STEWART AIR NATIONAL GUARD BASE PFOS/PFOA – INTERIM MITIGATION PROJECT

INTERIM STORM WATER TREATMENT SYSTEM OPERATIONS, MAINTENANANCE & MONITORING REPORT

QUARTERLY OM&M REPORT NO. 5 JULY TO SEPTEMBER 2021

Immediate Response Action, Rapid Response Program Contract No. W9128F-14-D-0009 Delivery Order No.: W9128F19F0079

Prepared for:



US ARMY CORPS OF ENGINEERS OMAHA DISTRICT

1616 Capital Avenue Omaha NE 68102-4901

Prepared by:



BERS-WESTON SERVICES JVA, LLC

720 Corporate Circle, Suite D Golden, CO 80401-5626

November 2021



| т | ΛI | RΙ | _E | റ | E | \sim | ∩I | NI- | TE | NI | TC |
|---|---------------------|----|----|---|---|--------|----|-----|----|----|----|
| | $\boldsymbol{\neg}$ | וט | | v | | v | U | 7 | | ľ | 10 |

| SECT | TION | | PAGE |
|-----------|-------|--|------|
| 1. | INTI | RODUCTION | 1 |
| 2. | | ERAL COMPLIANCE SUMMARY | |
| 3. | | TS CONFIGURATION DURING PERFORMANCE PERIOD | |
| 4. | | ERAL FACILITY OPERATIONS SUMMARY | |
| 5. | | ILITY PERFORMANCE MONITORING | |
| 5. | | INFLUENT AND EFFLUENT PFOS AND PFOA MONITORING | |
| | 5.1 | | |
| | 5.2 | INTRA-PROCESS PFOS AND PFOA MONITORING | |
| | 5.3 | OTHER WATER QUALITY MONITORING | |
| | 5.4 | TURBIDITY MONITORING | |
| | 5.5 | PERACETIC ACID ADDITION | |
| 6. | | EDULED PREVENTIVE MAINTENANCE | |
| 7. | MAT | TERIAL DISPOSAL | 5 |
| 8. | PRO | JECTED ACTIVIES FOR NEXT PERFORMANCE PERIOD | 5 |
| | | LIST OF FIGURES | |
| FIG | URE 1 | ISWTS FLOW DIAGRAM | |
| FIG | URE 2 | RECREATION POND LEVEL CHART | |
| FIG | URE 3 | INFLUENT AND EFFLUENT PFOS AND PFOA CHART | |
| FIG | URE 4 | INFLUENT AND EFFLUENT TURBIDITY CHART | |
| | | LIST OF TABLES | |
| TAE | BLE 1 | PFOS & PFOA WATER QUALITY MONITORING RESULTS | |
| TAE | BLE 2 | OTHER WATER QUALITY MONITORING RESULTS | |
| TAF | BLE 3 | PREVENTIVE MAINTENANCE TABLE | |



LIST OF ATTACHMENT

ATTACHMENT 1 WASTE MANIFESTS & DISPOSAL CERTIFICATES



ACRONYMS AND ABBREVIATIONS

AFFF aqueous film forming foam

ANG Air National Guard

BERS-Weston BERS-Weston Services JVA, LLC

GAC granular activated carbon

GPM gallons per minute

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. INTRODUCTION

BERS-Weston Services JVA, LLC (BERS-Weston), 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 fifth quarterly report that summarizes Operations, Maintenance, and Monitoring (OM&M) activities conducted by BERS-Weston at SANGB. This report summarizes ISWTS operations between 01 July and 30 September 2021 at SANGB.

2. GENERAL COMPLIANCE SUMMARY

The ISWTS operations began treatment of water on 13 July 2020, following installation and commissioning of pretreatment system improvements in June and early July 2020. This report summarizes OM&M between 01 July and 30 September 2021 or months 13, 14, and 15 post start-up. During the performance period the system influent, intra-process monitoring (3 locations) and effluent was monitored once or twice per week 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 17 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. 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. GENERAL FACILITY OPERATIONS SUMMARY

During the performance period, a total of 36,149,785 gallons of stormwater was treated and discharged over the outfall weir by the ISWTS. No stormwater was treated and recirculated to the Recreation Pond during the performance period. The chart 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 sum of 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.

Final –
Quarterly OM&M Report No.5 – July to September 2021

| Month | Volume Treated (Gallons) | Operational Time ¹ (Hours) | Run Time ² (Percent) | Average Treatment Flow ³ (GPM) |
|-------------|--------------------------------|--|------------------------------------|---|
| July 2021 | 11,159,510 | 674 | 96% | 276 |
| August 2021 | 12,896,475 | 729 | 97% | 295 |
| Sept 2021 | 12,093,800 | 702 | 93% | 287 |
| Total | 36,149,785 | 2,105 | | |

¹Operation Time – Hours influent pump in operation during month

There were 92 days of operation between 01 July and 30 September 2021. During this period of performance, the Recreation Pond was drawn down for 37 of the 92 days or 40% of the time. The Recreation Pond level during the performance period is shown on **Figure 2**.

5. FACILITY PERFORMANCE MONITORING

5.1 INFLUENT AND EFFLUENT PFOS AND PFOA MONITORING

As previously noted, PFOS and PFOA samples were collected 17 times on the influent and effluent during the performance period. **Figure 3** shows the combined influent and effluent PFOS and PFOA concentrations based on the validated results. As shown in **Figure 3**, the combined PFOS and PFOA influent and effluent concentrations during the performance period were 306 ppt and 0.23 ppt, respectively.

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 media was replaced between 12 and 19 July. During that period, sampling was only performed on the overall system influent and effluent. Based on intra-process sample results the maximum detection of PFOS/PFOA in the primary GAC was 28.3 ppt prior to the media change. The maximum detection of PFOS and PFOA in the secondary GAC was 0.6 ppt and the Ion Exchange resin was 1.5 ppt prior to the media exchange and still demonstrating adequate

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

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



removal. The media exchange was 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. The reduced frequency (once per week instead of twice per week) was performed based on the historical performance data now available. Increased frequency would be performed if reduced treatment system performance was observed. However, media performance for PFAS removal was sufficient for the remainder of the quarter.

5.3 OTHER WATER QUALITY MONITORING

During the performance period additional monitoring was performed monthly 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 average influent TOC was 3.3 mg/L and the GAC effluent (influent to the resin) was 1.05 mg/L indicating that the influent TOC level to the Ion Exchange resin was acceptable. Glycol was not detected in any of the 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 the influent water quality and intra-process samples to confirm the effectiveness of the treatment system in removing solids. During the performance period, influent and effluent turbidity averaged 9.36 nephelometric turbidity units (NTU) and 0.93 NTU, respectively. A graph of the influent and effluent turbidity during the performance period is included in **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 15.5 gallons of peracetic Acid was introduced and the



average dose was 0.43 gallons of peracetic acid per million gallons of water treated or 1.42 pounds per day.

