfluorononanoic acid (PFNA)	ng/L	1.6 U	8.8	9.0	1.6 U	1.6 U	1.6 U	1.6 U	0.80	1.6	2.0
Perfluorodecanoic acid (PFDA)	ng/L	1.4 U	6.8	7.2	1.4 U	1.4 U	1.4 U	1.4 U	0.64	1.4	2.0
Perfluoroundecanoic acid (PFUnA)	ng/L	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	1.6 U	0.77	1.6	2.0
Perfluorododecanoic acid (PFDoA)	ng/L	0.59 J	1.2 U	1.2 U	1.2 U	0.66 J	1.2 U	1.2 U	0.59	1.2	2.0
Perfluorotridecanoic acid (PFTRDA)	ng/L	0.50 J	1.2 U	1.2 U	1.2 U	0.55 J	1.2 U	1.2 U	0.48	1.2	2.0
Perfluorotetradecanoic acid(PFTEDA)	ng/L	0.39 J	1.2 U	1.2 U	1.2 U	0.42 J	1.2 U	1.2 U	0.37	1.2	2.0
Perfluorobutanesulfonic acid (PFBS)	ng/L	1.2 U	14	14	1.2 U	1.2 U	1.2 U	1.2 U	0.47	1.2	2.0
Perfluoropentanesulfonic acid PFPes	ng/L	1.6 U	18	19	1.6 U	1.6 U	1.6 U	1.6 U	0.73	1.6	2.0
Perfluorohexanesulfonic acid(PFHxS)	ng/L	1.2 U	100 (1)	100 (1)	1.2 U	1.2 U	1.2 U	1.2 U	5.3	12	20
Perfluoroheptanesulfonic acid PFHpS	ng/L	1.2 U	4.1	4.2	1.2 U	1.2 U	1.2 U	1.2 U	0.57	1.2	2.0
Perfluorooctanesulfonic acid (PFOS)	ng/L	1.2 U	230 (1)	240 (1)	1.2 U	1.2 U	1.2 U	1.2 U	4.3	12	20
Perfluorononanesulfonic acid (PFNS)	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.64	1.4	2.0
Perfluorodecanesulfonic acid (PFDS)	ng/L	0.56 J	1.2 U	1.2 U	1.2 U	0.55 J	1.2 U	1.2 U	0.53	1.2	2.0
Perfluorooctane Sulfonamide (PFOSA)	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.81	2.0	4.0
MeFOSAA	ng/L	1.3 J	3.0 U	3.0 U	3.0 U	1.3 J	3.0 U	3.0 U	1.2	3.0	4.0
EtFOSAA	ng/L	1.4 J	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	3.0 U	1.4	3.0	4.0
4:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	0.87 J	1.2 J+	1.6 U	1.6 U	1.6 U	1.6 U	0.69	1.6	4.0
6:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	72	65 J+	1.6 U	1.6 U	1.6 U	1.6 U	0.59	1.6	4.0
8:2 Fluorotelomer sulfonic acid	ng/L	1.6 U	18 J+	17 J+	1.6 U	1.6 U	1.6 U	1.6 U	0.75	1.6	4.0
Hexafluoropropyleneoxide dimer acid	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.85	2.0	4.0
4,8-Dioxa-3H-perfluorononanoic acid	ng/L	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	0.31	1.2	4.0
9Cl-PF3ONS (F-53B Major)	ng/L	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	0.56	2.0	4.0
11Cl-PF3OUdS (F-53B Minor)	ng/L	0.79 J	2.0 U	2.0 U	2.0 U	0.70 J	0.53 J	2.0 U	0.52	2.0	4.0

Notes:

ng/L - nanograms per Liter or parts per trillion.
U - Undetected. Compound was analyzed for, but not detected.
J - Estimated result. Associated value may not be accurate or precise.
DL = Detection Limit
EFF = Effluent
FB= Field Blank
INF = Influent
LOD = Limit of Detection
LOQ = Limit of Quantitation
SANGB = Stewart Air National Guard Base
Sample SANG-FB-03292022 is a field blank.
Sample SANG-INF-03292022D is a field duplicate of SANG-INF-03292022.
Analytes highlighted in gray are the UCMR3 compounds.

Sample ports located in each of the 4 trains; A, B, C, D. such as: PBG1= post B train GAC unit 1.
PDR1 = post D train Resin 1
PDG1 = post D train GAC Unit 1
PDG2 = post D train GAC Unit 2
Effluent (EFF) = Treated water that has passed through the ISWTS
Influent (INF) = Untreated water from Recreational Pond
ISWTS = Interim Storm Water Treatment System

(1) Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was adjusted accordingly (10x). Some results reference different lab limits due to dilution.

