

US Army Corps of Engineers
Baltimore District



**QUARTERLY OM&M
REPORT NO. 10**

October to December 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

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ACRONYMS AND ABBREVIATIONS

AFFF	aqueous film forming foam
ANG	Air National Guard
BES	Bristol Environmental Solutions, LLC
EPA	U.S Environmental Protection Agency
F400	Calgon Filtrasorb 400
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	per- and 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

EXECUTIVE SUMMARY

An Interim Storm Water Treatment System (ISWTS) is operating 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 2016 U.S. Environmental Protection Agency (EPA) drinking water lifetime Health Advisory (HA) standard of 70 parts per trillion (ppt) (individually or combined).

The ISWTS has been operating consistently since July 13, 2020. The ISWTS consists of four treatment trains with three treatment vessels per train. This report summarizes OM&M between October 01 and December 31, 2022. The use of treatment trains consisting of two granular activated carbon (GAC) followed by a resin (IX) vessel and treatment trains consisting of three GAC vessels was evaluated during this reporting period.

During the performance period, a total of 31,873,200 gallons of stormwater were treated and discharged over the outfall weir by the ISWTS. There were 92 days of operation between October 1 and December 31, 2022. During this period of performance, the Recreation Pond was drawn down for 34 of the 92 days or 37% of the time.

PFOS and PFOA samples were collected 12 times on the influent and effluent during the performance period. The combined PFOS and PFOA influent and effluent averaged concentrations during the performance period were 267 ppt and 8.8 ppt, respectively. The highest effluent PFOS and PFOA concentration detected in the ISWTS effluent was 32 ppt. All effluent results were below the current HA of 70 ppt.

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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 2016 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 a 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 the Recreation Pond fills up and both treated effluent and untreated stormwater go over the outfall weir.

This is the 10th quarterly report that summarizes Operations, Maintenance, and Monitoring (OM&M) activities conducted by BES at SANGB. This report summarizes ISWTS operations between October 01 and December 31, 2022, at SANGB and includes the contract award of Option Year 1 extending OM&M activities under modification 0001 and 0002 through the period of performance of September 13, 2023.

2.0 GENERAL COMPLIANCE SUMMARY

The ISWTS has been operating consistently since July 13, 2020, following installation and commissioning of pretreatment system improvements in June and early July 2020. The ISWTS consists of four treatment trains with three treatment vessels per train. This report

summarizes OM&M between October 01 and December 31, 2022, or months 28, 29, and 30 post start-up. During the performance period the system influent, intra-process monitoring (three locations) and combined effluent was monitored weekly to confirm treatment system effectiveness for PFOS and PFOA mitigation as well as other per- and polyfluoroalkyl substances (PFAS). Performance and comparison samples were collected a total of 12 days during the quarterly period. No samples were collected on December 27, 2023, due to equipment damage from a site wide power outage at Stewart Air National Guard Base.

The analytical method used was EPA 537.1 M. Final PFAS results are provided in **Table 1**. Based on validated analytical data, all ISWTS effluent PFOS and PFOA sample results were well below the discharge criteria of 70 ppt (individually or combined) in the off-base stormwater discharge at Recreation Pond.

During the performance period there was one media exchange performed due to excessive biosolids loading, media fouling, and observed breakthrough of PFOS/PFOA in October and early November 2022. A media exchange event was performed between November 7 and November 11, 2022, and included a new configuration to expand the testing to two treatment trains of all GAC compared to two treatment trains of GAC-GAC-IX as further discussed in Section 3.0.

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 followed by three stages of PFOS/PFOA treatment media.

Between November 2020 and July 2022, the three stage PFOS/PFOA treatment media consisted of primary and secondary GAC, followed by ion exchange resin serving as a polishing media. The IX resin performance has not been demonstrating long term PFOS

and PFOA removal effectiveness when compared to treatment predictions of the IX resin manufacturer. In addition, the IX resin has also been prone to foul and difficult to maintain, usually resulting in shortened media life. As described in Quarterly Report No. 9 (July to September 2022), a comparison of the performance of the GAC-GAC-IX regime to an all GAC Treatment Train (GAC-GAC-GAC) was initiated in July 2022, to directly compare performance of each regime. The GAC media is new Calgon Filtrasorb 400 (F400) and the IX resin is Purolite PFA694.

At the beginning of the quarter Trains A, B, and D were GAC-GAC-IX and Train C was the first all-GAC Train. In November 2022, following the media change, Trains B and D were both GAC-GAC-IX while Trains A and C were changed to all GAC and remained in this configuration for the rest of the quarter. Peracetic acid was available but not introduced this quarter to see if any increased biofouling could be confirmed because it was not in operation. The system configuration is shown on **Figure 1**.

4.0 GENERAL FACILITY OPERATIONS SUMMARY

During the performance period, a total of 31,873,200 gallons of stormwater were treated and discharged over the outfall weir by the ISWTS. All treated effluent was discharged over the outfall weir. No effluent was recirculated to the Recreation Pond during the performance period. 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. 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. These are the primary reasons why reduced run time occurs.

Month	Volume Treated (Gallons)	Operational Time ¹ (Hours)	Run Time ² (Percent)	Average Treatment Flow ³ (GPM)
October 2022	10,385,530	718	97%	241
November 2022	12,066,940	715	99%	281
December 2022	9,420,760	561	78%	280
Total	31,873,200	1,994		

¹Operation Time – Hours influent pump in operation during month

²Run Time – Hours pump running divided by the total period time

³Average GPM – Average flow total gallons divided by operational hours

There were 92 days of operation between October 1 and December 31, 2022. During this period of performance, the Recreation Pond was drawn down for 34 of the 92 days or 37% 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 12 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 267 ppt and 8.8 ppt, respectively. The maximum combined PFOS and PFOA influent concentration was 382 ppt on October 4, 2022, and the maximum combined PFOS and PFOA effluent concentration was 32 ppt on November 1, 2022, of the performance period, which occurred directly before the media was changed.

5.2 INTRA-PROCESS PFOS/PFOA AND TOTAL PFAS MONITORING

During the performance period, intra-process monitoring for PFOS/PFOA and Total PFAS was performed after all three media stages. All sample results are provided in Table 1.

Intra-process samples for the 3rd vessel effluent were collected to compare the performance of GAC and IX treatment against all GAC treatment. Based on intra-process monitoring and sample results from the 3rd vessel effluent from trains configured with GAC and IX media against trains configured with all GAC media, treatment from all GAC trains provided comparable PFOS, PFOA, and Total PFAS mitigation when compared to trains configured with GAC and IX. A comparison table included in this section, provides a summary of the 3rd vessel effluent results from each configuration for the eleven (11) intra-process sampling events. There were no intra-process samples collected during the media change performed between November 7 through 11, 2022.

The maximum detection of PFOS and PFOA after GAC and IX treatment, before the media change was 36 ppt compared to non-detection after all GAC treatment indicating improved performance of the all GAC treatment. The maximum detection of PFOS and PFOA after the media exchange was 1.7 ppt for the GAC and IX treatment and 1.4 ppt for all GAC treatment indicating similar performance, as illustrated in the comparison table.

The highest detection of Total PFAS from the 3rd vessel effluent was detected before the media exchange on November 1, 2022. The Train A result of the total sum of all PFAS compounds reported 184.2 ppt after GAC-GAC-IX treatment, compared to 3.4 ppt of all GAC treatment in Train C. The maximum detection of Total PFAS after the media exchange occurred in late December. The Train B result reported 3.0 after GAC-GAC-IX treatment, compared to a high of 1.7 ppt of all GAC treatment in Train C.

**Compare Train C GAC 3 Effluent to Trains A, B, or D IX Effluent
 and
 Compare Trains A or C GAC 3 Effluent to Trains B or D IX Effluent**

Date	Combined PFOS/PFOA (ppt)					Combined PFAS (ppt)		
	GAC-IX1 Train	GAC-IX1 Effluent	ALL GAC-Train	GAC 3 Effluent	GAC-IX1 Train	GAC-IX1 Effluent	ALL GAC Train	GAC 3 Effluent
Trains B, C and D (GAC-GAC-IX) and Train A (GAC-GAC-GAC)								
10/4/22	B	36.0	C	ND	B	170.8	C	1.2
10/11/22	D	ND	C	ND	D	34.2	C	1.8
10/18/22	A	11.1	C	ND	A	102.2	C	2.5
10//25/22	D	1.4	C	ND	D	40.5	C	ND
11/1/22	A	31.0	C	ND	A	184.2	C	3.4
Media Change – Trains B and D (GAC-GAC-IX) – Trains A and C (GAC-GAC-GAC)								
11/15/22	B	1.0	A	1.0	B	1.0	A	1.0
11/22/22	D	ND	C	ND	D	ND	C	ND
11/29/22	B	ND	A	ND	B	ND	A	ND
12/6/22	D	ND	C	ND	D	ND	C	ND
12/13/22	B	1.7	A	0.8	B	3.0	A	0.8
12/20/22	D	1.1	C	1.4	D	1.5	C	1.7

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 on November 29, 2022. 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 2.5 mg/L, and the GAC-2 effluent (influent to the resin) was 0.90 mg/L indicating that the influent TOC level to the ion exchange resin was acceptable. Effluent TOC concentration was 0.67 mg/L. Glycol was not detected in the November 29, 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 3.5 nephelometric turbidity units (NTU) and 0.42 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 not introduced into the process influent during the performance period to evaluate if increased biofouling could be detected. No peracetic acid will likely be introduced at least until the end of the next media change.

6.0 SCHEDULED PREVENTIVE MAINTANANCE

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

- Winterization activities;
- Coarse and fine sand filter backwashes;
- Coarse and fine sand filter cleanings;
- Primary and secondary bag filter changes;
- Primary, secondary, and tertiary carbon backwashing;
- Isolated system flushes and system inspections and checks;
- Ion exchange resin observations and skimming and;
- Replaced sample ports and sample tubing.

During this quarterly reporting period the sand filtration media was not replaced. The coarse and fine sand filters are automated to backwash approximately every four (4) hours and were each backwashed 622 times, respectively and a total of ten (10) cleaning events were completed. The primary and secondary bag filters were changed 10 and 31 times,

respectively, during the performance period. To maintain acceptable PFAS treatment media pressure, the primary and secondary GAC was backwashed 13 and 6 times, respectively, during the quarter. The resin was inspected, skimmed, and leveled once to remove solids and reduce media pressure during the quarter. The sand filter maintenance, bag filter changes, GAC backwash events, and ion exchange resin skimming activities are summarized in **Table 3**.

7.0 MATERIAL DISPOSAL

Waste bag filters, as well as spent GAC and ion exchange resin wastes were generated during the quarter. Spent GAC materials were shipped to Calgon Corporation facility in Catlettsburg, Kentucky, for thermal reactivation on November 16, 2022. Waste bag filters, and spent resin waste were shipped to US Ecology for disposal in Subtitle C Landfill in Belleville, Michigan, on November 21, 2022. Spent media disposal activities are scheduled immediately following media changeout activities to eliminate any onsite storage of solid wastes at SANGB. Material disposal documents are provided in Attachment 1.

8.0 PROJECTED ACTIVITIES FOR NEXT PERFORMANCE PERIOD

During the next performance period another media change is anticipated to meet performance objectives. Additional all GAC media testing is also anticipated.

The effectiveness of the Peracetic acid has been uncertain. Bristol turned off the Peracetic acid for the fourth quarter 2022, to see if increased biofouling impacts can be detected. No increased biofouling effects were observed during the fourth quarter and will likely remain off at least until the next media change.

During the first quarter of 2023, offsite disposal and reactivation (GAC) of all spent wastes/media is anticipated. Bristol will continue to evaluate new technologies/materials to reduce biofouling impacts. No capital improvements are planned at this time.