6. SCHEDULED PREVENTIVE MAINTENANCE

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 686 and 644 times, respectively and a total of 24 cleaning events were completed. No sand media was replaced during the quarter. The primary and secondary bag filters were changed 28 and 23 times, respectively, during the performance period. To maintain acceptable PFAS treatment media pressure, the primary and secondary GAC was backwashed 22 and 7 times, respectively during the quarter. The resin was skimmed one time and all carbon and resin were replaced once during the performance period. 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. MATERIAL DISPOSAL

Waste sand filter media generated during the June 2021 sand filter media replacement was stored on-site and disposed of along with the spent media from the July 2021 PFAS media (GAC and Ion Exchange resin) change. The following waste streams were generated: Copies of all signed manifests and all disposal certifications are included in **Attachment 1.**

- Sand filter waste
- Spent Bag Filters
- GAC and Ion Exchange Media.



Copies of all signed manifests and all disposal certifications are included in **Attachment 1.** All waste was disposed of by incineration at Covanta Environmental Solutions of Indianapolis, Indiana. The table below summarizes the quantity of all wastes disposed of during the performance period.

| Date - Non RCRA Waste Left Site | Non-RCRA Spent Treatment Media Description | No of items | Manifest Number | Date(s) Delivered to Covanta Facility (Indianapolis, Indiana) | Total Media Weight (lbs) - Covanta Scale |
|---|---|-------------|--------------------|---|---|
| 7/7/2021 | 4 super sacks of sand and 4 super sacks of bag filters | 8 | 21-11A | | |
| 7/10/2021 | 1 super sack of sand, 2 super sacks of resin and 3 super sacks of bag filters | 6 | 21-11B | 22 and 23 July PO-00340-10 | 71 400 |
| 7/14/2021 | 4 super sacks of carbon. | 4 | 21-11C | through PO- 00340-14 - 5 loads | 71,400 |
| 7/20/2021 | 12 super sacks of carbon | 12 | 21-11D | | |
| 7/20/2021 | 9 super sacks of resin | 9 | 21-11E | | |

8. PROJECTED ACTIVITIES FOR NEXT PERFORMANCE PERIOD

During the next performance period one additional media change is anticipated to meet performance objectives. No capital improvements are planned at this time.

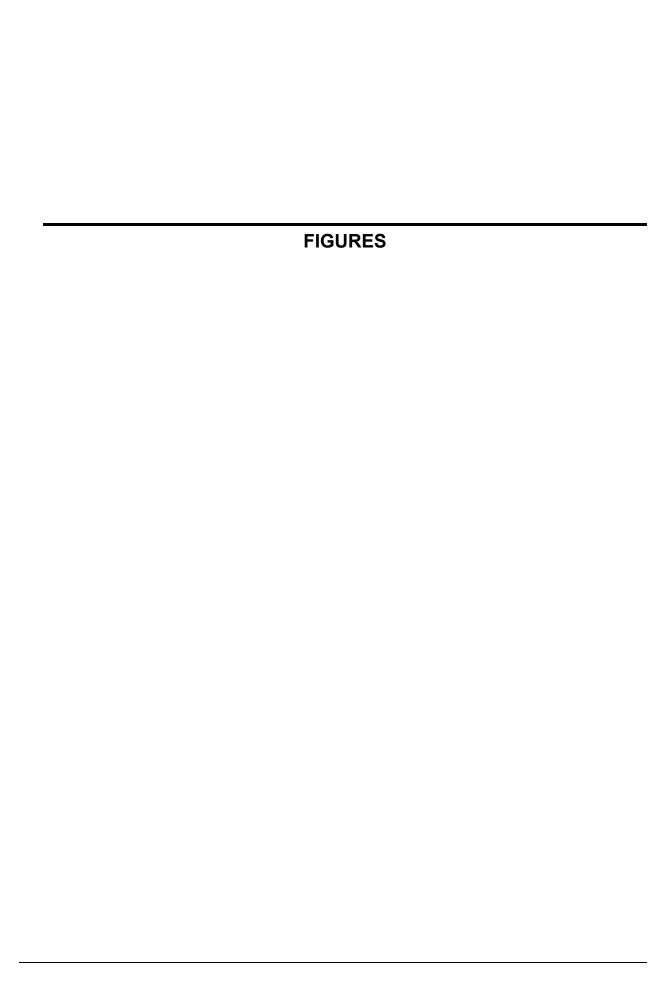
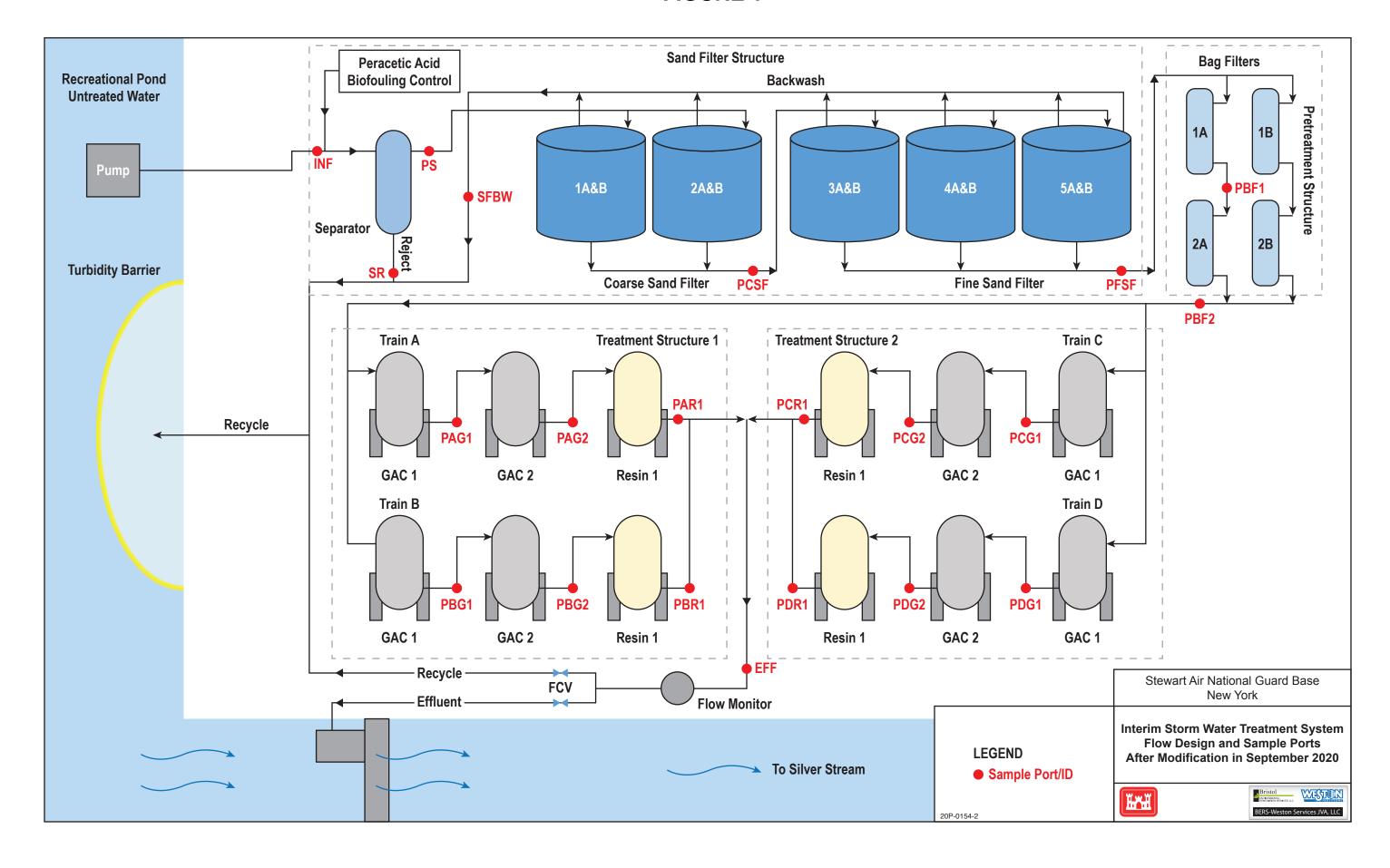