TABLE 2 - OTHER WATER QUALITY MONITORING RESULTS

Bristol ENVIRONMENTAL SOLUTIONS, LLC

Glycols				
Sample Parameter	**Sampling Date**	**Influent (mg/L)**	**GAC2 Effluent (mg/L)**	**Effluent (mg/L)**
Diethylene glycol	2/22/2022	<52	<52	<52
Ethylene glycol		<10	<10	<10
Propylene glycol		<10	<10	<10
Triethylene Glycol		<54	<54	<54

Total Organic Carbon (TOC)				
Sample Parameter	**Sampling Date**	**Influent (mg/L)**	**GAC2 Effluent (mg/L)**	**Effluent (mg/L)**
TOC	2/22/2022	4.70	1.10	1.40

TABLE 3 - PREVENTIVE MAINTENANCE

Date	Primary Bag Filter Change and Type of Filters Installed	Secondary Bag Filter Change and Type of Filters Installed	Treatment Process Backwashed	Sand Filter Cleaning	Media Change Out	Resin Vessel Skimming
1/3/2022		10 Micron Regular				
1/4/2022		10 Micron Pleated	Primary Carbon vessels A, B, C, & D			
1/5/2022				Fine Sand Filters 5A/5B		
1/6/2022		10 Micron Regular	Secondary Carbon vessels A, B, C, & D			
1/7/2022	25 Micron Pleated					
1/10/2022		10 Micron Pleated	Primary Carbon vessels A, B, C, & D			
1/12/2022				Coarse Sand Filters 1A/1B		
1/13/2022		10 Micron Regular	Primary Carbon vessels A, B, C, & D			
1/14/2022	25 Micron Pleated		Primary Carbon vessels A, B, C, & D			
1/17/2022		10 Micron Pleated	Primary Carbon vessels A, B, C, & D			
1/19/2022			Primary Carbon vessels A, B, C, & D			
1/20/2022			Secondary Carbon vessels A, B, C, & D	Coarse Sand Filters 2A/2B		
1/21/2022	25 Micron Pleated					
1/24/2022			Primary Carbon vessels A, B, C, & D			
1/25/2022	25 Micron Regular	10 Micron Pleated	Primary Carbon vessels A, B, C, & D			
1/26/2022			Primary Carbon vessels A, B, C, & D			
1/28/2022	25 Micron Pleated		Secondary Carbon vessels A, B, C, & D			

TABLE 3 - PREVENTIVE MAINTENANCE

Date	Primary Bag Filter Change and Type of Filters Installed	Secondary Bag Filter Change and Type of Filters Installed	Treatment Process Backwashed	Sand Filter Cleaning	Media Change Out	Resin Vessel Skimming
1/31/2022		10 Micron Pleated				
2/1/2022			Primary Carbon vessels A, B, C, & D			
2/2/2022	25 Micron Regular					Skimmed approximately 2-3" off each Resin vessels
2/3/2022	25 Micron Pleated		Primary Carbon vessels A, B, C, & D			
2/7/2022		10 Micron Pleated	Primary Carbon vessels A, B, C, & D			
2/8/2022			Primary Carbon vessels A, B, C, & D			
2/9/2022			Secondary Carbon vessels A, B, C, & D			
2/10/2022			Primary Carbon vessels A, B, C, & D			
2/15/2022	25 Micron Regular	10 Micron Pleated	Primary Carbon vessels A, B, C, & D		Replaced Media in All four Primary GAC vessels (A1, B1, C1 and D1) and put	
2/16/2022			Secondary Carbon vessels A, B, C, & D			
2/17/2022				Fine Sand Filters 3A/3B and 4A/4B		
2/18/2022	25 Micron Pleated					
2/21/2022		10 Micron Pleated	Primary Carbon vessels A, B, C, & D			
2/22/2022			Secondary Carbon vessels A, B, C, & D			
2/23/2022						Skimmed approximately 2-3" off each Resin vessels
2/24/2022	25 Micron Pleated					

TABLE 3 - PREVENTIVE MAINTENANCE

Date	Primary Bag Filter Change and Type of Filters Installed	Secondary Bag Filter Change and Type of Filters Installed	Treatment Process Backwashed	Sand Filter Cleaning	Media Change Out	Resin Vessel Skimming
2/28/2022		10 Micron Regular	Primary Carbon vessels A, B, C, & D			
3/1/2022	25 Micron Regular					
3/2/2022			Secondary Carbon vessels A, B, C, & D			
3/3/2022			Primary Carbon vessels A, B, C, & D			
3/4/2022	25 Micron Pleated					
3/7/2022		10 Micron Pleated	Primary Carbon vessels A, B, C, & D			
3/8/2022			Secondary Carbon vessels A, B, C, & D			
3/9/2022		10 Micron Pleated				
3/10/2022			Secondary Carbon Vessel B		Secondary Carbon and Resin in Train B	
3/11/2022			Secondary Carbon vessels A & C		Secondary Carbon and Resin in Trains A and C	
3/14/2022		10 Micron Pleated	Secondary Carbon Vessel D		Secondary Carbon and Resin in Train D	
3/15/2022			Primary Carbon vessels A, B, C, & D			
3/16/2022	25 Micron Regular					
3/17/2022		10 Micron Regular	Primary Carbon vessels A, B, C, & D			
3/18/2022	25 Micron Pleated					
3/21/2022		10 Micron Pleated	Primary Carbon vessels A, B, C, & D			
3/22/2022			Secondary Carbon vessels A, B, C, & D			