TABLES

TABLE 1 - COMBINED ANALYTICAL RESULTS

C2S8730_C2S8739V1 - 10/04/2022

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID			VALIDATED DATA																						
Sampling Date			TXT319		TXT324		TXT325		TXT321		TXT323		TXT322		TXT377		TXT376		TXT375		TXT320				
COC Number			157747		157747		157747		157747		157747		157747		157750		157750		157750		157747				
Perfluorinated Compounds	Method	UNITS	SANG-FB-10042022	SANG-INF-10042022	SANG-INF-10042022D	SANG-PBR1-10042022	SANG-PBG1-10042022	SANG-PBG2-10042022	SANG-PBG2-10042022	SANG-PBG1-10042022	SANG-PBG2-10042022	SANG-PBG3-10042022	SANG-PBG3-10042022	SANG-PBG3-10042022	SANG-PBG3-10042022	SANG-PBG3-10042022	SANG-PBG3-10042022	SANG-PBG3-10042022	SANG-PBG3-10042022	SANG-PBG3-10042022	SANG-PBG3-10042022	DL	LOD	LOQ	
Perfluorobutanoic acid (PFBA)	EPA 537.1 M	ng/L	1.6 J	39	43	28	8.5	1.4 J			8.7	1.1 J		0.79 J		19						0.59	1.4	2	
Perfluoropentanoic acid (PFPeA)	EPA 537.1 M	ng/L	0.70 U	130 (1)	130 (1)	48	12	0.80 J			6.3	0.43 J				24						2.2	7	20	
Perfluorohexanoic acid (PFHxA)	EPA 537.1 M	ng/L	0.70 U	83	96	22	6.3	0.33 J			2.9	0.65 J		0.77 U		8						0.2	0.7	2	
Perfluoroheptanoic acid (PFHpA)	EPA 537.1 M	ng/L	1.0 U	42	47	8.1	2.7	1.0 U			1.3 J	0.38 J		1.1 U		2.0 J						0.28	1	2	
Perfluorooctanoic acid (PFOA)	EPA 537.1 M	ng/L	1.0 U	32	38	6	1.6 J	1.0 U			0.99 J	1.0 U		1.1 U		1.0 J						0.41	1	2	
Perfluorononanoic acid (PFNA)	EPA 537.1 M	ng/L	1.0 U	6.8	7.5	1.3 J	1.0 U	1.0 U			0.41 J	1.0 U		1.1 U		1.0 U						0.35	1	2	
Perfluorodecanoic acid (PFDA)	EPA 537.1 M	ng/L	1.0 U	5.8	6.5	0.69 J	0.58 J	1.0 U			0.51 J	1.0 U		1.1 U		1.0 U						0.29	1	2	
Perfluoroundecanoic acid (PFUnA)	EPA 537.1 M	ng/L	1.0 U	0.52 J	0.50 J	1.0 U	1.0 U	1.0 U			1.0 U	1.0 U		1.1 U		1.0 U						0.37	1	2	
Perfluorododecanoic acid (PFDoA)	EPA 537.1 M	ng/L	1.0 U	0.57 J	1.0 U	1.0 U	1.0 U	1.0 U			1.0 U	1.0 U		1.1 U		1.0 U						0.48	1	2	
Perfluorotridecanoic acid (PFTRDA)	EPA 537.1 M	ng/L	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U			0.70 U	0.70 U		0.70 U		0.70 U						0.24	0.7	2	
Perfluorotetradecanoic acid (PFTEDA)	EPA 537.1 M	ng/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U			1.0 U	1.0 U		1.1 U		1.0 U						0.39	1	2	
Perfluorobutanesulfonic acid (PFBS)	EPA 537.1 M	ng/L	1.0 U	19	23	2.8	2.1	1.0 U			1.0 J	1.0 U		1.1 U		0.69 J						0.27	1	2	
Perfluoropentanesulfonic acid (PFPeS)	EPA 537.1 M	ng/L	1.0 U	21	25	2.1	1.8 J	1.0 U			0.63 J	1.0 U		1.1 U		0.39 J						0.34	1	2	
Perfluorohexanesulfonic acid (PFHxS)	EPA 537.1 M	ng/L	1.0 U	140 (1)	140 (1)	11	9.2	1.0 U			3	1.0 U		1.1 U		2.4						2.8	10	20	
Perfluoroheptanesulfonic acid PFHpS	EPA 537.1 M	ng/L	1.0 U	5.6	6.7	1.0 U	1.0 U	1.0 U			1.0 U	1.0 U		1.1 U		1.0 U						0.43	1	2	
Perfluorooctanesulfonic acid (PFOS)	EPA 537.1 M	ng/L	1.0 U	350 (1)	350 (1)	30	17	1.0 U			6.4	0.99 J		1.1 U		4.8						4.7	10	20	
Perfluorononanesulfonic acid (PFNS)	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U			1.4 U	1.4 U		1.5 U		1.4 U						0.64	1.4	2	
Perfluorodecanesulfonic acid (PFDS)	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U			1.4 U	1.4 U		1.5 U		1.4 U						0.6	1.4	2	
Perfluorooctane Sulfonamide (PFOSA)	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U			1.4 U	1.4 U		1.5 U		1.4 U						0.4	1.4	4	
MeFOSAA	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U			1.4 U	1.4 U		1.5 U		1.4 U						0.7	1.4	4	
EtFOSAA	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U			1.4 U	1.4 U		1.5 U		1.4 U						0.54	1.4	4	
4:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	1.6 J	1.8 J	1.4 U	1.4 U	1.4 U			1.4 U	1.4 U		1.5 U		1.4 U						0.47	1.4	4	
6:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	88	110 (1)	10	3.5 J	1.4 U			1.7 J	1.4 U		1.5 U		1.7 J						6.3	14	40	
8:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	14	15	0.83 J	1.2 J	1.4 U			0.76 J	1.4 U		1.5 U		1.4 U						0.53	1.4	4	
Hexafluoropropyleneoxide dimer acid	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U			1.4 U	1.4 U		1.5 U		1.4 U						0.41	1.4	4	
4,8-Dioxo-3H-perfluorononanoic acid	EPA 537.1 M	ng/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U			0.40 U	0.40 U		0.44 U		0.40 U						0.12	0.4	4	
9CI-PF3ONS (F-53B Major)	EPA 537.1 M	ng/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U			1.0 U	1.0 U		1.1 U		1.0 U						0.42	1	4	
11CI-PF3OUDs (F-53B Minor)	EPA 537.1 M	ng/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U			1.0 U	1.0 U		1.1 U		4						0.32	1	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-10042022 is a field blank.

Sample SANG-INF-10042022D is a field duplicate of SANG-INF-10042022.

(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.

Sample ports located in each of the 4 trains; A, B, C, D, such as: PBG1 = post B train GAC unit 1.

PBG1 = post A train GAC Unit 1

PBG2 = post A train GAC Unit 2

PBR1 = 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

TABLE 1 - COMBINED ANALYTICAL RESULTS

C2T5692V1_C2T5702V1 - 10/11/2022

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID			TZE905	TZE910	TZE911	TZE907	TZE909	TZE908	TZE934	TZE933	TZE932	TZE906			
Sampling Date			2022/10/11 08:00	2022/10/11 08:30	2022/10/11 08:30	2022/10/11 08:10	2022/10/11 08:24	2022/10/11 08:18	2022/10/11 08:25	2022/10/11 08:20	2022/10/11 08:11	2022/10/11 08:05			
Sample ID			SANG-FB-10112022	SANG-INF-10112022	SANG-INF-10112022D	SANG-PDR1-10112022	SANG-PDG1-10112022	SANG-PDG2-10112022	SANG-PCG1-10112022	SANG-PCG2-10112022	SANG-PCG3-10112022	SANG-EFF-10112022	DL	LOD	LOQ
Perfluorinated Compounds	Method	UNITS													
Perfluorobutanoic acid (PFBA)	EPA 537.1 M	ng/L	1.4 U	40	40	18	23	14	18	1.5 U	1.1 J	22	0.65	1.5	2.2
Perfluoropentanoic acid (PFPeA)	EPA 537.1 M	ng/L	0.70 U	130 (1)	120 (1)	14	52	26	18	0.77 U	0.65 J	40	2.2	7	20
Perfluorohexanoic acid (PFHxA)	EPA 537.1 M	ng/L	0.70 U	100	100	2.2 J	32	12	9.3	0.77 U	0.77 U	19	0.22	0.77	2.2
Perfluoroheptanoic acid (PFHpA)	EPA 537.1 M	ng/L	1.0 U	50	50	1.1 U	14	3.7	3.2	1.1 U	1.1 U	5.8	0.31	1.1	2.2
Perfluorooctanoic acid (PFOA)	EPA 537.1 M	ng/L	1.0 U	40	40	1.1 U	10	2.1 J	1.9 J	1.1 U	1.1 U	3.7	0.45	1.1	2.2
Perfluorononanoic acid (PFNA)	EPA 537.1 M	ng/L	1.0 U	7.9	7.9	1.1 U	1.7 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.39	1.1	2.2
Perfluorodecanoic acid (PFDA)	EPA 537.1 M	ng/L	1.0 U	9.7	8.7	1.1 U	1.5 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.32	1.1	2.2
Perfluoroundecanoic acid (PFUnA)	EPA 537.1 M	ng/L	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.41	1.1	2.2
Perfluorododecanoic acid (PFDoA)	EPA 537.1 M	ng/L	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.53	1.1	2.2
Perfluorotridecanoic acid (PFTRDA)	EPA 537.1 M	ng/L	0.70 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.26	0.77	2.2
Perfluorotetradecanoic acid (PFTEDA)	EPA 537.1 M	ng/L	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.43	1.1	2.2
Perfluorobutanesulfonic acid (PFBS)	EPA 537.1 M	ng/L	1.0 U	16	16	1.1 U	4.5	1.1 J	0.97 J	1.1 U	1.1 U	1.8 J	0.3	1.1	2.2
Perfluoropentanesulfonic acid (PFPeS)	EPA 537.1 M	ng/L	1.0 U	17	16	1.1 U	2.8	1.1 U	0.58 J	1.1 U	1.1 U	0.89 J	0.37	1.1	2.2
Perfluorohexanesulfonic acid (PFHxS)	EPA 537.1 M	ng/L	1.0 U	98	99	1.1 U	23	4	6	1.1 U	1.1 U	7.3	0.31	1.1	2.2
Perfluoroheptanesulfonic acid PFHpS	EPA 537.1 M	ng/L	1.0 U	5.3	5.7	1.1 U	0.74 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.47	1.1	2.2
Perfluorooctanesulfonic acid (PFOS)	EPA 537.1 M	ng/L	1.0 U	300 (1)	290 (1)	1.1 U	57	8.2	12	1.1 U	1.1 U	15	4.7	10	20
Perfluorononanesulfonic acid (PFNS)	EPA 537.1 M	ng/L	1.4 U	1.5 U	1.5 U	1.5 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)	EPA 537.1 M	ng/L	1.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.66	1.5	2.2
Perfluorooctane Sulfonamide (PFOSA)	EPA 537.1 M	ng/L	1.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.44	1.5	4.4
MeFOSAA	EPA 537.1 M	ng/L	1.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.77	1.5	4.4
EtFOSAA	EPA 537.1 M	ng/L	1.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.59	1.5	4.4
4:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	0.93 J	0.89 J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.52	1.5	4.4
6:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	89	87	1.5 U	18	3.2 J	3.9 J	1.5 U	1.5 U	5.9	0.69	1.5	4.4
8:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	14	14	1.5 U	1.8 J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.58	1.5	4.4
Hexafluoropropyleneoxide dimer acid	EPA 537.1 M	ng/L	1.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.45	1.5	4.4
4,8-Dioxo-3H-perfluorononanoic acid	EPA 537.1 M	ng/L	0.40 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.13	0.44	4.4
9CI-PF3ONS (F-53B Major)	EPA 537.1 M	ng/L	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.46	1.1	4.4
11CI-PF3OUDs (F-53B Minor)	EPA 537.1 M	ng/L	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.35	1.1	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-10112022 is a field blank.

Sample SANG-INF-10112022D is a field duplicate of SANG-INF-10112022.

(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.

Sample ports located in each of the 4 trains; A, B, C, D. such as: PBG1= post B train GAC unit 1.