FIGURE 1



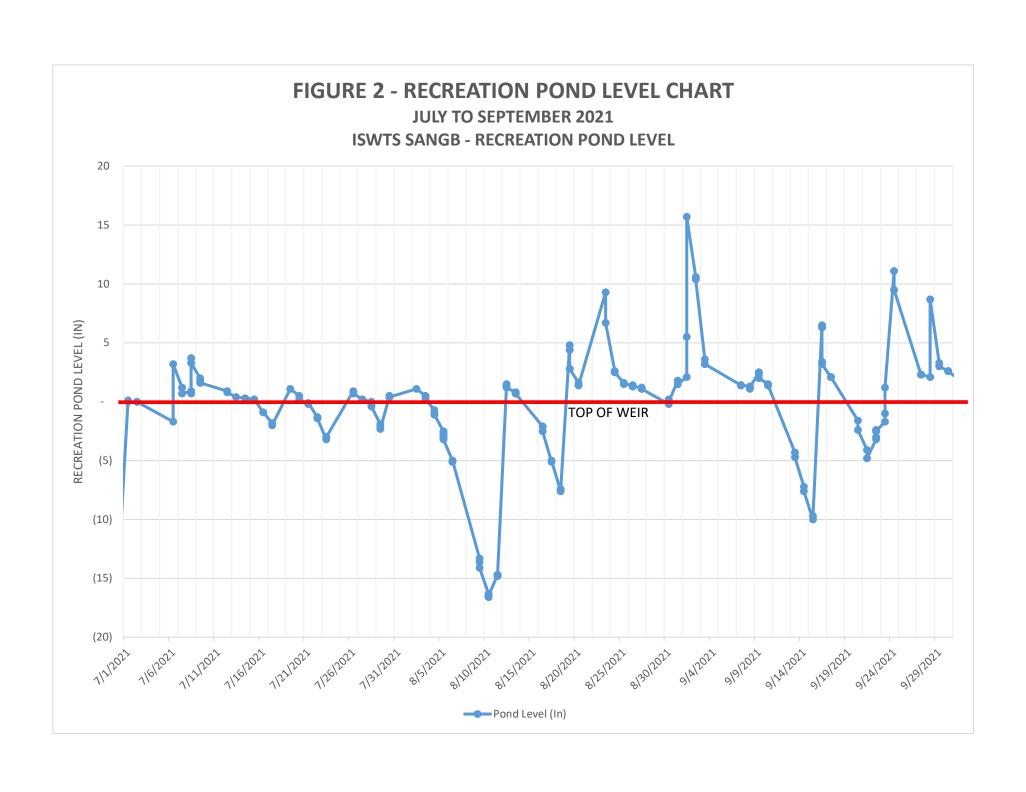
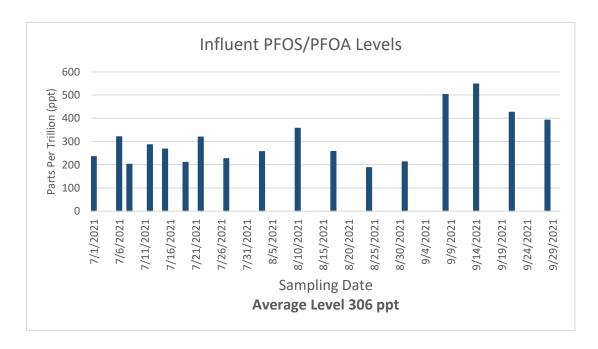
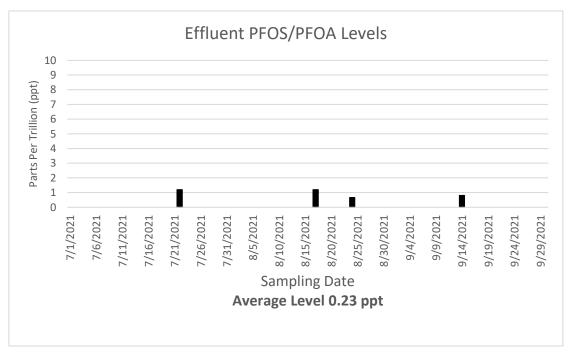