TABLE 3 - PREVENTIVE MAINTENANCE

Date	Primary Bag Filter Change and Type of Filters Installed	Secondary Bag Filter Change and Type of Filters Installed	Treatment Process Backwashed	Sand Filter Cleaning	Media Change Out	Resin Vessel Skimming
3/23/2022		10 Micron Pleated				
3/24/2022		10 Micron Regular	Primary Carbon vessels A, B, C, & D			
3/25/2022	25 Micron Pleated					
3/29/2022			Primary Carbon vessels A, B, C, & D			
3/30/2022			Primary Carbon vessels A, B, C, & D			
3/31/2022			Secondary Carbon vessels A, B, C, & D	Coarse Sand Filters 2A/2B		

FIGURES

FIGURE 1

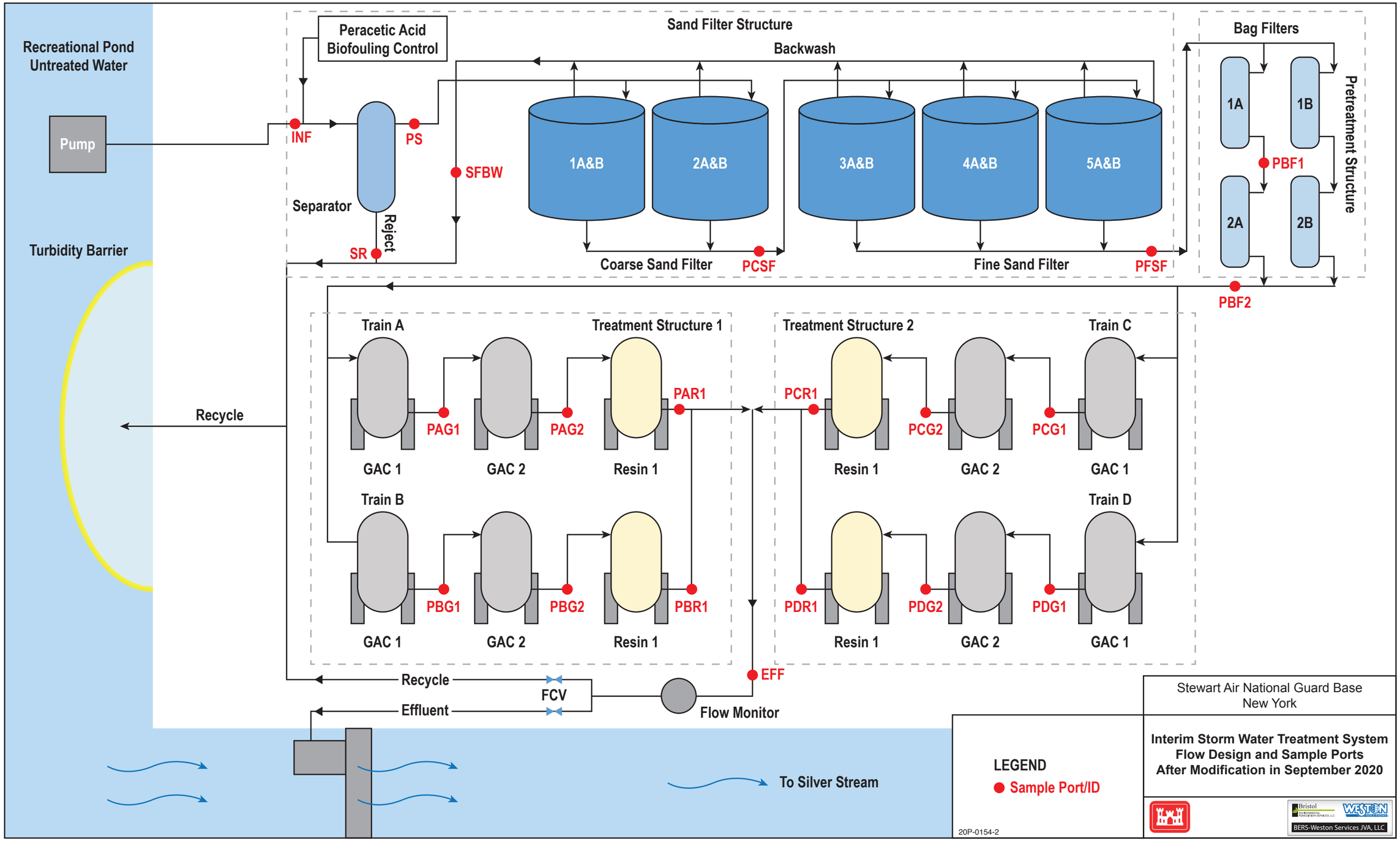

Recreational Pond
Untreated Water
Pump
Turbidity Barrier
Peracetic Acid
Biofouling Control
Sand Filter Structure
Backwash
INF
PS
SFBW
Separator
Reject
SR
1A&B
2A&B
3A&B