PDG1 = post A train GAC Unit 1

PDG2 = post A train GAC Unit 2

PDR1 = 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

TABLE 1 - COMBINED ANALYTICAL RESULTS

C2U4123V2_C2U4135 - 10/18/2022

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID			UAZ009	UAZ022	UAZ024	UAZ014	UAZ020	UAZ017	UAZ073	UAZ072	UAZ071	UAZ012			
Sampling Date			2022/10/18 10:30	2022/10/18 11:00	2022/10/18 11:00	2022/10/18 10:40	2022/10/18 10:52	2022/10/18 10:45	2022/10/18 10:54	2022/10/18 10:47	2022/10/18 10:38	2022/10/18 10:35			
Sample ID			SANG-FB-10182022	SANG-INF-10182022	SANG-INF-10182022D	SANG-PAR1-10182022	SANG-PAG1-10182022	SANG-PAG2-10182022	SANG-PCG1-10182022	SANG-PCG2-10182022	SANG-PCG3-10182022	SANG-EFF-10182022	DL	LOD	LOQ
Perfluorinated Compounds	Method	UNITS													
Perfluorobutanoic acid (PFBA)	EPA 537.1 M	ng/L	1.4 U	27	27	23	2.8	0.82 J	16	0.90 J	1.2 J	19	0.59	1.4	2
Perfluoropentanoic acid (PFPeA)	EPA 537.1 M	ng/L	0.70 U	89	88	36	4.6	1.0 J	15	0.66 J	0.59 J	33	0.22	0.7	2
Perfluorohexanoic acid (PFHxA)	EPA 537.1 M	ng/L	0.70 U	69	64	14	2.9	0.61 J	8.1	0.45 J	0.28 J	15	0.2	0.7	2
Perfluoroheptanoic acid (PFHpA)	EPA 537.1 M	ng/L	1.0 U	36	36	5	1.4 J	0.44 J	3.5	0.44 J (1)	0.41 J	5.6	0.28	1	2
Perfluorooctanoic acid (PFOA)	EPA 537.1 M	ng/L	1.0 U	30	30	3	0.79 J	1.0 U	2.6	1.1 U	1.1 U	3.3	0.41	1	2
Perfluorononanoic acid (PFNA)	EPA 537.1 M	ng/L	1.0 U	6.6	6.8	0.57 J	1.0 U	1.0 U	0.73 J	1.1 U	1.1 U	0.75 J	0.35	1	2
Perfluorodecanoic acid (PFDA)	EPA 537.1 M	ng/L	1.0 U	7.3	7.8	0.43 J	1.0 U	1.0 U	0.49 J	1.1 U	1.1 U	0.57 J	0.29	1	2
Perfluoroundecanoic acid (PFUnA)	EPA 537.1 M	ng/L	1.0 U	0.61 J	0.70 J	1.0 U	1.0 U	1.0 U	1.1 U	1.1 U	1.1 U	1.0 U	0.37	1	2
Perfluorododecanoic acid (PFDoA)	EPA 537.1 M	ng/L	1.0 U	0.75 J	0.70 J	1.0 U	1.0 U	1.0 U	1.1 U	1.1 U	1.1 U	1.0 U	0.48	1	2
Perfluorotridecanoic acid (PFTRDA)	EPA 537.1 M	ng/L	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.77 U	0.77 U	0.77 U	0.70 U	0.24	0.7	2
Perfluorotetradecanoic acid (PFTEDA)	EPA 537.1 M	ng/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U	1.1 U	1.1 U	1.0 U	0.39	1	2
Perfluorobutanesulfonic acid (PFBS)	EPA 537.1 M	ng/L	1.0 U	11	11	0.97 J	0.54 J	1.0 U	1.4 J	1.1 U	1.1 U	1.7 J	0.27	1	2
Perfluoropentanesulfonic acid (PFPeS)	EPA 537.1 M	ng/L	1.0 U	14	14	0.73 J	0.47 J	1.0 U	1.2 J	1.1 U	1.1 U	1.3 J	0.34	1	2
Perfluorohexanesulfonic acid (PFHxS)	EPA 537.1 M	ng/L	1.0 U	70	70	3.7	1.8 J	1.0 U	5.4	0.35 J	1.1 U	6.2	0.28	1	2
Perfluoroheptanesulfonic acid PFHpS	EPA 537.1 M	ng/L	1.0 U	4.1	4.2	1.0 U	1.0 U	1.0 U	0.56 J	1.1 U	1.1 U	1.0 U	0.43	1	2
Perfluorooctanesulfonic acid (PFOS)	EPA 537.1 M	ng/L	1.0 U	180 (1)	190 (1)	8.1	4	1.0 U	12	1.1 U	1.1 U	13	4.7	10	20
Perfluorononanesulfonic acid (PFNS)	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.5 U	1.5 U	1.5 U	1.4 U	0.64	1.4	2
Perfluorodecanesulfonic acid (PFDS)	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.5 U	1.5 U	1.5 U	1.4 U	0.6	1.4	2
Perfluorooctane Sulfonamide (PFOSA)	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.5 U	1.5 U	1.5 U	1.4 U	0.4	1.4	4
MeFOSAA	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.5 U	1.5 U	1.5 U	1.4 U	0.7	1.4	4
EtFOSAA	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.5 U	1.5 U	1.5 U	1.4 U	0.54	1.4	4
4:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	1.0 J	0.99 J	1.4 U	1.4 U	1.4 U	1.5 U	1.5 U	1.5 U	1.4 U	0.47	1.4	4
6:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	71	71	6.1	1.7 J	1.4 U	4.6	1.5 U	1.5 U	6.6	0.63	1.4	4
8:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	11	12	0.56 J	0.54 J	1.4 U	0.74 J	1.5 U	1.5 U	0.65 J	0.53	1.4	4
Hexafluoropropyleneoxide dimer acid	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.5 U	1.5 U	1.5 U	1.4 U	0.41	1.4	4
4,8-Dioxo-3H-perfluorononanoic acid	EPA 537.1 M	ng/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.44 U	0.44 U	0.44 U	0.40 U	0.12	0.4	4
9CI-PF3ONS (F-53B Major)	EPA 537.1 M	ng/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U	1.1 U	1.1 U	1.0 U	0.42	1	4
11CI-PF3OUDs (F-53B Minor)	EPA 537.1 M	ng/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1 U	1.1 U	1.1 U	1.0 U	0.32	1	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-10182022 is a field blank.

Sample SANG-INF-10182022D is a field duplicate of SANG-INF-10182022.

(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.

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

TABLE 1 - COMBINED ANALYTICAL RESULTS

C2V2252V1_C2V2270V1 - 10/25/2022

RESULTS OF ANALYSES OF WATER

VALIDATED DATA														
Bureau Veritas ID			UCR325	UCR330	UCR331	UCR327	UCR329	UCR328	UCR511	UCR510	UCR509	UCR508	UCR326	
Sampling Date			2022/10/25 08:10	2022/10/25 08:45	2022/10/25 08:45	2022/10/25 08:22	2022/10/25 08:38	2022/10/25 08:30	2022/10/21 11:15	2022/10/25 08:40	2022/10/25 08:32	2022/10/25 08:24	2022/10/25 08:15	
Sample ID			SANG-FB-10252022	SANG-INF-10252022	SANG-INF-10252022D	SANG-PDR1-10252022	SANG-PDG1-10252022	SANG-PDG2-10252022	SANG-PBR1-10212022	SANG-PCG1-10252022	SANG-PCG2-101252022	SANG-PCG3-10252022	SANG-EFF-10252022	DL
														LOD
														LOQ
Perfluorinated Compounds	Method	UNITS												
Perfluorobutanoic acid (PFBA)	EPA 537.1 M	ng/L	1.4 U	14	14	17	5.8	1.4 U	28	13	1.4 U	1.4 U	16	0.59 1.4 2
Perfluoropentanoic acid (PFPeA)	EPA 537.1 M	ng/L	0.70 U	48	50	16	14	0.86 J	54	11	0.50 J	0.70 U	28	0.22 0.7 2
Perfluorohexanoic acid (PFHxA)	EPA 537.1 M	ng/L	0.70 U	34	35	3.8	7.9	0.68 J (1)	24	5.3	0.48 J	0.70 U	14	0.2 0.7 2
Perfluoroheptanoic acid (PFHpA)	EPA 537.1 M	ng/L	1.0 U	19	20	1.1 J	4.1	0.49 J	7.9	2.3	0.43 J	1.0 U	5.7	0.28 1 2
Perfluorooctanoic acid (PFOA)	EPA 537.1 M	ng/L	1.0 U	17	16	0.77 J	3.2	1.0 U	5.8	1.9 J	1.0 U	1.0 U	3.9	0.41 1 2
Perfluorononanoic acid (PFNA)	EPA 537.1 M	ng/L	1.0 U	4.4	4.3	1.0 U	1.1 J	1.0 U	1.2 J	0.79 J	1.0 U	1.0 U	1.2 J	0.35 1 2
Perfluorodecanoic acid (PFDA)	EPA 537.1 M	ng/L	1.0 U	3.8	3.9	1.0 U	1.3 J	1.0 U	0.77 J	0.69 J	1.0 U	1.0 U	1.4 J	0.29 1 2
Perfluoroundecanoic acid (PFUnA)	EPA 537.1 M	ng/L	1.0 U	0.48 J	0.52 J (1)	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.37 1 2
Perfluorododecanoic acid (PFDoA)	EPA 537.1 M	ng/L	1.0 U	0.52 J	0.56 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.48 1 2
Perfluorotridecanoic acid (PFTDA)	EPA 537.1 M	ng/L	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.24 0.7 2
Perfluorotetradecanoic acid (PFTEDA)	EPA 537.1 M	ng/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.39 1 2
Perfluorobutanesulfonic acid (PFBS)	EPA 537.1 M	ng/L	1.0 U	6.2	6.3	1.0 U	1.6 J	1.0 U	1.2 J	0.92 J	1.0 U	1.0 U	1.9 J	0.27 1 2
Perfluoropentanesulfonic acid (PFPeS)	EPA 537.1 M	ng/L	1.0 U	6.2	6.2	1.0 U	1.1 J	1.0 U	0.79 J	0.68 J	1.0 U	1.0 U	1.3 J	0.34 1 2
Perfluorohexanesulfonic acid (PFHxS)	EPA 537.1 M	ng/L	1.0 U	37	36	1.0 U	6	1.0 U	5.2	3.5	1.0 U	1.0 U	7	0.28 1 2
Perfluoroheptanesulfonic acid PFHpS	EPA 537.1 M	ng/L	1.0 U	2.2	2.3	1.0 U	0.61 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.73 J	0.43 1 2
Perfluorooctanesulfonic acid (PFOS)	EPA 537.1 M	ng/L	1.0 U	110 (2)	100 (2)	0.59 J	16	1.0 U	12	7.8	1.0 U	1.0 U	18	4.7 10 20
Perfluorononanesulfonic acid (PFNS)	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	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)	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.6 1.4 2
Perfluorooctane Sulfonamide (PFOSA)	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.4 1.4 4
MeFOSAA	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.7 1.4 4
EtFOSAA	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.54 1.4 4
4:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	0.79 J	0.79 J (1)	1.4 U (1)	1.4 U (1)	1.4 U	0.58 J	1.4 U	1.4 U	1.4 U	1.5 J	0.47 1.4 4
6:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	36	35	1.2 J	5.3	1.4 U	11	2.9 J	1.4 U	1.4 U	74	0.63 1.4 4
8:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	6.4	6.1	1.4 U	1.5 J	1.4 U	0.76 J	1.4 U	1.4 U	1.4 U	3.3 J	0.53 1.4 4
Hexafluoropropyleneoxide dimer acid	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.41 1.4 4
4,8-Dioxo-3H-perfluorononanoic acid	EPA 537.1 M	ng/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.42 J	0.12 0.4 4
9CI-PF3ONS (F-53B Major)	EPA 537.1 M	ng/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.42 1 4
11CI-PF3OUDs (F-53B Minor)	EPA 537.1 M	ng/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.32 1 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-10252022 is a field blank.

Sample SANG-INF-10252022D is a field duplicate of SANG-INF-10252022.

(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.

Sample ports located in each of the 4 trains; A, B, C, D. such as: PBG1 = post B train GAC unit 1.