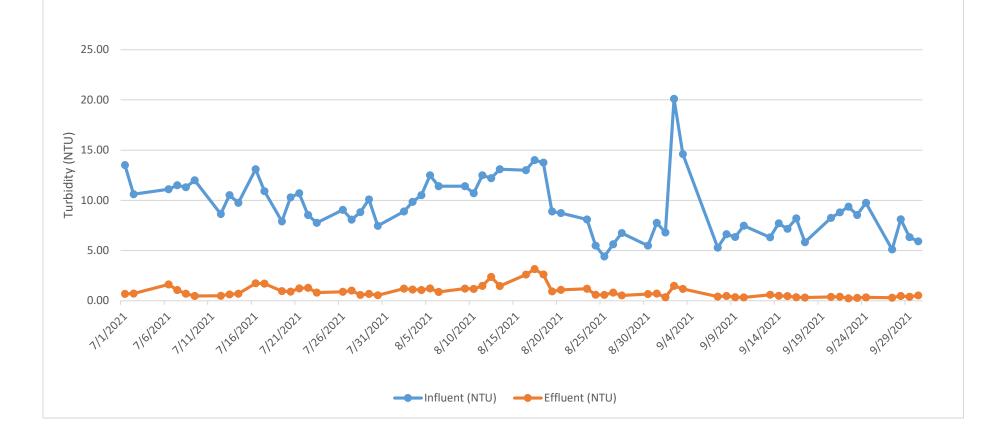
FIGURE 3 - INFLUENT AND EFFLUENT PFOS PFOA CHARTS







July to September 2021
Influent and Effluent Turbidity



| TABLES |
|--------|
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |
| |

RESULTS OF ANALYSES OF WATER VALIDATED DATA

| BV Labs ID | | PZL638 | PZL643 | PZL644 | PZL642 | PZL641 | PZL640 | PZL639 | | | |
|-------------------------------------|-------|------------------|-------------------|--------------------|--------------------|--------------------|--------------------|-------------------|------|-----|-----|
| Sampling Date | | 2021/07/01 08:00 | 2021/07/01 08:40 | 2021/07/01 08:40 | 2021/07/01 08:30 | 2021/07/01 08:22 | 2021/07/01 08:15 | 2021/07/01 08:07 | | | |
| COC Number | | n/a | n/a | n/a | n/a | n/a | n/a | n/a | | | |
| | UNITS | SANG-FB-07012021 | SANG-INF-07012021 | SANG-INF-07012021D | SANG-PCG1-07012021 | SANG-PCG2-07012021 | SANG-PCR1-07012021 | SANG-EFF-07012021 | DL | LOD | LOQ |
| Perfluorinated Compounds | | | | | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ng/L | 1.4 U | 24 | 25 | 19 | 5.8 | 21 | 21 | 0.70 | 1.5 | 2.1 |
| Perfluoropentanoic acid (PFPeA) | ng/L | 1.2 U | 68 | 71 | 16 | 1.4 J | 28 J- | 16 | 0.55 | 1.3 | 2.1 |
| Perfluorohexanoic acid (PFHxA) | ng/L | 1.4 U | 54 | 57 | 4.5 | 1.4 U | 3.6 J- | 1.0 U | 0.74 | 1.5 | 2.1 |
| Perfluoroheptanoic acid (PFHpA) | ng/L | 1.2 U | 23 | 25 | 1.1 J | 1.2 U | 0.88 J- | 0.65 J | 0.54 | 1.3 | 2.1 |
| Perfluorooctanoic acid (PFOA) | ng/L | 1.2 U | 25 | 24 | 0.88 J | 1.2 U | 0.72 J | 1.2 U | 0.51 | 1.3 | 2.1 |
| Perfluorononanoic acid (PFNA) | ng/L | 1.6 U | 6.8 | 6.9 | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 0.84 | 1.7 | 2.1 |
| Perfluorodecanoic acid (PFDA) | ng/L | 1.4 U | 5.4 | 5.4 | 1.4 U | 1.4 U | 0.65 J | 1.4 U | 0.67 | 1.5 | 2.1 |
| Perfluoroundecanoic acid (PFUnA) | ng/L | 1.6 U | 1.2 J | 1.4 J | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 0.81 | 1.7 | 2.1 |
| Perfluorododecanoic acid (PFDoA) | ng/L | 0.72 J | 1.4 U | 1.4 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 0.62 | 1.3 | 2.1 |
| Perfluorotridecanoic acid (PFTRDA) | ng/L | 0.62 J | 1.3 U | 1.3 U | 1.2 UJ | 1.2 U | 1.2 U | 1.2 UJ | 0.50 | 1.3 | 2.1 |
| Perfluorotetradecanoic acid(PFTEDA) | ng/L | 0.61 J | 1.3 U | 1.3 U | 1.2 UJ | 1.2 U | 1.2 U | 1.2 UJ | 0.39 | 1.3 | 2.1 |
| Perfluorobutanesulfonic acid (PFBS) | ng/L | 1.2 U | 9.9 | 10 | 0.99 J | 1.2 U | 1.2 U | 1.2 U | 0.49 | 1.3 | 2.1 |
| Perfluoropentanesulfonic acid PFPes | ng/L | 1.6 U | 11 | 11 | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 0.77 | 1.7 | 2.1 |
| Perfluorohexanesulfonic acid(PFHxS) | ng/L | 1.2 U | 65 | 67 | 0.92 J | 1.2 U | 1.2 U | 1.2 U | 0.56 | 1.3 | 2.1 |
| Perfluoroheptanesulfonic acid PFHpS | ng/L | 1.2 U | 3.6 | 3.7 | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 0.60 | 1.3 | 2.1 |
| Perfluorooctanesulfonic acid (PFOS) | ng/L | 1.2 U | 210 (1) | 210 (1) | 1.5 J | 1.2 U | 0.88 J- | 1.2 U | 4.3 | 12 | 21 |
| Perfluorononanesulfonic acid (PFNS) | ng/L | 1.4 U | 1.5 U | 1.5 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 0.67 | 1.5 | 2.1 |
| Perfluorodecanesulfonic acid (PFDS) | ng/L | 1.2 U | 1.3 U | 1.3 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 0.56 | 1.3 | 2.1 |
| Perfluorooctane Sulfonamide (PFOSA) | ng/L | 2.0 U | 2.1 UJ | 2.1 UJ | 2.0 UJ | 2.0 UJ | 2.0 UJ | 1.2 UJ | 0.85 | 2.1 | 4.2 |
| MeFOSAA | ng/L | 3.0 U | 3.2 U | 3.2 U | 3.0 U | 3.0 U | 3.0 U | 3.0 U | 1.3 | 3.2 | 4.2 |
| EtFOSAA | ng/L | 3.0 U | 3.2 U | 3.2 U | 3.0 U | 3.0 U | 3.0 U | 3.0 U | 1.5 | 3.2 | 4.2 |
| 4:2 Fluorotelomer sulfonic acid | ng/L | 1.6 U | 1.4 J | 1.4 J | 1.6 U | 1.6 U | 0.78 J | 0.72 J | 0.72 | 1.7 | 4.2 |
| 6:2 Fluorotelomer sulfonic acid | ng/L | 1.6 U | 57 | 56 | 0.66 J | 1.6 U | 0.94 J- | 1.6 U | 0.62 | 1.7 | 4.2 |
| 8:2 Fluorotelomer sulfonic acid | ng/L | 1.6 U | 11 | 11 | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 0.79 | 1.7 | 4.2 |
| Hexafluoropropyleneoxide dimer acid | ng/L | 2.0 U | 2.1 U | 2.1 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 0.89 | 2.1 | 4.2 |
| 4,8-Dioxa-3H-perfluorononanoic acid | ng/L | 1.2 U | 1.3 U | 1.3 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 0.33 | 1.3 | 4.2 |
| 9CI-PF3ONS (F-53B Major) | ng/L | 2.0 U | 2.1 U | 2.1 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 0.59 | 2.1 | 4.2 |
| 11CI-PF3OUdS (F-53B Minor) | ng/L | 2.0 U | 2.1 U | 2.1 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 0.55 | 2.1 | 4.2 |

Notes:

Sample SANG-FB-07012021 is a field blank.