4A&B
5A&B
Coarse Sand Filter
PCSF
Fine Sand Filter
PFSF
Bag Filters
1A
1B
2A
2B
PBF1
PBF2
Pretreatment Structure
Train A
Treatment Structure 1
PAG1
PAG2
PAR1
GAC 1
GAC 2
Resin 1
Treatment Structure 2
Train C
PCR1
PCG2
PCG1
Resin 1
GAC 2
GAC 1
Train B
PBG1
PBG2
PBR1
GAC 1
GAC 2
Resin 1
Train D
PDR1
PDG2
PDG1
Resin 1
GAC 2
GAC 1
Recycle
EFF
Recycle
FCV
Effluent
Flow Monitor
To Silver Stream
LEGEND
Sample Port/ID
20P-0154-2
Stewart Air National Guard Base
New York
Interim Storm Water Treatment System
Flow Design and Sample Ports
After Modification in September 2020
BERS-Weston Services JVA, LLC

FIGURE 2 - RECREATION POND LEVEL CHART

JANUARY TO MARCH 2022

ISWTS SANGB - RECREATION POND LEVEL

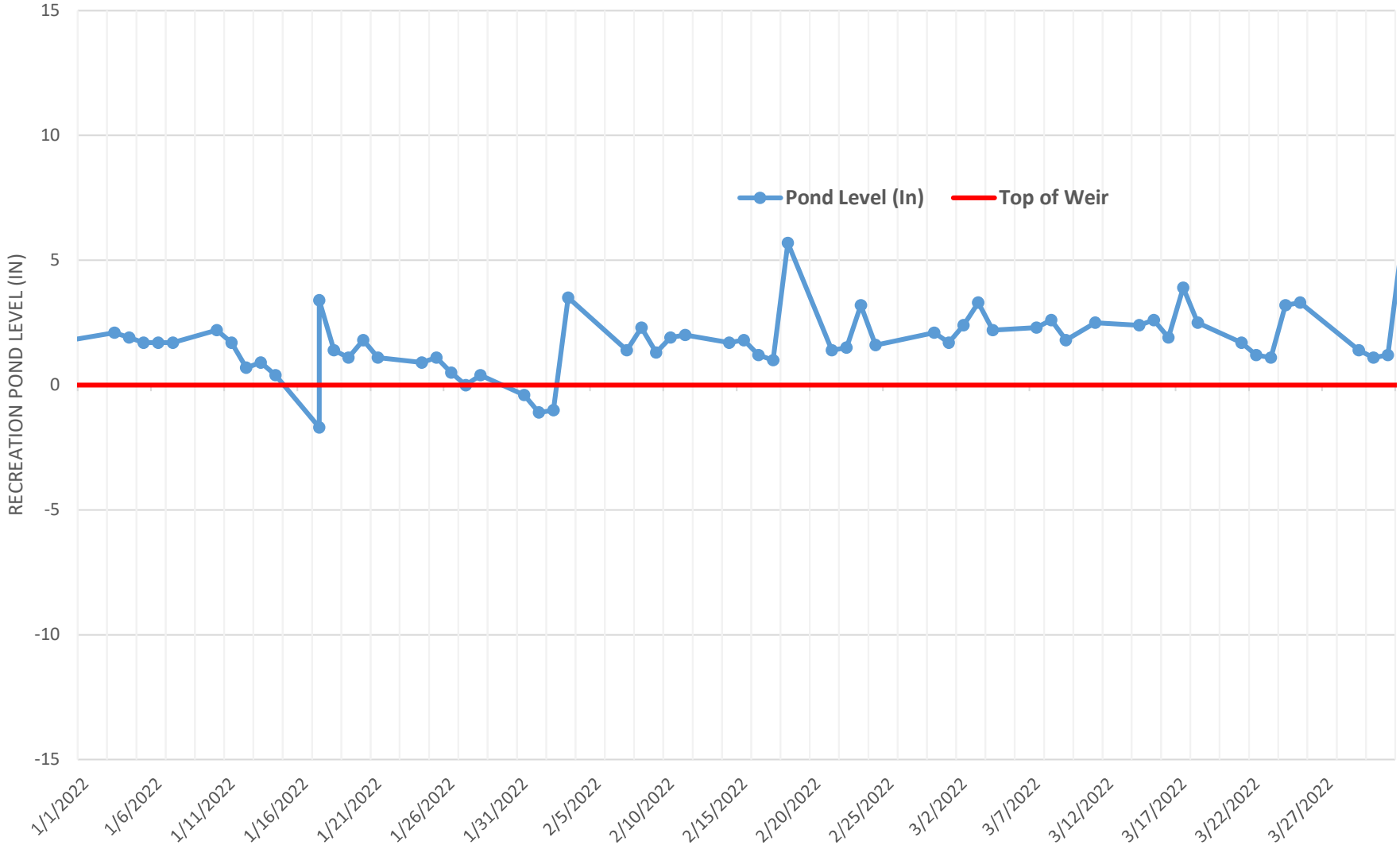
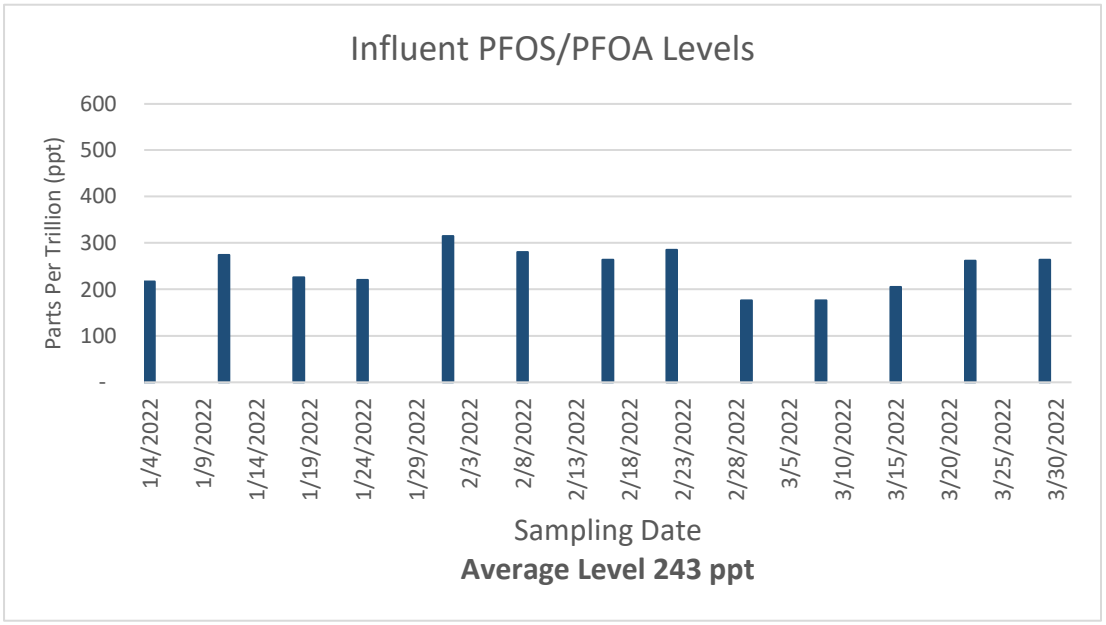