PDG1 = post A train GAC Unit 1

PDG2 = post A train GAC Unit 2

PDR1 = 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

TABLE 1 - COMBINED ANALYTICAL RESULTS

C2W0536V1_C2W0523V1 - 11/01/2022

RESULTS OF ANALYSES OF WATER

RESULTS OF ANALYSES OF WATER			VALIDATED DATA															
Bureau Veritas ID			UEM011	UEM016	UEM017	UEM013	UEM015	UEM014	UEL969	UEL968	UEL967	UEM012						
Sampling Date			2022/11/01 08:35	2022/11/01 09:10	2022/11/01 09:10	2022/11/01 08:47	2022/11/01 09:05	2022/11/01 08:56	2022/11/01 09:07	2022/11/01 08:58	2022/11/01 08:49	2022/11/01 08:40						
Sample ID			SANG-FB-11012022	SANG-INF-11012022	SANG-INF-11012022D	SANG-PAR1-11012022	SANG-PAG1-11012022	SANG-PAG2-11012022	SANG-PCG1-11012022	SANG-PCG2-11012022	SANG-PCG3-11012022	SANG-EFF-11012022	DL	LOD	LOQ			
Perfluorinated Compounds	Method	UNITS																
Perfluorobutanoic acid (PFBA)	EPA 537.1 M	ng/L	1.4 U	29	30	25	2.4	1.5 U	13	1.5 U	2.1 J	23	0.71	1.7	2.4			
Perfluoropentanoic acid (PFPeA)	EPA 537.1 M	ng/L	0.70 U	96	95	59	2.2	0.67 J	7.6	0.53 J	0.60 J	42	0.26	0.84	2.4			
Perfluorohexanoic acid (PFHxA)	EPA 537.1 M	ng/L	0.70 U	70	70	27	1.5 J	0.45 J	3.1	0.41 J	0.36 J	20	0.24	0.84	2.4			
Perfluoroheptanoic acid (PFHpA)	EPA 537.1 M	ng/L	1.0 U	37	37	10	0.80 J	0.39 J	1.5 J	0.39 J	0.38 J (1)	7.9	0.34	1.2	2.4			
Perfluorooctanoic acid (PFOA)	EPA 537.1 M	ng/L	1.0 U	32	31	7	0.58 J	1.1 U	0.99 J	1.1 U	1.1 U	6	0.49	1.2	2.4			
Perfluorononanoic acid (PFNA)	EPA 537.1 M	ng/L	0.46 J	8.3	8.2	2.0 J	1.1 U	1.1 U	0.49 J	1.1 U	1.1 U	1.7 J	0.42	1.2	2.4			
Perfluorodecanoic acid (PFDA)	EPA 537.1 M	ng/L	1.0 U	7.4	7.2	1.3 J	1.1 U	1.1 U	0.40 J	1.1 U	1.1 U	1.3 J	0.35	1.2	2.4			
Perfluoroundecanoic acid (PFUnA)	EPA 537.1 M	ng/L	1.0 U	0.68 J	0.70 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.44	1.2	2.4			
Perfluorododecanoic acid (PFDoA)	EPA 537.1 M	ng/L	1.0 U	0.89 J	0.86 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.58	1.2	2.4			
Perfluorotridecanoic acid (PFTRDA)	EPA 537.1 M	ng/L	0.70 U	0.84 U	0.84 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.29	0.84	2.4			
Perfluorotetradecanoic acid (PFTEDA)	EPA 537.1 M	ng/L	1.0 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.47	1.2	2.4			
Perfluorobutanesulfonic acid (PFBS)	EPA 537.1 M	ng/L	1.0 U	13	13	1.7 J	0.40 J	1.1 U	0.63 J	1.1 U	1.1 U	2.9	0.32	1.2	2.4			
Perfluoropentanesulfonic acid (PFPS)	EPA 537.1 M	ng/L	1.0 U	15	14	1.7 J	1.1 U	1.1 U	0.74 J	1.1 U	1.1 U	2.2 J	0.41	1.2	2.4			
Perfluorohexanesulfonic acid (PFHxS)	EPA 537.1 M	ng/L	1.0 U	77	79	8.1	1.0 J	1.1 U	2.0 J	1.1 U	1.1 U	10	0.34	1.2	2.4			
Perfluoroheptanesulfonic acid PFHpS	EPA 537.1 M	ng/L	1.0 U	4	4.1	0.53 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.67 J	0.52	1.2	2.4			
Perfluorooctanesulfonic acid (PFOS)	EPA 537.1 M	ng/L	1.0 U	210 (1)	200 (1)	24	2.2 J	1.1 U	3.8	1.1 U	1.1 U	26	4.7	10	20			
Perfluorononanesulfonic acid (PFNS)	EPA 537.1 M	ng/L	1.4 U	1.7 U	1.7 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.77	1.7	2.4			
Perfluorodecanesulfonic acid (PFDS)	EPA 537.1 M	ng/L	1.4 U	1.7 U	1.7 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.72	1.7	2.4			
Perfluorooctane Sulfonamide (PFOSA)	EPA 537.1 M	ng/L	1.4 U	0.55 J	0.55 J (2)	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.48	1.7	4.8			
MeFOSAA	EPA 537.1 M	ng/L	1.4 U	1.7 U	1.7 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.84	1.7	4.8			
EtFOSAA	EPA 537.1 M	ng/L	1.4 U	1.7 U	1.7 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.65	1.7	4.8			
4:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	1.4 J	1.4 J	0.70 J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.56	1.7	4.8			
6:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	68	68	15	0.97 J	1.5 U	1.7 J	1.5 U	1.5 U	11	0.76	1.7	4.8			
8:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	5.7	5.7	1.2 J	0.80 J	1.5 U	1.5 U	1.5 U	1.5 U	1.3 J	0.64	1.7	4.8			
Hexafluoropropyleneoxide dimer acid	EPA 537.1 M	ng/L	1.4 U	1.7 U	1.7 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.49	1.7	4.8			
4,8-Dioxo-3H-perfluorononanoic acid	EPA 537.1 M	ng/L	0.40 U	0.48 U	0.48 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.14	0.48	4.8			
9CI-PF3ONS (F-53B Major)	EPA 537.1 M	ng/L	1.0 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.5	1.2	4.8			
11CI-PF3OUdS (F-53B Minor)	EPA 537.1 M	ng/L	1.0 U	1.2 U	1.2 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.38	1.2	4.8			

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-11012022 is a field blank.

Sample SANG-INF-11012022D is a field duplicate of SANG-INF-11012022.

(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.

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

TABLE 1 - COMBINED ANALYTICAL RESULTS

C2X6302V1_C2X6298V1 - 11/15/2022

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID			VALIDATED DATA												
Sampling Date			UHZ237	UHZ242	UHZ243	UHZ239	UHZ241	UHZ240	UHZ219	UHZ218	UHZ217	UHZ238			
Sample ID			2022/11/15 10:20	2022/11/15 10:55	2022/11/15 10:55	2022/11/15 10:32	2022/11/15 10:45	2022/11/15 10:40	2022/11/15 10:47	2022/11/15 10:42	2022/11/15 10:34	2022/11/15 10:25			
Sample ID			SANG-FB-11152022	SANG-INF-11152022	SANG-INF-11152022D	SANG-PBR1-11152022	SANG-PBG1-11152022	SANG-PBG2-11152022	SANG-PAG1-11152022	SANG-PAG2-11152022	SANG-PAG3-11152022	SANG-EFF-11152022	DL	LOD	LOQ
Perfluorinated Compounds	Method	UNITS													
Perfluorobutanoic acid (PFBA)	EPA 537.1 M	ng/L	1.4 U	26	26	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.59	1.4	2
Perfluoropentanoic acid (PFPeA)	EPA 537.1 M	ng/L	0.70 U	85	87	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.22	0.7	2
Perfluorohexanoic acid (PFHxA)	EPA 537.1 M	ng/L	0.70 U	63	63	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.2	0.7	2
Perfluoroheptanoic acid (PFHpA)	EPA 537.1 M	ng/L	1.0 U	33	34	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.28	1	2
Perfluorooctanoic acid (PFOA)	EPA 537.1 M	ng/L	1.0 U	29	29	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.41	1	2
Perfluorononanoic acid (PFNA)	EPA 537.1 M	ng/L	1.0 U	6.9	6.9	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.35	1	2
Perfluorodecanoic acid (PFDA)	EPA 537.1 M	ng/L	1.0 U	6.3	6.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.29	1	2
Perfluoroundecanoic acid (PFUnA)	EPA 537.1 M	ng/L	1.0 U	0.53 J	0.51 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.37	1	2
Perfluorododecanoic acid (PFDoA)	EPA 537.1 M	ng/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.48	1	2
Perfluorotridecanoic acid (PFTnDA)	EPA 537.1 M	ng/L	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.24	0.7	2
Perfluorotetradecanoic acid (PFTEDA)	EPA 537.1 M	ng/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.39	1	2
Perfluorobutanesulfonic acid (PFBS)	EPA 537.1 M	ng/L	1.0 U	12	12	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.27	1	2
Perfluoropentanesulfonic acid (PFPeS)	EPA 537.1 M	ng/L	1.0 U	13	13	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34	1	2
Perfluorohexanesulfonic acid (PFHxS)	EPA 537.1 M	ng/L	1.0 U	72	71	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.28	1	2
Perfluoroheptanesulfonic acid PFHpS	EPA 537.1 M	ng/L	1.0 U	3.7	3.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.43	1	2
Perfluorooctanesulfonic acid (PFOS)	EPA 537.1 M	ng/L	1.0 U	200 (1)	210 (1)	0.99 J	0.72 J	0.65 J	0.96 J	0.89 J	0.95 J	1.0 J	4.7	10	20
Perfluorononanesulfonic acid (PFNS)	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	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)	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.6	1.4	2
Perfluorooctane Sulfonamide (PFOSA)	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.4	1.4	4
MeFOSAA	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.7	1.4	4
EtFOSAA	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.54	1.4	4
4:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	1.2 J	1.1 J	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.47	1.4	4
6:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	63	64	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.63	1.4	4
8:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	9	8.7	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.53	1.4	4
Hexafluoropropyleneoxide dimer acid	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.41	1.4	4
4,8-Dioxo-3H-perfluorononanoic acid	EPA 537.1 M	ng/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.12	0.4	4
9CI-PF3ONS (F-53B Major)	EPA 537.1 M	ng/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.42	1	4
11CI-PF3OUDS (F-53B Minor)	EPA 537.1 M	ng/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.32	1	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-11152022 is a field blank.

Sample SANG-INF-11152022D is a field duplicate of SANG-INF-11152022.

(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.

Sample ports located in each of the 4 trains; A, B, C, D. such as: PBG1 = post B train GAC unit 1.

PBG1 = post A train GAC Unit 1

PBG2 = post A train GAC Unit 2

PBR1 = 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

TABLE 1 - COMBINED ANALYTICAL RESULTS

C2Y4044V1_C2Y4053V1 - 11/22/2022

RESULTS OF ANALYSES OF WATER

			VALIDATED DATA												
Bureau Veritas ID			UJR457	UJR462	UJR463	UJR459	UJR461	UJR460	UJR521	UJR520	UJR519	UJR458			
Sampling Date			2022/11/22 08:00	2022/11/22 08:30	2022/11/22 08:30	2022/11/22 08:10	2022/11/22 08:23	2022/11/22 08:18	2022/11/22 08:25	2022/11/22 08:20	2022/11/22 08:13	2022/11/22 08:05			
Sample ID			SANG-FB-11222022	SANG-INF-11222022	SANG-INF-11222022D	SANG-PDR1-11222022	SANG-PDG1-11222022	SANG-PDG2-11222022	SANG-PCG1-11222022	SANG-PCG2-11222022	SANG-PCG3-11222022	SANG-EFF-11222022	DL	LOD	LOQ
Perfluorinated Compounds	Method	UNITS													
Perfluorobutanoic acid (PFBA)	EPA 537.1 M	ng/L	1.4 U	34	34	1.5 U	1.5 U	12	1.5 U	1.5 U	1.5 U	1.5 U	0.65	1.5	2.2
Perfluoropentanoic acid (PFPeA)	EPA 537.1 M	ng/L	0.70 U	110 (1)	110 (1)	0.77 U	0.77 U	29	0.77 U	0.77 U	0.77 U	0.77 U	2.2	7	20
Perfluorohexanoic acid (PFHxA)	EPA 537.1 M	ng/L	0.70 U	92	91	0.77 U	0.77 U	24	0.77 U	0.77 U	0.77 U	0.77 U	0.22	0.77	2.2
Perfluoroheptanoic acid (PFHpA)	EPA 537.1 M	ng/L	1.0 U	46	45	1.1 U	1.1 U	1.6 J	1.1 U	1.1 U	1.1 U	1.1 U	0.31	1.1	2.2
Perfluorooctanoic acid (PFOA)	EPA 537.1 M	ng/L	1.0 U	44	44	1.1 U	1.1 U	1.1 J	1.1 U	1.1 U	1.1 U	1.1 U	0.45	1.1	2.2
Perfluorononanoic acid (PFNA)	EPA 537.1 M	ng/L	1.0 U	9.5	9.4	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.39	1.1	2.2
Perfluorodecanoic acid (PFDA)	EPA 537.1 M	ng/L	1.0 U	10	10	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.32	1.1	2.2
Perfluoroundecanoic acid (PFUnA)	EPA 537.1 M	ng/L	1.0 U	0.65 J	0.69 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.41	1.1	2.2
Perfluorododecanoic acid (PFDoA)	EPA 537.1 M	ng/L	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.53	1.1	2.2
Perfluorotridecanoic acid (PFTRDA)	EPA 537.1 M	ng/L	0.70 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.26	0.77	2.2
Perfluorotetradecanoic acid (PFTEDA)	EPA 537.1 M	ng/L	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.43	1.1	2.2
Perfluorobutanesulfonic acid (PFBS)	EPA 537.1 M	ng/L	1.0 U	13	14	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.3	1.1	2.2
Perfluoropentanesulfonic acid (PFPeS)	EPA 537.1 M	ng/L	1.0 U	15	15	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.37	1.1	2.2
Perfluorohexanesulfonic acid (PFHxS)	EPA 537.1 M	ng/L	1.0 U	97	97	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.31	1.1	2.2
Perfluoroheptanesulfonic acid PFHpS	EPA 537.1 M	ng/L	1.0 U	4.7	5	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.47	1.1	2.2
Perfluorooctanesulfonic acid (PFOS)	EPA 537.1 M	ng/L	1.0 U	260 (1)	240 (1)	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	4.7	10	20
Perfluorononanesulfonic acid (PFNS)	EPA 537.1 M	ng/L	1.4 U	1.5 U	1.5 U	1.5 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)	EPA 537.1 M	ng/L	1.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.66	1.5	2.2
Perfluorooctane Sulfonamide (PFOSA)	EPA 537.1 M	ng/L	1.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.44	1.5	4.4
MeFOSAA	EPA 537.1 M	ng/L	1.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.77	1.5	4.4
EtFOSAA	EPA 537.1 M	ng/L	1.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.59	1.5	4.4
4:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	1.1 J	1.2 J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.52	1.5	4.4
6:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	92	93	1.5 U	1.5 U	1.9 J	1.5 U	1.5 U	1.5 U	1.5 U	0.69	1.5	4.4
8:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	15	14	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.58	1.5	4.4
Hexafluoropropyleneoxide dimer acid	EPA 537.1 M	ng/L	1.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.45	1.5	4.4
4,8-Dioxo-3H-perfluorononanoic acid	EPA 537.1 M	ng/L	0.40 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.13	0.44	4.4
9CI-PF3ONS (F-53B Major)	EPA 537.1 M	ng/L	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.46	1.1	4.4
11CI-PF3OUDS (F-53B Minor)	EPA 537.1 M	ng/L	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.35	1.1	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-11222022 is a field blank.