Sample SANG-INF-07012021D is a field duplicate of SANG-INF-07012021.

Compounds highlighted in gray are the UCMR3 PFAS analytes.

Results bolded in red text are qualified based on validation.

A variance to the extracted internal standard (EIS) recovery criteria has been granted allowing for results to be accepted with recoveries outside of tolerance limits for this parameter.

DL = Detection Limit

J- = Estimated result. Associated value is considered to have a low bias.

J = Estimated result. Associated value may not be accurate or precise.

LOD = Limit of Detection

LOQ = Limit of Quantitation

ng/L = nanograms per liter, or parts per trillion.

U = Undetected. Compound was analyzed for but not detected.

UJ = Not detected at an estimated reporting limit.

VALIDATED DATA

| BV Labs ID | | QAZ523 | QAZ528 | QAZ529 | QAZ527 | QAZ526 | QAZ525 | QAZ524 | | | |
|-------------------------------------|-------|------------------|-------------------|--------------------|--------------------|--------------------|--------------------|-------------------|------|-----|-----|
| Sampling Date | | 2021/07/08 08:10 | 2021/07/08 08:40 | 2021/07/08 08:40 | 2021/07/08 08:35 | 2021/07/08 08:30 | 2021/07/08 08:22 | 2021/07/08 08:15 | | | |
| COC Number | | na | na | na | na | na | na | na | | | |
| | UNITS | SANG-FB-07082021 | SANG-INF-07082021 | SANG-INF-07082021D | SANG-PAG1-07082021 | SANG-PAG2-07082021 | SANG-PAR1-07082021 | SANG-EFF-07082021 | DL | LOD | LOQ |
| Perfluorinated Compounds | | | | | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ng/L | 1.4 U | 21 | 20 | 30 | 23 | 31 | 30 | 0.67 | 1.4 | 2.0 |
| Perfluoropentanoic acid (PFPeA) | ng/L | 1.2 U | 57 | 54 | 40 | 10 | 42 | 25 | 0.52 | 1.2 | 2.0 |
| Perfluorohexanoic acid (PFHxA) | ng/L | 1.4 U | 45 | 43 | 17 | 1.8 J | 4.9 | 0.84 J | 0.70 | 1.4 | 2.0 |
| Perfluoroheptanoic acid (PFHpA) | ng/L | 1.2 U | 23 | 21 | 5.1 | 1.2 U | 0.68 J | 1.2 U | 0.51 | 1.2 | 2.0 |
| Perfluorooctanoic acid (PFOA) | ng/L | 1.2 U | 22 | 20 | 4.3 | 1.2 U | 1.2 U | 1.2 U | 0.49 | 1.2 | 2.0 |
| Perfluorononanoic acid (PFNA) | ng/L | 1.6 U | 5.9 | 5.3 | 1.1 J | 1.6 U | 1.6 U | 1.6 U | 0.80 | 1.6 | 2.0 |
| Perfluorodecanoic acid (PFDA) | ng/L | 1.4 U | 5.2 | 4.7 | 1.0 J | 1.4 U | 1.4 U | 1.4 U | 0.64 | 1.4 | 2.0 |
| Perfluoroundecanoic acid (PFUnA) | ng/L | 1.6 U | 1.8 U | 1.8 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 | 1.3 U | 1.4 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 | 1.3 U | 1.4 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 | 1.3 U | 1.4 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 | 7.8 | 7.1 | 2.6 | 1.2 U | 1.2 U | 1.2 U | 0.47 | 1.2 | 2.0 |
| Perfluoropentanesulfonic acid PFPes | ng/L | 1.6 U | 8.1 | 7.5 | 1.0 J | 1.6 U | 1.6 U | 1.6 U | 0.73 | 1.6 | 2.0 |
| Perfluorohexanesulfonic acid(PFHxS) | ng/L | 1.2 U | 51 | 48 | 8.0 | 0.78 J | 1.2 U | 1.2 U | 0.53 | 1.2 | 2.0 |
| Perfluoroheptanesulfonic acid PFHpS | ng/L | 1.2 U | 2.3 | 2.0 J | 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) | 240 (1) | 24 | 0.60 J | 0.48 J | 1.2 U | 0.43 | 1.2 | 2.0 |
| Perfluorononanesulfonic acid (PFNS) | ng/L | 1.4 U | 1.5 U | 1.6 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 | 1.3 U | 1.4 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 UJ | 2.0 UJ | 2.0 UJ | 2.0 UJ | 2.0 UJ | 2.0 UJ | 2.0 UJ | 0.81 | 2.0 | 4.0 |
| MeFOSAA | ng/L | 3.0 U | 3.3 U | 3.5 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 | 3.3 U | 3.5 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 | 1.8 U | 1.8 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 | 60 | 56 | 8.1 | 1.6 U | 1.7 J | 1.6 U | 0.59 | 1.6 | 4.0 |
| 8:2 Fluorotelomer sulfonic acid | ng/L | 1.6 U | 13 | 12 | 3.9 J | 1.6 U | 1.6 U | 1.6 U | 0.75 | 1.6 | 4.0 |
| Hexafluoropropyleneoxide dimer acid | ng/L | 2.0 U | 2.2 U | 2.3 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 | 1.3 U | 1.4 U | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 0.31 | 1.2 | 4.0 |
| 9CI-PF3ONS (F-53B Major) | ng/L | 2.0 U | 2.2 U | 2.3 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 0.56 | 2.0 | 4.0 |
| 11CI-PF3OUdS (F-53B Minor) | ng/L | 2.0 U | 2.2 U | 2.3 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 0.52 | 2.0 | 4.0 |
| Notes: | | | | | | | | | | _ | |

Sample SANG-FB-07082021 is a field blank.

Sample SANG-INF-07082021D is a field duplicate of SANG-INF-07082021.

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

Compounds highlighted in gray are the UCMR3 PFAS analytes.
Results bolded in red text are qualified based on validation.

DL = Detection Limit

J = Estimated result. Associated value may not be accurate or precise.

LOD = Limit of Detection

LOQ = Limit of Quantitation

ng/L = nanograms per liter or parts per trillion.

U = Undetected. Compoud was analyzed for, but not detected.