FIGURE 3 - INFLUENT AND EFFLUENT PFOS AND PFOA CHARTS



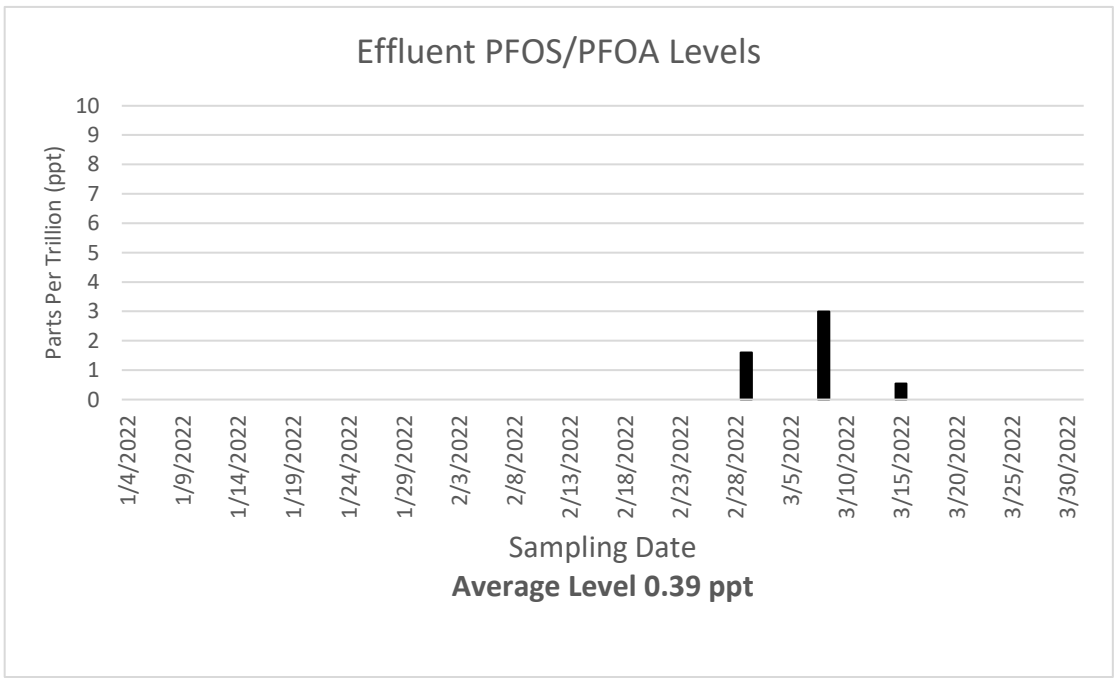
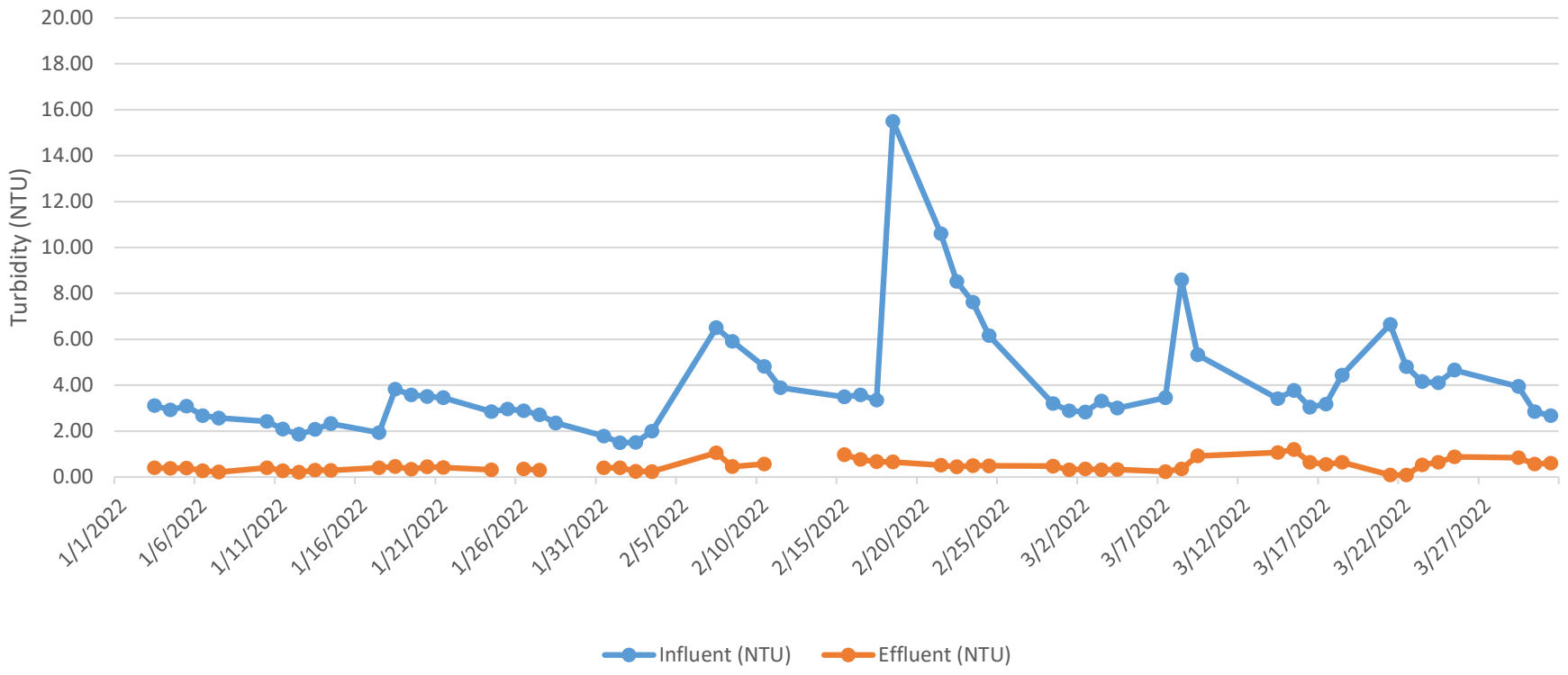


FIGURE - 4 - INFLUENT AND EFFLUENT TURBIDITY CHART

January to March 2022

Influent and Effluent Turbidity



ATTACHMENT 1

Waste Disposal Documents

ONION EQUIPMENT COMPANY

5705 W 73rd Street
Indianapolis, IN 46278
Phone: (317) 762-6007

May 8, 2022

Re: Stewart ANG March 8th Media Exchange Event

To whom it may concern,

Attached are the manifests and disposal certificates for the waste generated on the service event which occurred on and after March 8, 2022.

Thank you,

Eric Patterson

CERTIFICATE OF DESTRUCTION AND ACTIVATED CARBON REACTIVATION

CAN Number: 6973N

Company: Onion Equipment Company
5705 West 73rd St.
Indianapolis, IN 46278-1741

Issue Date: May 18, 2022

CCC CAN Number: 6973N

Waste Classification: RCRA non-hazardous

Treatment Method: Thermal Reactivation

Manifest Number(s): S019-03D1, S019-03D2

Receipt Date: 3/15/22

Calgon Carbon hereby certifies on the above date the carbon received under the indicated carbon profile application number was reactivated in accordance with the state and federal regulations by thermal processing that removes and destroys the volatile and semi-volatile contaminants adsorbed on the spent carbon.