Sample SANG-INF-11222022D is a field duplicate of SANG-INF-11222022.

(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.

Sample ports located in each of the 4 trains; A, B, C, D. such as: PBG1= post B train GAC unit 1.

PDG1 = post A train GAC Unit 1

PDG2 = post A train GAC Unit 2

PDR1 = 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

TABLE 1 - COMBINED ANALYTICAL RESULTS

C2Z1602V1_C2Z1607V1 - 11/29/2022

RESULTS OF ANALYSES OF WATER

VALIDATED DATA

Bureau Veritas ID			ULJ961	ULJ966	ULJ967	ULJ963	ULJ965	ULJ964	ULK019	ULK018	ULK017	ULJ962			
Sampling Date			2022/11/29 08:30	2022/11/29 09:15	2022/11/29 09:15	2022/11/29 08:44	2022/11/29 09:05	2022/11/29 08:55	2022/11/29 09:07	2022/11/29 08:57	2022/11/29 08:46	2022/11/29 08:35			
Sample ID			SANG-FB-11292022	SANG-INF-11292022	SANG-INF-11292022D	SANG-PBR1-11292022	SANG-PBG1-11292022	SANG-PBG2-11292022	SANG-PAG1-11292022	SANG-PAG2-11292022	SANG-PAG3-11292022	SANG-EFF-11292022	DL	LOD	LOQ
Perfluorinated Compounds	Method	UNITS													
Perfluorobutanoic acid (PFBA)	EPA 537.1 M	ng/L	1.4 U	21	20	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.65	1.5	2.2
Perfluoropentanoic acid (PFPeA)	EPA 537.1 M	ng/L	0.70 U	77	75	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.24	0.77	2.2
Perfluorohexanoic acid (PFHxA)	EPA 537.1 M	ng/L	0.70 U	58	56	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.22	0.77	2.2
Perfluoroheptanoic acid (PFHpA)	EPA 537.1 M	ng/L	1.0 U	30	29	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.31	1.1	2.2
Perfluorooctanoic acid (PFOA)	EPA 537.1 M	ng/L	1.0 U	29	28	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.45	1.1	2.2
Perfluorononanoic acid (PFNA)	EPA 537.1 M	ng/L	1.0 U	6.4	6.1	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.39	1.1	2.2
Perfluorodecanoic acid (PFDA)	EPA 537.1 M	ng/L	1.0 U	7.7	7.6	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.32	1.1	2.2
Perfluoroundecanoic acid (PFUnA)	EPA 537.1 M	ng/L	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.41	1.1	2.2
Perfluorododecanoic acid (PFDoA)	EPA 537.1 M	ng/L	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.53	1.1	2.2
Perfluorotridecanoic acid (PFTDA)	EPA 537.1 M	ng/L	0.70 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.26	0.77	2.2
Perfluorotetradecanoic acid (PFTEDA)	EPA 537.1 M	ng/L	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.43	1.1	2.2
Perfluorobutanesulfonic acid (PFBS)	EPA 537.1 M	ng/L	1.0 U	8.8	8.7	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.3	1.1	2.2
Perfluoropentanesulfonic acid PFPS	EPA 537.1 M	ng/L	1.0 U	9.4	9.8	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.37	1.1	2.2
Perfluorohexanesulfonic acid (PFHxS)	EPA 537.1 M	ng/L	1.0 U	62	61	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.31	1.1	2.2
Perfluoroheptanesulfonic acid PFHpS	EPA 537.1 M	ng/L	1.0 U	2.8	2.6	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.47	1.1	2.2
Perfluorooctanesulfonic acid (PFOS)	EPA 537.1 M	ng/L	1.0 U	190 (1)	180 (1)	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	4.7	10	20
Perfluorononanesulfonic acid (PFNS)	EPA 537.1 M	ng/L	1.4 U	1.5 U	1.5 U	1.5 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
Perfluorodecane sulfonic acid (PFDS)	EPA 537.1 M	ng/L	1.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.66	1.5	2.2
Perfluorooctane Sulfonamide (PFOSA)	EPA 537.1 M	ng/L	1.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.44	1.5	4.4
MeFOSAA	EPA 537.1 M	ng/L	1.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.77	1.5	4.4
EtFOSAA	EPA 537.1 M	ng/L	1.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.59	1.5	4.4
4:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.52	1.5	4.4
6:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	58	58	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.69	1.5	4.4
8:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	11	11	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.58	1.5	4.4
Hexafluoropropyleneoxide dimer acid	EPA 537.1 M	ng/L	1.4 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.45	1.5	4.4
4,8-Dioxa-3H-perfluorononanoic acid	EPA 537.1 M	ng/L	0.40 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.13	0.44	4.4
9CI-PF3ONS (F-53B Major)	EPA 537.1 M	ng/L	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.46	1.1	4.4
11CI-PF3OUs (F-53B Minor)	EPA 537.1 M	ng/L	1.0 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.35	1.1	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-11292022 is a field blank.

Sample SANG-INF-11292022D is a field duplicate of SANG-INF-11292022.

(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.

Sample ports located in each of the 4 trains; A, B, C, D, such as: PBG1= post B train GAC unit 1.

PBG1 = post A train GAC Unit 1

PBG2 = post A train GAC Unit 2

PBR1 = 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

TABLE 1 - COMBINED ANALYTICAL RESULTS

C2Z8970_C2Z8975 - 12/06/2022

RESULTS OF ANALYSES OF WATER

RESULTS OF ANALYSES OF WATER			Validated												
Bureau Veritas ID			UMZ843	UMZ848	UMZ849	UMZ845	UMZ847	UMZ846	UMZ873	UMZ872	UMZ871	UMZ844			
Sampling Date			2022/12/06 08:30	2022/12/06 09:07	2022/12/06 09:07	2022/12/06 08:42	2022/12/06 09:02	2022/12/06 08:53	2022/12/06 09:04	2022/12/06 08:55	2022/12/06 08:44	2022/12/06 08:35			
Sample ID			SANG-FB-12062022	SANG-INF-12062022	SANG-INF-12062022D	SANG-PDR1-12062022	SANG-PDG1-12062022	SANG-PDG2-12062022	SANG-PCG1-12062022	SANG-PCG2-12062022	SANG-PCG3-12062022	SANG-EFF-12062022	DL	LOD	LOQ
Perfluorinated Compounds	Method	UNITS													
Perfluorobutanoic acid (PFBA)	EPA 537.1 M	ng/L	1.4 U	27	26	1.4 U	1.4 U	12	1.4 U	1.4 U	1.4 U	1.3 J	0.59	1.4	2
Perfluoropentanoic acid (PFPeA)	EPA 537.1 M	ng/L	0.70 U	89	87	0.70 U	0.41 J	33	0.34 J	0.70 U	0.70 U	1.9 J	0.22	0.7	2
Perfluorohexanoic acid (PFHxA)	EPA 537.1 M	ng/L	0.70 U	71	69	0.70 U	0.39 J (1)	29	0.39 J (1)	0.70 U	0.70 U	1.2 J	0.2	0.7	2
Perfluoroheptanoic acid (PFHpA)	EPA 537.1 M	ng/L	1.0 U	37	35	1.0 U	0.34 J	1.8 J	1.0 U	1.0 U	1.0 U	0.65 J	0.28	1	2
Perfluorooctanoic acid (PFOA)	EPA 537.1 M	ng/L	1.0 U	34	33	1.0 U	1.0 U	1.8 J	1.0 U	1.0 U	1.0 U	0.60 J	0.41	1	2
Perfluorononanoic acid (PFNA)	EPA 537.1 M	ng/L	1.0 U	7.9	7.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.35	1	2
Perfluorodecanoic acid (PFDA)	EPA 537.1 M	ng/L	1.0 U	9.4	9.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34 J (1)	0.29	1	2
Perfluoroundecanoic acid (PFUnA)	EPA 537.1 M	ng/L	1.0 U	0.77 J	0.76 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.37	1	2
Perfluorododecanoic acid (PFDoA)	EPA 537.1 M	ng/L	1.0 U	0.74 J	0.71 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.48	1	2
Perfluorotridecanoic acid (PFTRDA)	EPA 537.1 M	ng/L	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.70 U	0.24	0.7	2
Perfluorotetradecanoic acid (PFTEDA)	EPA 537.1 M	ng/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.39	1	2
Perfluorobutanesulfonic acid (PFBS)	EPA 537.1 M	ng/L	1.0 U	11	11	1.0 U	1.0 U	0.49 J	1.0 U	1.0 U	1.0 U	1.0 U	0.27	1	2
Perfluoropentanesulfonic acid (PFPeS)	EPA 537.1 M	ng/L	1.0 U	15	14	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34	1	2
Perfluorohexanesulfonic acid (PFHxS)	EPA 537.1 M	ng/L	1.0 U	78	77	1.0 U	1.0 U	0.36 J	1.0 U	1.0 U	1.0 U	0.51 J	0.28	1	2
Perfluoroheptanesulfonic acid PFHpS	EPA 537.1 M	ng/L	1.0 U	4.5	4.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.43	1	2
Perfluorooctanesulfonic acid (PFOS)	EPA 537.1 M	ng/L	1.0 U	200 (2)	200 (2)	1.0 U	0.57 J	1.0 U	2.8	0.48 J	1.0 U	1.5 J	0.47	1	20
Perfluorononanesulfonic acid (PFNS)	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	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)	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.6	1.4	2
Perfluorooctane Sulfonamide (PFOSA)	EPA 537.1 M	ng/L	1.4 U	0.50 J (1)	0.50 J (1)	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.4	1.4	4
MeFOSAA	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.7	1.4	4
EtFOSAA	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.54	1.4	4
4:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	1.3 J	1.2 J	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.47	1.4	4
6:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	76	72	1.4 U	1.4 U	2.5 J	1.4 U	1.4 U	1.4 U	1.4 U	0.63	1.4	4
8:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	14	14	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.55 J (1)	0.53	1.4	4
Hexafluoroisopropyleneoxide dimer acid	EPA 537.1 M	ng/L	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	0.41	1.4	4
4,8-Dioxo-3H-perfluorononanoic acid	EPA 537.1 M	ng/L	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.40 U	0.12	0.4	4
9CI-PF3ONS (F-53B Major)	EPA 537.1 M	ng/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.42	1	4
11CI-PF3OUDS (F-53B Minor)	EPA 537.1 M	ng/L	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.32	1	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-12062022 is a field blank.

Sample SANG-INF-12062022D is a field duplicate of SANG-INF-12062022.

(1) Result is estimated as analyte confirmation criteria (Ion ratio) were not met.

(2) Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was adjusted accordingly (10x).

Sample ports located in each of the 4 trains; A, B, C, D, such as: PBG1= post B train GAC unit 1.