VALIDATED DATA

| BV Labs ID | | QBS978 | QBS983 | QBS984 | QBS982 | QBS981 | QBS980 | QBS979 | | | |
|-------------------------------------|-------|------------------|-------------------|--------------------|--------------------|--------------------|--------------------|-------------------|------|-----|-----|
| Sampling Date | | 2021/07/12 07:50 | 2021/07/12 08:30 | 2021/07/12 08:30 | 2021/07/12 08:22 | 2021/07/12 08:15 | 2021/07/12 08:07 | 2021/07/12 08:00 | | | |
| | UNITS | SANG-FB-07122021 | SANG-INF-07122021 | SANG-INF-07122021D | SANG-PBG1-07122021 | SANG-PBG2-07122021 | SANG-PBR1-07122021 | SANG-EFF-07122021 | DL | LOD | LOQ |
| Perfluorinated Compounds | | | | | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ng/L | 1.4 U | 25 | 26 | 28 | 15 | 36 | 34 | 0.67 | 1.4 | 2.0 |
| Perfluoropentanoic acid (PFPeA) | ng/L | 1.2 U | 70 | 74 | 22 | 3.2 | 62 | 31 | 0.52 | 1.2 | 2.0 |
| Perfluorohexanoic acid (PFHxA) | ng/L | 1.4 U | 55 | 58 | 5.3 | 0.85 J | 14 | 1.4 J | 0.70 | 1.4 | 2.0 |
| Perfluoroheptanoic acid (PFHpA) | ng/L | 1.2 U | 30 | 31 | 1.2 J | 1.2 U | 2.3 | 1.2 U | 0.51 | 1.2 | 2.0 |
| Perfluorooctanoic acid (PFOA) | ng/L | 1.2 U | 26 | 27 | 0.60 J | 1.2 U | 0.96 J | 1.2 U | 0.49 | 1.2 | 2.0 |
| Perfluorononanoic acid (PFNA) | ng/L | 1.6 U | 6.7 | 6.9 | 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 | 6.8 | 6.9 | 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 | 0.95 J | 1.0 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 | 1.4 J | 1.5 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 | 9.8 | 10 | 0.75 J | 1.2 U | 1.2 U | 1.2 U | 0.47 | 1.2 | 2.0 |
| Perfluoropentanesulfonic acid PFPes | ng/L | 1.6 U | 12 | 13 | 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 | 65 | 69 | 1.1 J | 0.59 J | 1.2 U | 1.2 U | 0.53 | 1.2 | 2.0 |
| Perfluoroheptanesulfonic acid PFHpS | ng/L | 1.2 U | 3.5 | 3.6 | 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 | 260 (1) | 260 (1) | 1.7 J | 0.63 J | 0.57 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 | 2.0 |
| 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 | 1.1 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 | 73 | 76 | 0.85 J | 1.6 U | 4.4 | 1.6 U | 0.59 | 1.6 | 4.0 |
| 8:2 Fluorotelomer sulfonic acid | ng/L | 1.6 U | 23 | 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 |
| 9CI-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 |
| 11CI-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:

Sample SANG-FB-07122021 is a field blank.

Sample SANG-INF-07122021D is a field duplicate of SANG-INF-07122021.

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

Compounds highlighted in gray are the UCMR3 PFAS analytes.

DL = Detection Limit

J = Estimated result. Associated value may not be accurate or precise.

LOD = Limit of Detection

LOQ = Limit of Quantitation

ng/L = Nanograms per Liter or parts per trillion.

QC Batch = Quality Control Batch

U = Undetected. Compound was analyzed for but not detected.

VALIDATED DATA

| | | | ******** | | | | |
|-------------------------------------|-------|------------------|-------------------|-------------------|------|-----|-----|
| BV Labs ID | | QCS435 | QCS437 | QCS436 | | | |
| Sampling Date | | 2021/07/15 08:00 | 2021/07/15 08:10 | 2021/07/15 08:05 | | | |
| COC Number | | n/a | n/a | n/a | | | |
| | UNITS | SANG-FB-07152021 | SANG-INF-07152021 | SANG-EFF-07152021 | DL | LOD | LOQ |
| Perfluorinated Compounds | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ng/L | 1.4 UJ | 28 J | 32 J | 0.74 | 1.5 | 2.2 |
| Perfluoropentanoic acid (PFPeA) | ng/L | 1.2 UJ | 77 J | 30 J | 0.57 | 1.3 | 2.2 |
| Perfluorohexanoic acid (PFHxA) | ng/L | 1.4 UJ | 62 J | 1.5 J | 0.77 | 1.5 | 2.2 |
| Perfluoroheptanoic acid (PFHpA) | ng/L | 1.2 UJ | 32 J | 1.3 UJ | 0.56 | 1.3 | 2.2 |
| Perfluorooctanoic acid (PFOA) | ng/L | 1.2 UJ | 27 J | 1.3 UJ | 0.54 | 1.3 | 2.2 |
| Perfluorononanoic acid (PFNA) | ng/L | 1.6 UJ | 6.9 J | 1.8 UJ | 0.88 | 1.8 | 2.2 |
| Perfluorodecanoic acid (PFDA) | ng/L | 1.4 UJ | 6.6 J | 1.5 UJ | 0.7 | 1.5 | 2.2 |
| Perfluoroundecanoic acid (PFUnA) | ng/L | 1.6 UJ | 0.85 J | 1.8 UJ | 0.85 | 1.8 | 2.2 |
| Perfluorododecanoic acid (PFDoA) | ng/L | 1.2 UJ | 0.77 J | 1.3 UJ | 0.65 | 1.3 | 2.2 |
| Perfluorotridecanoic acid (PFTRDA) | ng/L | 1.2 UJ | 1.3 UJ | 1.3 UJ | 0.53 | 1.3 | 2.2 |
| Perfluorotetradecanoic acid(PFTEDA) | ng/L | 1.2 UJ | 1.3 UJ | 1.3 UJ | 0.41 | 1.3 | 2.2 |
| Perfluorobutanesulfonic acid (PFBS) | ng/L | 1.2 UJ | 11 J | 1.3 UJ | 0.52 | 1.3 | 2.2 |
| Perfluoropentanesulfonic acid PFPes | ng/L | 1.6 UJ | 14 J | 1.8 UJ | 8.0 | 1.8 | 2.2 |
| Perfluorohexanesulfonic acid(PFHxS) | ng/L | 1.2 UJ | 75 J | 1.3 UJ | 0.58 | 1.3 | 2.2 |
| Perfluoroheptanesulfonic acid PFHpS | ng/L | 1.2 UJ | 4.1 J | 1.3 UJ | 0.63 | 1.3 | 2.2 |
| Perfluorooctanesulfonic acid (PFOS) | ng/L | 1.2 UJ | 240 J (1) | 1.3 UJ | 4.3 | 12 | 20 |
| Perfluorononanesulfonic acid (PFNS) | ng/L | 1.4 UJ | 1.5 UJ | 1.5 UJ | 0.7 | 1.5 | 2.2 |
| Perfluorodecanesulfonic acid (PFDS) | ng/L | 1.2 UJ | 1.3 UJ | 1.3 UJ | 0.58 | 1.3 | 2.2 |
| Perfluorooctane Sulfonamide (PFOSA) | ng/L | 2.0 UJ | 2.2 UJ | 2.2 UJ | 0.89 | 2.2 | 4.4 |
| MeFOSAA | ng/L | 3.0 UJ | 3.3 UJ | 3.3 UJ | 1.3 | 3.3 | 4.4 |
| EtFOSAA | ng/L | 3.0 UJ | 3.3 UJ | 3.3 UJ | 1.5 | 3.3 | 4.4 |
| 4:2 Fluorotelomer sulfonic acid | ng/L | 1.6 UJ | 1.4 J | 1.8 UJ | 0.76 | 1.8 | 4.4 |
| 6:2 Fluorotelomer sulfonic acid | ng/L | 1.6 UJ | 85 J | 1.8 UJ | 0.65 | 1.8 | 4.4 |
| 8:2 Fluorotelomer sulfonic acid | ng/L | 1.6 UJ | 18 J | 1.8 UJ | 0.83 | 1.8 | 4.4 |
| Hexafluoropropyleneoxide dimer acid | ng/L | 2.0 UJ | 2.2 UJ | 2.2 UJ | 0.94 | 2.2 | 4.4 |
| 4,8-Dioxa-3H-perfluorononanoic acid | ng/L | 1.2 UJ | 1.3 UJ | 1.3 UJ | 0.34 | 1.3 | 4.4 |
| 9CI-PF3ONS (F-53B Major) | ng/L | 2.0 UJ | 2.2 UJ | 2.2 UJ | 0.62 | 2.2 | 4.4 |
| 11CI-PF3OUdS (F-53B Minor) | ng/L | 2.0 UJ | 2.2 UJ | 2.2 UJ | 0.57 | 2.2 | 4.4 |
| Notos: | | | | | | | |