Calgon Carbon Corporation

Matt Asbury

Quality Assurance Manager

Calgon Carbon Corporation
200 Neville Road
Pittsburgh, PA 15225

Phone 412-771-4050

Non-Hazardous Waste Manifest

GENERATOR SECTION

Non-Hazardous Waste Manifest	Generator ID Number	Waste Profile Number	Waste Tracking (Manifest) Number
		6973N	SO19-03D1

Customer Billing Name and Mailing
Onion Equipment Company
5705 W 73rd Street - Indianapolis, IN 46278

Customer Billing Phone: (317) 694-7576

Generator's Site Address
Stewart ANG Base
1 Maquire Way Newburgh, NY 12550

Generator's Phone:

Transporter 1 Company Name — US EPA ID Number

Transporter 2 Company Name — US EPA ID Number

Designated Facility Name and Site Address
Calgon Carbon Corporation C/O Dart Trucking
11017 Market St
North Lima. OH 44452

Facility's Phone: 412-771-4050, X4116

US EPA ID Number
PAD000736942

	Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt / Vol.	Disposal Method
1	non RCRA Spent Activated Carbon; Non DOT Regulated	16	1 CYD BAG	20,000	LB	Reactivation
2						
3						
4						

Special Handling Instructions and Additional Information
Profile 6973N, RMA 60013445
Note item 1 weight is dry weight basis

24 Hour Emergency Response Phone

Emergency Response Guide Number

GENERATOR'S / OFFEROR'S CERTIFICATION: I hereby certify that the above-described materials are non-hazardous wastes as defined by 40 CFR 261 or any applicable state law. Further, that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Generator's Offeror's Printed / Typed Name	Signature	Month	Day	Year
X Zach Patterson		03	14	2022

TRANSPORTER SECTION

Transporter's Acknowledgement of Receipt of Materials

	Signature	Month	Day	Year
X Transporter 1 Printed / Typed Name: ALEX B. 03/14/22		03	14	2022
Transporter 2 Printed / Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY SECTION

Discrepancy

Discrepancy Indication Space	☐ Quantity	☐ Type	☐ Residue	☐ Partial Rejection	☐ Full Rejection

Alternate Facility (or Generator) — US EPA ID Number

Facility's Phone:

Signature of Alternate Facility (or Generator)	Month	Day	Year

Designated Facility Owner or Operator: Certification of Receipt of materials covered by the manifest except as noted in Discrepancy section

Printed / Typed Name	Signature	Month	Day	Year

Bill Of Lading - Short Form - Not Negotiable

BOL Number: 1098952

Ship From

STEWART ANG BASE
C/O ONION EQUIPMENT
1 MAGUIRE WAY
NEWBURGH NY 12550
(317) 650-5817 ZACH

Ship To

DART TRUCKING RETURNS
11017 MARKET ST.

NORTH LIMA OH 44452
(317) 762-6007 RECEIVING

Bill To

REDSTONE LOGISTICS
8500 W. 110TH STREET SUITE 260
OVERLAND PARK KS 66210

Pro # : 1098952
Ship Date : 03/14/22
Cust Ref # : 00598-2
PU Ref # : 00598-2
Del Ref # : 60013445
Del Appt : 03/15/22
Carrier : LANDSTAR RANGER, INC
Carrier Pro#:

References

00598-2

00598-2

Special Instructions:

PLEASE CALL AHEAD FOR LOADING AND UNLOADING!! 20 SKIDS, PO#00598-2, CONFIRMATION#60013445

Freight Terms:

Prepaid ___ Collect ___ 3rd Party XXX

QTY	PKG	Wgt	HM	Item Description	DIMS	Cls	NMFC #
20	20	40000		Water Filter Material		110	

*Mark with an X to designate hazardous materials as defined in title 49 of the code of Federal Regulations.

Haz Mat emergency Contact #

Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property as follows: "The agreed or declared value of the property is specifically stated by the shipper not to exceed_____ per _____"

COD Amount: $_____
Fee Terms: Collect____, Prepaid____, Check Acceptable____

Note:Liability limitation for loss or damage in this shipment may be applicable. See 49 USC 4706(c)(1)(A) and (B)

For Freight Collect Shipments:

If this shipment is to be delivered to the consignee, without recourse on the consignor, the consignor shall sign the following statement. The carrier may decline to make delivery of this shipment without payment of freight and all other lawful charges.

Signature of Consignor:_____

Shipper Signature / Date

This is to certify that the above named materials are properly classified packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the DOT.

X Signature of Shipper:_____ Date 3-14-22

Consignee/Receiver Signature / Date

This is to certify that the above named materials were received in apparent good order (except as noted).

Signature of Consignee:_____ Date_____

Trailer Loaded: Freight Counted:
_____ By Shipper _____ By Shipper
_____ By Driver _____ By Driver

Carrier Signature / Date

Carrier acknowledges receipt of packages and required placards. Carrier certifies emergency response information was made available and/or carrier has the DOT emergency response guidebook or equivalent documentation in the vehicle. Property described above is received in good order, except as noted.