PDG1 = post A train GAC Unit 1

PDG2 = post A train GAC Unit 2

PDR1 = 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

TABLE 1 - COMBINED ANALYTICAL RESULTS

C2AG859_C2AG849 - 12/13/2022

RESULTS OF ANALYSES OF WATER

Validated

Bureau Veritas ID			UOV687	UOV692	UOV693	UOV689	UOV691	UOV690	UOV659	UOV658	UOV657	UOV688			
Sampling Date			2022/12/13 08:30	2022/12/13 09:05	2022/12/13 09:05	2022/12/13 08:42	2022/12/13 08:58	2022/12/13 08:50	2022/12/13 09:00	2022/12/13 08:52	2022/12/13 08:44	2022/12/13 08:35			
Sample ID			SANG-FB-12132022	SANG-INF-12132022	SANG-INF-12132022D	SANG-PBR1-12132022	SANG-PBG1-12132022	SANG-PBG2-12132022	SANG-PAG1-12132022	SANG-PAG2-12132022	SANG-PAG3-12132022	SANG-EFF-12132022	DL	LOD	LOQ
Perfluorinated Compounds	Method	UNITS													
Perfluorobutanoic acid (PFBA)	EPA 537.1 M	ng/L	1.4 U	26	26	1.5 U	1.4 J	1.5 U	0.69 J	1.5 U	1.5 U	2.1 J	0.77	1.8	2.6
Perfluoropentanoic acid (PFPeA)	EPA 537.1 M	ng/L	0.70 U	93	92	0.68 J	0.75 J	0.77 U	0.80 J	0.77 U	0.77 U	2.7	0.29	0.91	2.6
Perfluorohexanoic acid (PFHxA)	EPA 537.1 M	ng/L	0.54 J	73	71	0.57 J (1)	0.57 J	0.77 U	0.64 J	0.77 U	0.77 U	1.5 J	0.26	0.91	2.6
Perfluoroheptanoic acid (PFHpA)	EPA 537.1 M	ng/L	1.0 U	38	37	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.94 J	0.36	1.3	2.6
Perfluorooctanoic acid (PFOA)	EPA 537.1 M	ng/L	1.0 U	35	35	0.53 J	1.1 U	1.1 U	0.52 J	1.1 U	1.1 U	0.76 J	0.53	1.3	2.6
Perfluorononanoic acid (PFNA)	EPA 537.1 M	ng/L	1.0 U	8	7.9	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.59 J	0.46	1.3	2.6
Perfluorodecanoic acid (PFDA)	EPA 537.1 M	ng/L	1.0 U	8.3	8.5	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.60 J	0.38	1.3	2.6
Perfluoroundecanoic acid (PFUnA)	EPA 537.1 M	ng/L	1.0 U	0.98 J	1.1 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.48	1.3	2.6
Perfluorododecanoic acid (PFDoA)	EPA 537.1 M	ng/L	1.0 U	0.99 J	1.1 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.62	1.3	2.6
Perfluorotridecanoic acid (PFTRDA)	EPA 537.1 M	ng/L	0.70 U	0.77 U	0.91 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.31	0.91	2.6
Perfluorotetradecanoic acid (PFTEDA)	EPA 537.1 M	ng/L	1.0 U	1.1 U	1.3 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.51	1.3	2.6
Perfluorobutanesulfonic acid (PFBS)	EPA 537.1 M	ng/L	1.0 U	13	13	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.35	1.3	2.6
Perfluoropentanesulfonic acid (PFPeS)	EPA 537.1 M	ng/L	1.0 U	14	13	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.44	1.3	2.6
Perfluorohexanesulfonic acid (PFHxS)	EPA 537.1 M	ng/L	1.0 U	85	87	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.36	1.3	2.6
Perfluoroheptanesulfonic acid PFHpS	EPA 537.1 M	ng/L	1.0 U	5.1	5	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.56	1.3	2.6
Perfluorooctanesulfonic acid (PFOS)	EPA 537.1 M	ng/L	0.93 J (1)	250 (2)	270 (2)	1.2 J	0.94 J	0.92 J	1.3 J	1.2 J (1)	0.75 J	1.8 J	4.7	10	20
Perfluorononanesulfonic acid (PFNS)	EPA 537.1 M	ng/L	1.4 U	1.5 U	1.8 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.83	1.8	2.6
Perfluorodecanesulfonic acid (PFDS)	EPA 537.1 M	ng/L	1.4 U	1.5 U	1.8 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.78	1.8	2.6
Perfluorooctane Sulfonamide (PFOSA)	EPA 537.1 M	ng/L	1.4 U	0.77 J (1)	0.86 J (1)	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.52	1.8	5.2
MeFOSAA	EPA 537.1 M	ng/L	1.4 U	1.5 U	1.8 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.91	1.8	5.2
EtFOSAA	EPA 537.1 M	ng/L	1.4 U	1.5 U	1.8 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.7	1.8	5.2
4:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	1.6 J	1.6 J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.61	1.8	5.2
6:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	78	79	1.5 U	1.5 U	1.5 U	0.75 J	1.5 U	1.5 U	1.2 J	0.82	1.8	5.2
8:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.4 U	13	14	1.5 U	0.68 J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.69	1.8	5.2
Hexafluoropropyleneoxide dimer acid	EPA 537.1 M	ng/L	1.4 U	1.5 U	1.8 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.53	1.8	5.2
4,8-Dioxo-3H-perfluorononanoic acid	EPA 537.1 M	ng/L	0.40 U	0.44 U	0.52 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.16	0.52	5.2
9CI-PF3ONS (F-53B Major)	EPA 537.1 M	ng/L	1.0 U	1.1 U	1.3 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.55	1.3	5.2
11CI-PF3OUDS (F-53B Minor)	EPA 537.1 M	ng/L	1.0 U	1.1 U	1.3 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.42	1.3	5.2

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-12132022 is a field blank.

Sample SANG-INF-12132022D is a field duplicate of SANG-INF-12132022.

(1) Result is estimated as analyte confirmation criteria (Ion ratio) were not met.

(2) 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.

Sample ports located in each of the 4 trains; A, B, C, D, such as: PBG1 = post B train GAC unit 1.

PBG1 = post A train GAC Unit 1

PBG2 = post A train GAC Unit 2

PBR1 = 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

TABLE 1 - COMBINED ANALYTICAL RESULTS

C2A0691V1_C2A0686V1 - 12/20/2022

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID			Validated													
Sampling Date			UQ0323D3-R5D3-Q5	UQ0328	UQ0329	UQ0325	UQ0327	UQ0358	UQ0326	UQ0357	UQ0356	UQ0355	UQ0324			
Sample ID			2022/12/20 08:10	2022/12/20 08:50	2022/12/20 08:50	2022/12/20 08:25	2022/12/20 08:40	2022/12/15 09:45	2022/12/20 08:32	2022/12/20 08:43	2022/12/20 08:35	2022/12/20 08:28	2022/12/20 08:18			
Sample ID			SANG-FB-12202022	SANG-INF-12202022	SANG-INF-12202022D	SANG-PDR1-12202022	SANG-PDG1-12202022	SANG-PDG2-12152022	SANG-PDG2-12202022	SANG-PCG1-12202022	SANG-PCG2-12202022	SANG-PCG3-12202022	SANG-EFF-12202022	DL	LOD	LOQ
Perfluorinated Compounds	Method	UNITS														
Perfluorobutanoic acid (PFBA)	EPA 537.1 M	ng/L	1.5 U	23	23	1.5 U	0.70 J	13	12	1.5 U	1.5 U	1.5 U	2.2	0.65	1.5	2.2
Perfluoropentanoic acid (PFPeA)	EPA 537.1 M	ng/L	0.77 U	85	83	0.77 U	0.87 J	34	33	0.36 J	0.43 J	0.77 U	2.8	0.24	0.77	2.2
Perfluorohexanoic acid (PFHxA)	EPA 537.1 M	ng/L	0.77 U	68	67	0.77 U	0.60 J	31	32	0.32 J	0.34 J	0.31 J	1.4 J	0.22	0.77	2.2
Perfluorooheptanoic acid (PFHpA)	EPA 537.1 M	ng/L	1.1 U	37	35	0.38 J	0.48 J	2.0 J	1.9 J	0.38 J (1)	0.38 J (1)	1.1 U	0.78 J	0.31	1.1	2.2
Perfluorooctanoic acid (PFOA)	EPA 537.1 M	ng/L	1.1 U	35	34	1.1 U	1.1 U	1.8 J	1.7 J	1.1 U	1.1 U	1.1 U	0.60 J	0.45	1.1	2.2
Perfluorononanoic acid (PFNA)	EPA 537.1 M	ng/L	1.1 U	8.3	8.1	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.39	1.1	2.2
Perfluorodecanoic acid (PFDA)	EPA 537.1 M	ng/L	1.1 U	9.4	9.3	1.1 U	0.33 J	0.36 J	0.37 J	1.1 U	1.1 U	1.1 U	0.36 J	0.32	1.1	2.2
Perfluoroundecanoic acid (PFUnA)	EPA 537.1 M	ng/L	1.1 U	0.97 J	0.87 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.41	1.1	2.2
Perfluorododecanoic acid (PFDoA)	EPA 537.1 M	ng/L	1.1 U	0.81 J	0.75 J	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.53	1.1	2.2
Perfluorotridecanoic acid (PFTTrDA)	EPA 537.1 M	ng/L	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.77 U	0.26	0.77	2.2
Perfluorotetradecanoic acid (PFTEDA)	EPA 537.1 M	ng/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.43	1.1	2.2
Perfluorobutanesulfonic acid (PFBS)	EPA 537.1 M	ng/L	1.1 U	12	11	1.1 U	1.1 U	0.53 J	0.48 J	1.1 U	1.1 U	1.1 U	1.1 U	0.3	1.1	2.2
Perfluoropentanesulfonic acid (PFPS)	EPA 537.1 M	ng/L	1.2 U	15	16	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.34	1	2
Perfluorohexanesulfonic acid (PFHxS)	EPA 537.1 M	ng/L	1.1 U	85	82	1.1 U	1.1 U	0.49 J	1.1 U	1.1 U	1.1 U	1.1 U	0.56 J	0.31	1.1	2.2
Perfluoroheptanesulfonic acid PFHpS	EPA 537.1 M	ng/L	1.1 U	4.4	4.2	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.47	1.1	2.2
Perfluorooctanesulfonic acid (PFOS)	EPA 537.1 M	ng/L	1.1 U	230 (2)	250 (2)	1.1 J (1)	1.6 J	1.8 J (1)	1.8 J (1)	1.0 J (1)	1.1 U	1.4 J (1)	2.8 (1)	4.7	10	20
Perfluorononanesulfonic acid (PFNS)	EPA 537.1 M	ng/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 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)	EPA 537.1 M	ng/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.66	1.5	2.2
Perfluorooctane Sulfonamide (PFOSA)	EPA 537.1 M	ng/L	1.5 U	0.60 J	0.57 J (1)	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.44	1.5	4.4
MeFOSAA	EPA 537.1 M	ng/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.77	1.5	4.4
EFOSAA	EPA 537.1 M	ng/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.59	1.5	4.4
4:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.5 U	1.3 J	1.3 J	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.52	1.5	4.4
6:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.5 U	74	73	1.5 U	1.5 U	2.6 J	2.3 J	1.5 U	1.5 U	1.5 U	1.5 U	0.69	1.5	4.4
8:2 Fluorotelomer sulfonic acid	EPA 537.1 M	ng/L	1.5 U	16	16	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.58	1.5	4.4
Hexafluoropropyleneoxide dimer acid	EPA 537.1 M	ng/L	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	1.5 U	0.45	1.5	4.4
4,8-Dioxo-3H-perfluorononanoic acid	EPA 537.1 M	ng/L	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.44 U	0.13	0.44	4.4
9CI-PF3ONS (F-538 Major)	EPA 537.1 M	ng/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.46	1.1	4.4
11CI-PF3OUdS (F-538 Minor)	EPA 537.1 M	ng/L	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U	0.35	1.1	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-12202022 is a field blank.

Sample SANG-INF-12202022D is a field duplicate of SANG-INF-12202022.

(1) Result is estimated as analyte confirmation criteria (ion ratio) were not met.

(2) 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.

Sample ports located in each of the 4 trains; A, B, C, D. such as: PBG1 = post B train GAC unit 1.

PDG1 = post A train GAC Unit 1

PDG2 = post A train GAC Unit 2

PDR1 = 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

TABLE 2 - OTHER WATER QUALITY MONITORING RESULTS

Glycols				
Sample Parameter/Sample ID	Sampling Date	Influent (SANG-INF-11292022 mg/L)	PBG2 Effluent (SANG-PBG2-11292022 mg/L)	Effluent (SANG-EFF-11292022 mg/L)
Diethylene glycol	11/29/2022	<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)	PDG2 Effluent (mg/L)	Effluent (mg/L)
TOC	11/29/2022	2.50	0.90	0.67

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 or Changeout	Media Change Out	Resin Vessel Skimming
10/3/2022	25 Micron Pleated	10 Micron Pleated	Primary Carbon vessels A, B, C, & D			
10/4/2022		10 Micron Pleated & 10 Micron Regular				Skimmed approx. 8" off Resin vessel D and 3" off Resin vessel B
10/5/2022		10 Micron Regular				Skimmed approx 6" off Resin vessel Train A
10/6/2022		10 Micron Regular		Fine Sand Filters (5A/5B)		
10/7/2022			Primary Carbon vessels A, B, C, & D			
10/10/2022	25 Micron Regular	10 Micron Pleated	Primary Carbon vessels A, B, C, & D			
10/11/2022		10 Micron Regular	Secondary Carbon vessels A, B, C, & D			
10/12/2022		10 Micron Regular				
10/13/2022		10 Micron Regular		Coarse Sand Filters (1A/1B & 2A/2B)		
10/14/2022	25 Micron Pleated					
10/17/2022			Primary Carbon vessels A, B, C, & D			
10/18/2022		10 Micron Regular				
10/19/2022		10 Micron Regular				
10/20/2022		10 Micron Regular		Fine Sand Filters (3A/3B)		
10/21/2022	25 Micron Pleated		Primary 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 or Changeout	Media Change Out	Resin Vessel Skimming
10/24/2022		10 Micron Pleated				
10/25/2022				Fine Sand Filters (4A/4B)		
10/27/2022			Secondary Carbon vessels A, B, C, & D			
10/28/2022			Primary Carbon vessels A, B, C, & D			
10/31/2022	25 Micron Pleated	10 Micron Regular				
11/1/2022		10 Micron Regular		Fine Sand Filters (5A/5B)		
11/2/2022		10 Micron Regular	Primary Carbon vessels A, B, C, & D			
11/3/2022		10 Micron Regular	Secondary Carbon vessels A, B, C, & D			
11/7/2022		10 Micron Regular			Initiate GAC & IX Media Changeout	
11/8/2022	25 Micron Regular	10 Micron Regular	Train B GAC - B1 & B2		Train B (GAC-GAC-IX) Media change complete and new media put back	
11/9/2022		10 Micron Regular	Train A GAC - A1, 2 & 3		Train A (GAC-GAC-GAC) Media change complete and new media put back in service	
11/10/2022			Train D GAC - D1 & D2		Train D (GAC-GAC-IX) Media change complete and new media put back in service	
11/11/2022	25 Micron Pleated	10 Micron Pleated	Train C GAC - C1, 2 & 3		Train C (GAC-GAC-GAC) Media change complete and new media put back in service	
11/12/2022		10 Micron Regular				