Notes:

Sample SANG-FB-07152021 is a field blank.

Analytes highlighted in gray are the UCMR3 compounds.

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

Results bolded in **red** text are qualified based on validation.

DL = Detection Limit

J = Estimated result. Associated value may not be accurate or precise.

J+/- = Estimated result with a positive or negative bias.

LOD = Limit of Detection

LOQ = Limit of Quantitation

ng/L = nanograms per Liter or parts per trillion.

U = Undetected. Compound was analyzed for, but not detected.

UJ = Non-detects estimated results.

VALIDATED DATA

| BV Labs ID | | QDL566 | QDL568 | QDL567 | | | |
|-------------------------------------|-------|------------------|-------------------|-------------------|------|-----|-----|
| Sampling Date | | 2021/07/19 08:00 | 2021/07/19 08:10 | 2021/07/19 08:05 | | | |
| COC Number | | n/a | n/a | n/a | | | |
| | UNITS | SANG-FB-07192021 | SANG-INF-07192021 | SANG-EFF-07192021 | DL | LOD | LOQ |
| Perfluorinated Compounds | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ng/L | 1.4 U | 20 | 1.6 U | 0.77 | 1.6 | 2.3 |
| Perfluoropentanoic acid (PFPeA) | ng/L | 1.2 U | 54 | 1.4 U | 0.6 | 1.4 | 2.3 |
| Perfluorohexanoic acid (PFHxA) | ng/L | 1.4 U | 40 | 1.6 U | 0.81 | 1.6 | 2.3 |
| Perfluoroheptanoic acid (PFHpA) | ng/L | 1.2 U | 23 | 1.4 U | 0.59 | 1.4 | 2.3 |
| Perfluorooctanoic acid (PFOA) | ng/L | 1.2 U | 20 | 1.4 U | 0.56 | 1.4 | 2.3 |
| Perfluorononanoic acid (PFNA) | ng/L | 1.6 U | 5.8 | 1.8 U | 0.92 | 1.8 | 2.3 |
| Perfluorodecanoic acid (PFDA) | ng/L | 1.4 U | 4.1 | 1.6 U | 0.74 | 1.6 | 2.3 |
| Perfluoroundecanoic acid (PFUnA) | ng/L | 1.6 U | 1.8 U | 1.8 U | 0.89 | 1.8 | 2.3 |
| Perfluorododecanoic acid (PFDoA) | ng/L | 1.2 U | 1.4 U | 1.4 U | 0.68 | 1.4 | 2.3 |
| Perfluorotridecanoic acid (PFTRDA) | ng/L | 1.2 U | 1.4 U | 1.4 U | 0.55 | 1.4 | 2.3 |
| Perfluorotetradecanoic acid(PFTEDA) | ng/L | 1.2 U | 1.4 U | 1.4 U | 0.43 | 1.4 | 2.3 |
| Perfluorobutanesulfonic acid (PFBS) | ng/L | 1.2 U | 7.7 | 1.4 U | 0.54 | 1.4 | 2.3 |
| Perfluoropentanesulfonic acid PFPes | ng/L | 1.6 U | 9 | 1.8 U | 0.84 | 1.8 | 2.3 |
| Perfluorohexanesulfonic acid(PFHxS) | ng/L | 1.2 U | 58 | 1.4 U | 0.61 | 1.4 | 2.3 |
| Perfluoroheptanesulfonic acid PFHpS | ng/L | 1.2 U | 2.1 J | 1.4 U | 0.66 | 1.4 | 2.3 |
| Perfluorooctanesulfonic acid (PFOS) | ng/L | 1.2 U | 190 (1) | 1.4 U | 4.3 | 12 | 20 |
| Perfluorononanesulfonic acid (PFNS) | ng/L | 1.4 U | 1.6 U | 1.6 U | 0.74 | 1.6 | 2.3 |
| Perfluorodecanesulfonic acid (PFDS) | ng/L | 1.2 U | 1.4 U | 1.4 U | 0.61 | 1.4 | 2.3 |
| Perfluorooctane Sulfonamide (PFOSA) | ng/L | 2.0 U | 2.3 U | 2.3 UJ | 0.93 | 2.3 | 4.6 |
| MeFOSAA | ng/L | 3.0 U | 3.5 U | 3.5 U | 1.4 | 3.5 | 4.6 |
| EtFOSAA | ng/L | 3.0 U | 3.5 U | 3.5 U | 1.6 | 3.5 | 4.6 |
| 4:2 Fluorotelomer sulfonic acid | ng/L | 1.6 U | 1.8 U | 1.8 U | 0.79 | 1.8 | 4.6 |
| 6:2 Fluorotelomer sulfonic acid | ng/L | 1.6 U | 51 | 1.8 U | 0.68 | 1.8 | 4.6 |
| 8:2 Fluorotelomer sulfonic acid | ng/L | 1.6 U | 11 | 1.8 U | 0.86 | 1.8 | 4.6 |
| Hexafluoropropyleneoxide dimer acid | ng/L | 2.0 U | 2.3 U | 2.3 U | 0.98 | 2.3 | 4.6 |
| 4,8-Dioxa-3H-perfluorononanoic acid | ng/L | 1.2 U | 1.4 U | 1.4 U | 0.36 | 1.4 | 4.6 |
| 9CI-PF3ONS (F-53B Major) | ng/L | 2.0 U | 2.3 U | 2.3 U | 0.64 | 2.3 | 4.6 |
| 11CI-PF3OUdS (F-53B Minor) | ng/L | 2.0 U | 2.3 U | 2.3 U | 0.6 | 2.3 | 4.6 |
| *** | | | | | | | |