Carrier:_____ Date: 03/14/22

X

Non-Hazardous Waste Manifest

GENERATOR SECTION

Non-Hazardous Waste Manifest	Generator ID Number	Waste Profile Number	Waste Tracking (Manifest) Number
		6973N	SO19-03D2

Customer Billing Name and Mailing
Onion Equipment Company
5705 W 73rd Street - Indianapolis, IN 46278

Customer Billing Phone: (317) 694-7576

Generator's Site Address
Stewart ANG Base
1 Maquire Way, Newburgh, NY 12550

Generator's Phone:

Transporter 1 Company Name — **US EPA ID Number**

Transporter 2 Company Name — **US EPA ID Number**

Designated Facility Name and Site Address
Calgon Carbon Corporation C/O Dart Trucking
11017 Market St
North Lima. OH 44452

Facility's Phone: 412-771-4050, X4116

US EPA ID Number
PAD000736942

	Waste Shipping Name and Description	Containers No.	Containers Type	Total Quantity	Unit Wt / Vol.	Disposal Method
1	non RCRA Spent Activated Carbon; Non DOT Regulated	16	1 CYD BAG	20,000	LB	Reactivation
2						
3						
4						

Special Handling Instructions and Additional Information
Profile 6973N, RMA 60013445
Note item 1 weight is dry weight basis

24 Hour Emergency Response Phone

Emergency Response Guide Number

GENERATOR'S / OFFEROR'S CERTIFICATION: I hereby certify that the above-described materials are non-hazardous wastes as defined by 40 CFR 261 or any applicable state law. Further, that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

Generator's Offeror's Printed / Typed Name	Signature	Month	Day	Year
X Zach Patterson		03	14	2022

TRANSPORTER SECTION

Transporter's Acknowledgement of Receipt of Materials

		Month	Day	Year
X Transporter 1 Printed / Typed Name: Edward Kerr / Landstar	Signature	03	14	2022
Transporter 2 Printed / Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY SECTION

Discrepancy

Discrepancy Indication Space	☐ Quantity	☐ Type	☐ Residue	☐ Partial Rejection	☐ Full Rejection

Alternate Facility (or Generator) — **US EPA ID Number**

Facility's Phone:

Signature of Alternate Facility (or Generator)	Month	Day	Year

Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Discrepancy section

Printed / Typed Name	Signature	Month	Day	Year

Bill Of Lading - Short Form - Not Negotiable

BOL Number: 1098951

Ship From

STEWART ANG BASE
C/O ONION EQUIPMENT
1 MAGUIRE WAY
NEWBURGH NY 12550
(317) 650-5817 ZACH

Ship To

DART TRUCKING RETURNS
11017 MARKET ST.

NORTH LIMA OH 44452
(317) 762-6007 RECEIVING

Bill To

REDSTONE LOGISTICS
8500 W. 110TH STREET SUITE 260
OVERLAND PARK KS 66210

Pro # : 1098951
Ship Date : 03/14/22
Cust Ref # : 00598
PU Ref # : 00598
Del Ref # : 60013445
Del Appt : 03/15/22
Carrier : LANDSTAR RANGER, INC
Carrier Pro#:

References

00598

00598

Special Instructions:

PLEASE CALL AHEAD FOR LOADING AND UNLOADING!! 20 SKIDS, PO#00598, CONFIRMATION#60013445

Freight Terms:

Prepaid ___ Collect ___ 3rd Party XXX

QTY	PKG	Wgt	HM	Item Description	DIMS	Cls	NMFC #
20	20	40000		Water Filter Material		110	

*Mark with an X to designate hazardous materials as defined in title 49 of the code of Federal Regulations.
Haz Mat emergency Contact #

Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property as follows: "The agreed or declared value of the property is specifically stated by the shipper not to exceed_____ per _____"

COD Amount: $_____
Fee Terms: Collect____, Prepaid____, Check Acceptable____

Note: Liability limitation for loss or damage in this shipment may be applicable. See 49 USC 14706(c)(1)(A) and (B)

For Freight Collect Shipments:

If this shipment is to be delivered to the consignee, without recourse on the consignor, the consignor shall sign the following statement. The carrier may decline to make delivery of this shipment without payment of freight and all other lawful charges.

Signature of Consignor:_____

Shipper Signature / Date

This is to certify that the above named materials are properly classified packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the DOT.

X Signature of Shipper:_____ Date 3-14-22

Consignee/Receiver Signature / Date

This is to certify that the above named materials were received in apparent good order (except as noted).

Signature of Consignee:_____ Date_____

Trailer Loaded: ____ By Shipper ____ By Driver
Freight Counted: ____ By Shipper ____ By Driver

Carrier Signature / Date

Carrier acknowledges receipt of packages and required placards. Carrier certifies emergency response information was made available and/or carrier has the DOT emergency response guidebook or equivalent documentation in the vehicle. Property described above is received in good order, except as noted.

Carrier: _____ Date: 3-14-22
X Edward Kerr / Landstar