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 or Changeout	Media Change Out	Resin Vessel Skimming
11/14/2022		10 Micron Regular				
11/16/2022		10 Micron Regular	Primary Carbon vessels A1, B1, C1, & D1			
11/17/2022				Coarse Sand Filters (1A/1B)		
11/18/2022		10 Micron Pleated				
11/22/2022			Secondary Carbon vessels A2, B2, C2, & D2			
11/23/2022	25 Micron Pleated	10 Micron Pleated	Primary Carbon vessels A1, B1, C1, & D1			
11/28/2022			Primary Carbon vessels A1, B1, C1, & D2			
11/29/2022		10 Micron Pleated				
11/30/2022				Fine Sand Filters (2A/2B)		
12/2/2022		10 Micron Pleated				
12/7/2022			Secondary Carbon vessels A2, B2, C2, & D2			
12/8/2022				Fine Sand Filters (3A/3B)		
12/9/2022	25 Micron Pleated	10 Micron Pleated				
12/13/2022				Fine Sand Filters (4A/4B)		
12/14/2022			Primary Carbon vessels A1, B1, C1, & D1			

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 or Changeout	Media Change Out	Resin Vessel Skimming
12/19/2022		10 Micron Regular	Primary Carbon vessels A1, B1, C1, & D1			
12/21/2022				Fine Sand Filters (5A/5B)		
12/22/2022	25 Micron Pleated	10 Micron Pleated				

FIGURES

FIGURE 1

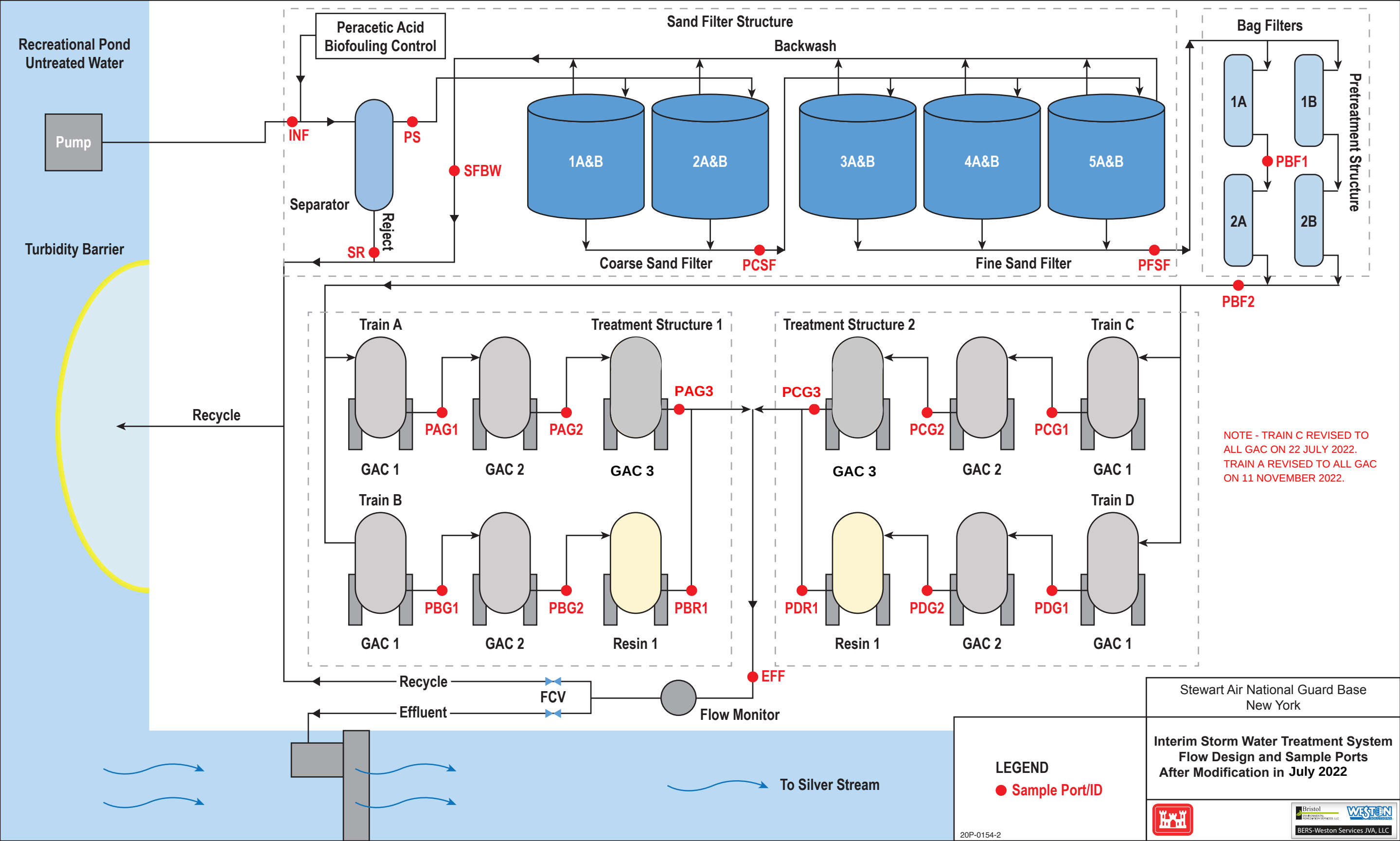


FIGURE 2 - RECREATION POND LEVEL CHART
OCTOBER TO DECEMBER 2022
ISWTS SANGB - RECREATION POND LEVEL

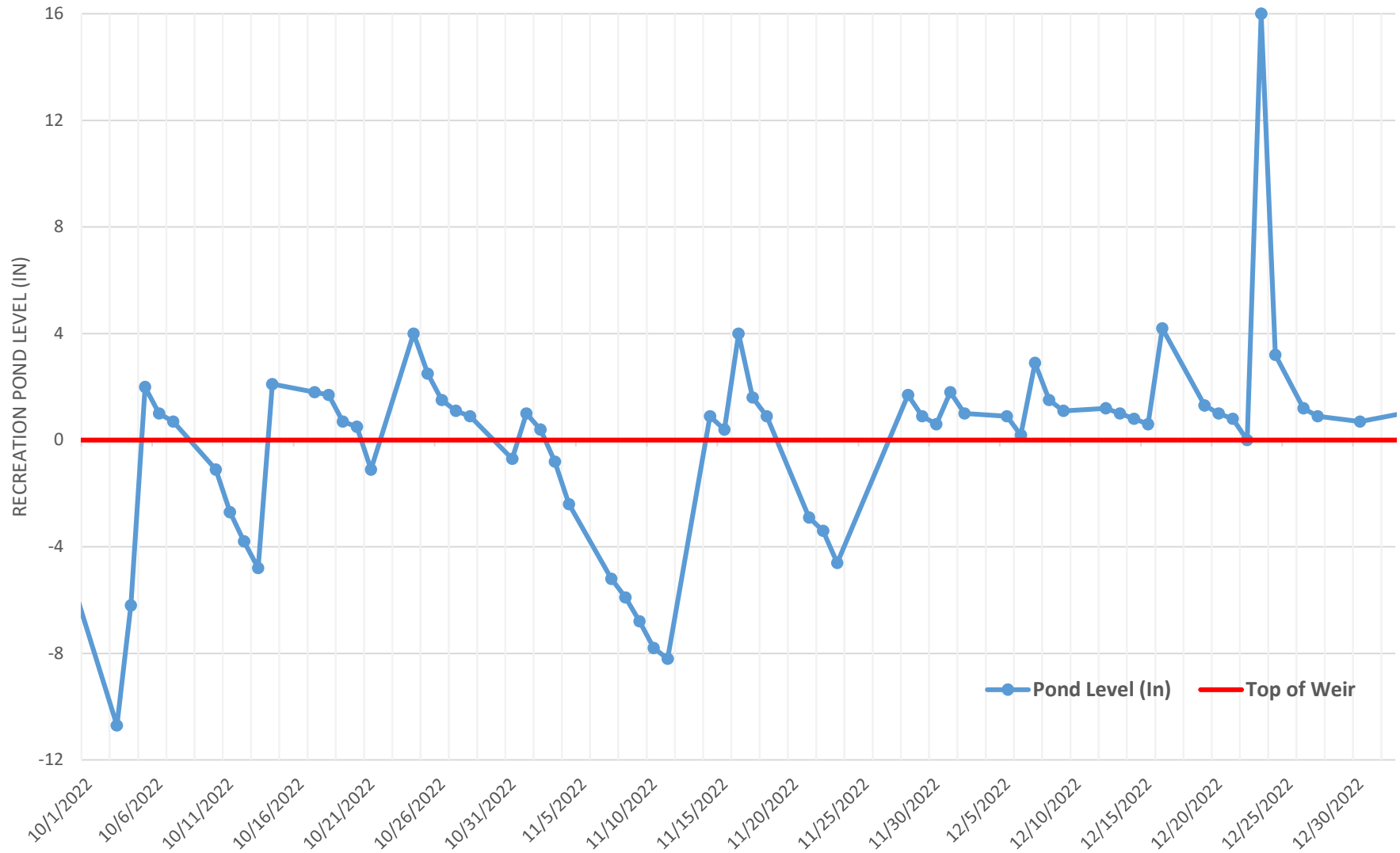


FIGURE 3 - INFLUENT AND EFFLUENT PFOS AND PFOA CHARTS

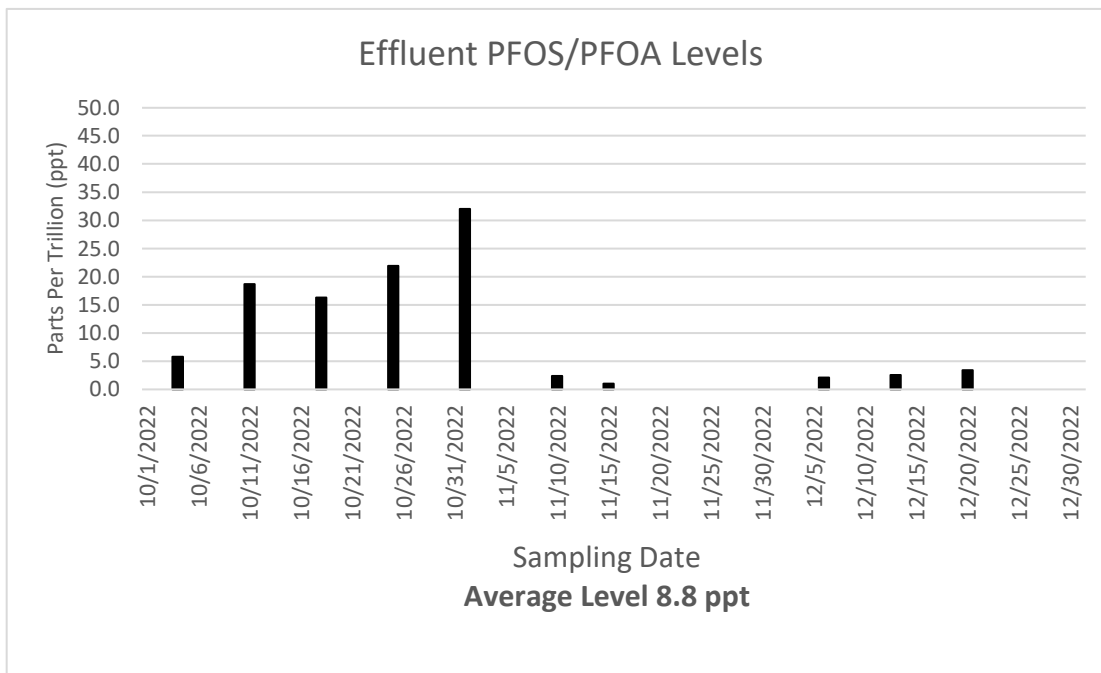
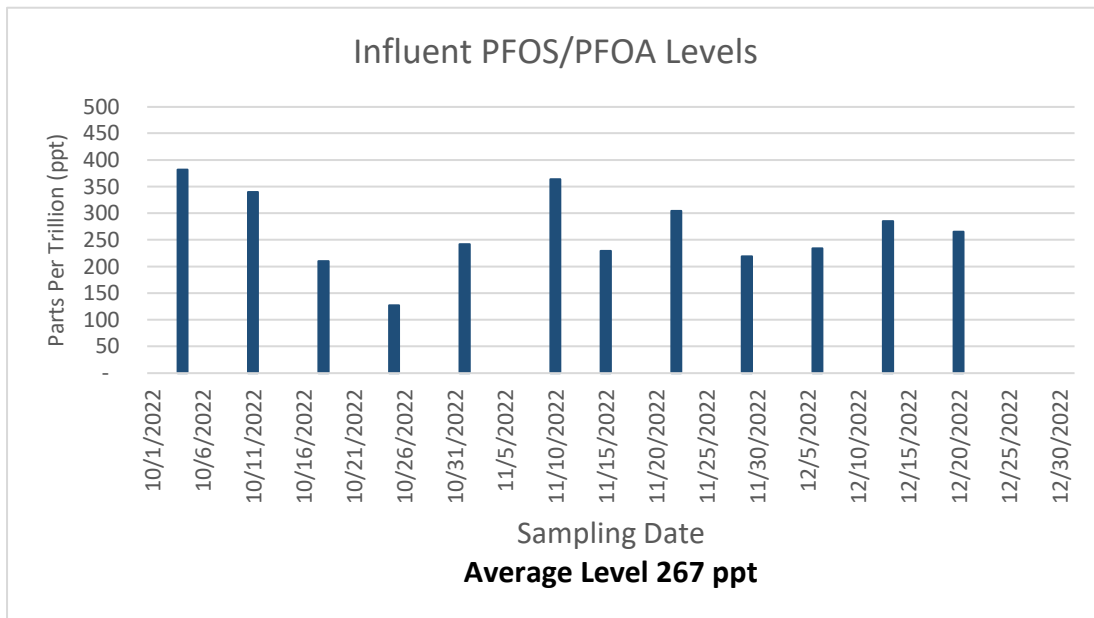
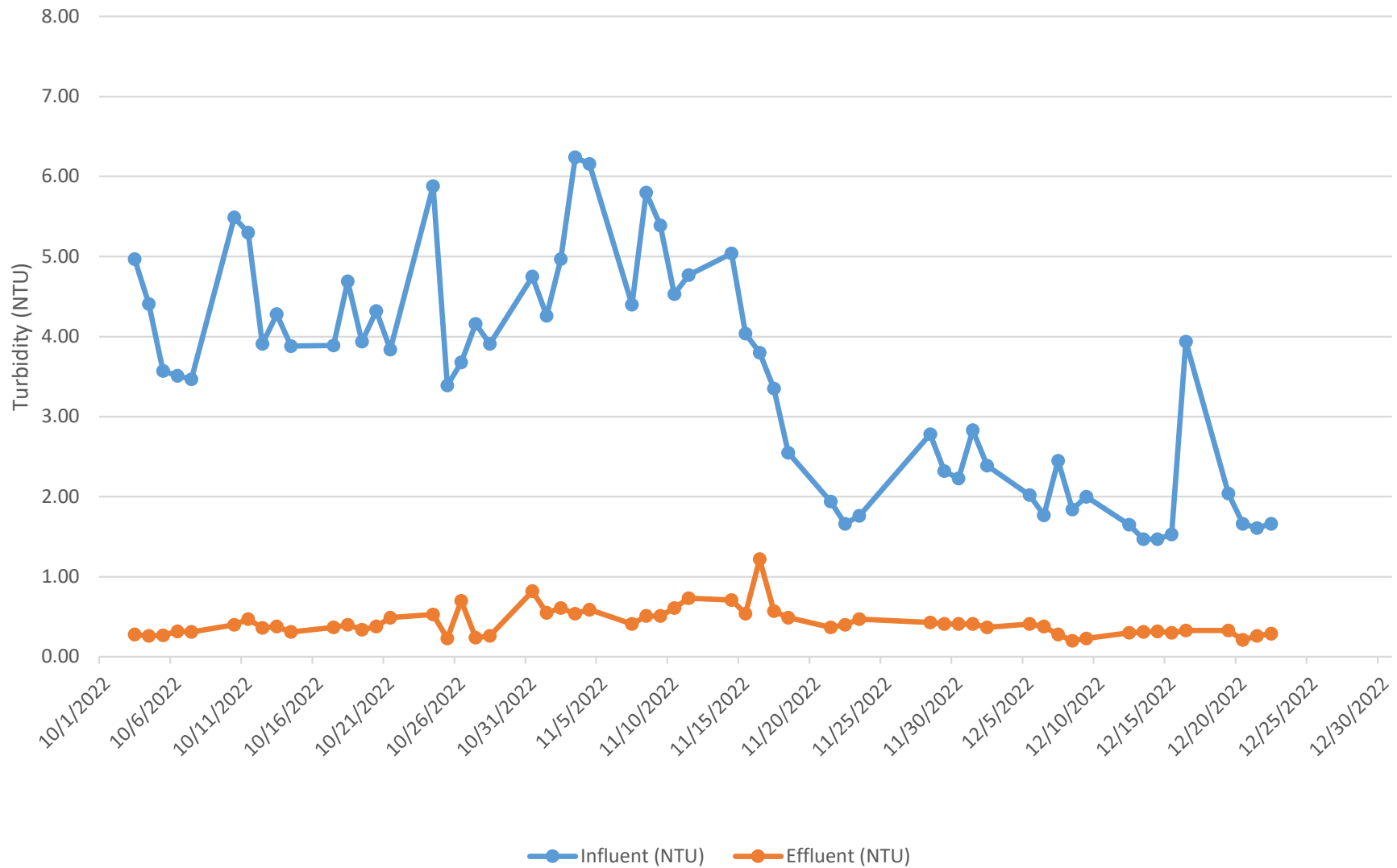


FIGURE - 4 - INFLUENT AND EFFLUENT TURBIDITY CHART

October to December 2022
Influent and Effluent Turbidity



ATTACHMENT 1

Material Disposal Documents

November 23, 2022

Re: Stewart ANG November 2022 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 November 1, 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: February 17, 2023

CCC CAN Number: 6973N

Waste Classification: RCRA non-hazardous

Treatment Method: Thermal Reactivation

Calgon Carbon hereby certifies on the above date 22,500 pounds of spent 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

84087373

CALGON CARBON CORPORATION
NEVILLE ISLAND PLANT

SPENT CARBON ACCEPTANCE SCREENING

TRAILER NUMBER: 35 / Frank 8891
TIME / DATE SAMPLE SUBMITTED: on floor in Thaw bldg.

A. (To be completed by Operations when sample is delivered)									
Customer	<u>Union Equipment Co</u>								
Location	<u>Indianapolis IN</u>								
C.A. Number	<u>6973 N</u>								
Date of Pick-up	<u>11-16-22</u>								
B. (To be completed by Operations when sample is delivered)									
Arrival Date NIP	<u>11-17-22</u>								
Signature of Transporter	<u>[Signature]</u>								
C. (To be completed by Operations when sample is delivered)									
Manifest Acceptable, Copy Attached	YES ☒ NO ☐								
HAZARDOUS	YES ☒ NO ☐								
Number of Samples	<u>1</u> (1/1 bulk, 1/5 bins, or 1/10 drums)								
BIN NUMBERS:									
BIN NUMBERS:									
Sample Appearance	<u>OK</u>								
Signature	<u>[Signature]</u> Date <u>1-19-23</u>								
☒ ACCEPTABLE (Submit RCRA Hazardous samples to Lab)	☐ REQUIRES FURTHER REVIEW								
D. (To be completed by Lab)									
Sample Ignitability	<table border="1"><tr><td>1</td><td>2</td><td>3</td><td>4</td></tr><tr><td><u>NF</u></td><td></td><td></td><td></td></tr></table> Test Method RTM-10 (RCRA Hazardous Only)	1	2	3	4	<u>NF</u>			
1	2	3	4						
<u>NF</u>									
Signature	<u>[Signature]</u> Date <u>1-19-23</u>								
☒ PASS	☐ FAIL								
E. (To be completed by Lab)									
Sample pH	<table border="1"><tr><td>1</td><td>2</td><td>3</td><td>4</td></tr><tr><td><u>7.40</u></td><td></td><td></td><td></td></tr></table> Test Method RTM-1 (RCRA Hazardous Only)	1	2	3	4	<u>7.40</u>			
1	2	3	4						
<u>7.40</u>									
Signature	<u>[Signature]</u> Date <u>1-19-23</u>								
☒ PASS (2.0 < pH < 12.5)	☐ FAIL (<2.0 or >12.5)								

SPENT CARBON ACCEPTANCE SCREENING (CONTINUED)

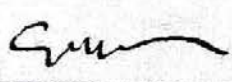
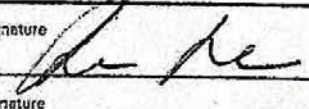
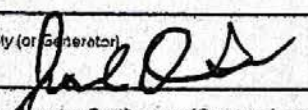
F. (To be completed by Lab)					
Sample Dry A.D.	1	2	3	4	Test Method TM-7 (RCRA Hazardous Only)
	.813				
Signature <u>JIC</u>	Date <u>1-19-23</u>				
PASS (less than 0.9 g/cc) FAIL (greater than 0.9 g/cc)					
G. (To be completed by Lab)					
Lab Comments					
Signature		Date			
H. (To be completed by Operations)					
Final Acceptance - Action		ACCEPTED REJECTED			
Signature <u>[Signature]</u>		Date <u>1-25-23</u>			
I. (To be completed by Shipping Clerk)					
Weight Discrepancies					
Reported Weight		Actual Weight <u>22500</u>			
Weight Discrepancy less than 2%		☒			
Weight Discrepancy between 2% and 10%		☐			
Weight Discrepancy greater than 10%		☐			
Signature <u>[Signature]</u>		Date <u>1-25-23</u>			

Note: Specifications per Waste Analysis Plan, Vol 1
RCRA Part B Permit

Revision date : 11/28/2006

Non-Hazardous Waste Manifest

GENERATOR SECTION

Non-Hazardous Waste Manifest		Generator ID Number		Waste Profile Number 6973N		Waste Tracking (Manifest) Number 19-03H-2	
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		Total Quantity	Unit Wt / Vol	Disposal Method		
	No.	Type					
1 non RCRA Spent Activated Carbon; Non DOT Regulated	17	1 CYD BAG	22,500	LB	Reactivation		
2							
3							
4							
Special Handling Instructions and Additional Information of file 6973N 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 Eric D Patterson			Signature 		Month November	Day 15	Year 2022
TRANSPORTER SECTION							
Transporter's Acknowledgement of Receipt of Materials							
Transporter 1 Printed / Typed Name Angel PH# 973-417-1074 w/ United Express Lines			Signature 		Month November	Day 15	Year 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 1	Day 25	Year 23
Signed 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

This certificate is to verify the wastes specified on Manifest # 19-03H-1
have been properly disposed of in accordance with all local, state and federal regulation.

"Disposed of" means either: 1) Burial or 2) Processed as specified in 40CFR et seq.

FACILITY NAME:
(Please check one)

☐ Michigan Disposal Waste Treatment Plant
(EPA I.D. # MID000724831)

☒ Wayne Disposal, Inc.
(EPA I.D. # MID048090633)

ADDRESS:

49350 N. I-94 Service Drive
Bellville, Michigan 48111

PHONE NUMBER:

1-800-592-5489

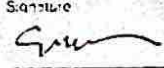
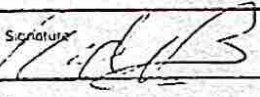
FAX NUMBER:

1-800-593-5329

Authorized Signature: _____



Non-Hazardous Waste Manifest

GENERATOR SECTION					
No. Hazardous Waste Manifest	Generator ID Number NYD 981 183 338	Waste Profile Number F220121WDI-OTS	Waste Tracking (Manifest) Number 19-03H-1		
Generator Billing Name and Mailing Onion Equipment Company 5705 W 73rd Street - Indianapolis, IN 46278 Generator Billing Phone (317) 694-7576		Generator's Site Address Stewart ANG Base 1 Maqure Way, Newburgh, NY 12550 Generator's Phone			
Transporter 1 Company Name Landstar Ranger			US EPA ID Number		
Transporter 2 Company Name			US EPA ID Number		
Designated Facility Name and Site Address WAYNE DISPOSAL, INC. SITE #2 LANDFILL 49350 N I-94 SERVICE DRIVE- BELLEVILLE, MI 48111 Facility's Phone 412-771-4050, X4116			US EPA ID Number MID 048 090 633		
Waste Shipping Name and Description	Containers		Total Quantity	Unit Wt / Vol	Disposal Method
	No	Type			
1 F220121WDI / Spent PFAS Filtration Media	14	1 CYD BAG	16,000	LB	Landfill
2					
3					
4					
Special Handling Instructions and Additional Information (7) Bags Resin, (7) Bags Filter Bags. Note item 1 weight is dry weight basis Appointment Info Wed. 11/23 at 8am. Cont. # 1150405 Driver Phone # 260-350-3804			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 Eric Patterson (agent for SANG)		Signature 	Month November	Day 21	Year 2022
TRANSPORTER SECTION					
Transporter's Acknowledgement of Receipt of Materials					
Transporter 1 Printed / Typed Name Andrew		Signature 	Month November	Day 21	Year 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				156 206	
Signature of Alternate Facility (or Generator)			Month 11	Day 23	Year 2022
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