Notes:

Sample SANG-FB-07192021 is a field blank.

Analytes highlighted in gray are the UCMR3 compounds.

(1) Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was adjusted accordingly (10x). Results bolded in **red** text are qualified based on validation.

DL = Detection Limit ng/L = nanograms per Liter or parts per trillion.

LOD = Limit of Detection U = Undetected. Compound was analyzed for, but not detected.

RESULTS OF ANALYSES OF WATER VALIDATED DATA

| BV Labs ID | | QEK120 | QEK125 | QEK126 | QEK124 | QEK123 | QEK122 | QEK121 | | | |
|-------------------------------------|-------|------------------|-------------------|--------------------|--------------------|--------------------|--------------------|-------------------|------|-----|-----|
| Sampling Date | | 2021/07/22 08:00 | 2021/07/22 08:35 | 2021/07/22 08:35 | 2021/07/22 08:27 | 2021/07/22 08:20 | 2021/07/22 08:13 | 2021/07/22 08:05 | | | |
| | UNITS | SANG-FB-07222021 | SANG-INF-07222021 | SANG-INF-07222021D | SANG-PCG1-07222021 | SANG-PCG2-07222021 | SANG-PCR1-07222021 | SANG-EFF-07222021 | DL | LOD | LOQ |
| Perfluorinated Compounds | | | | | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ng/L | 1.4 U | 26 | 26 | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 0.77 | 1.6 | 2.3 |
| Perfluoropentanoic acid (PFPeA) | ng/L | 1.2 U | 80 | 81 | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 0.60 | 1.4 | 2.3 |
| Perfluorohexanoic acid (PFHxA) | ng/L | 1.4 U | 56 | 57 | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 0.81 | 1.6 | 2.3 |
| Perfluoroheptanoic acid (PFHpA) | ng/L | 1.2 U | 32 | 33 | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 0.59 | 1.4 | 2.3 |
| Perfluorooctanoic acid (PFOA) | ng/L | 1.2 U | 29 | 29 | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 0.56 | 1.4 | 2.3 |
| Perfluorononanoic acid (PFNA) | ng/L | 1.6 U | 7.3 | 7.4 | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 0.92 | 1.8 | 2.3 |
| Perfluorodecanoic acid (PFDA) | ng/L | 1.4 U | 4.9 | 4.1 | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 0.74 | 1.6 | 2.3 |
| 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 | 0.89 | 1.8 | 2.3 |
| Perfluorododecanoic acid (PFDoA) | ng/L | 1.2 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 0.68 | 1.4 | 2.3 |
| Perfluorotridecanoic acid (PFTRDA) | ng/L | 1.2 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 0.55 | 1.4 | 2.3 |
| Perfluorotetradecanoic acid(PFTEDA) | ng/L | 1.2 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 0.43 | 1.4 | 2.3 |
| Perfluorobutanesulfonic acid (PFBS) | ng/L | 1.2 U | 12 | 12 | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 0.54 | 1.4 | 2.3 |
| Perfluoropentanesulfonic acid PFPes | ng/L | 1.6 U | 13 | 13 | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 0.84 | 1.8 | 2.3 |
| Perfluorohexanesulfonic acid(PFHxS) | ng/L | 1.2 U | 85 | 83 | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 0.61 | 1.4 | 2.3 |
| Perfluoroheptanesulfonic acid PFHpS | ng/L | 1.2 U | 4.0 | 3.6 | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 0.66 | 1.4 | 2.3 |
| Perfluorooctanesulfonic acid (PFOS) | ng/L | 1.2 U | 290 (1) | 270 (1) | 0.99 J | 0.79 J | 1.3 J | 1.2 J | 4.3 | 12 | 20 |
| Perfluorononanesulfonic acid (PFNS) | ng/L | 1.4 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 0.74 | 1.6 | 2.3 |
| Perfluorodecanesulfonic acid (PFDS) | ng/L | 1.2 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 0.61 | 1.4 | 2.3 |
| Perfluorooctane Sulfonamide (PFOSA) | ng/L | 2.0 U | 2.3 UJ | 2.3 U | 2.3 U | 2.3 U | 2.3 U | 2.3 U | 0.93 | 2.3 | 4.5 |
| MeFOSAA | ng/L | 3.0 U | 3.5 U | 3.5 U | 3.5 U | 3.5 U | 3.5 U | 3.5 U | 1.4 | 3.5 | 4.5 |
| EtFOSAA | ng/L | 3.0 U | 3.5 U | 3.5 U | 3.5 U | 3.5 U | 3.5 U | 3.5 U | 1.6 | 3.5 | 4.5 |
| 4:2 Fluorotelomer sulfonic acid | ng/L | 1.6 U | 1.1 J | 0.93 J | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 0.79 | 1.8 | 4.5 |
| 6:2 Fluorotelomer sulfonic acid | ng/L | 1.6 U | 80 | 79 | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 0.68 | 1.8 | 4.5 |
| 8:2 Fluorotelomer sulfonic acid | ng/L | 1.6 U | 11 | 8.6 | 1.8 U | 1.8 U | 1.8 U | 1.8 U | 0.86 | 1.8 | 4.5 |
| Hexafluoropropyleneoxide dimer acid | ng/L | 2.0 U | 2.3 U | 2.3 U | 2.3 U | 2.3 U | 2.3 U | 2.3 U | 0.98 | 2.3 | 4.5 |
| 4,8-Dioxa-3H-perfluorononanoic acid | ng/L | 1.2 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 0.36 | 1.4 | 4.5 |
| 9CI-PF3ONS (F-53B Major) | ng/L | 2.0 U | 2.3 U | 2.3 U | 2.3 U | 2.3 U | 2.3 U | 2.3 U | 0.64 | 2.3 | 4.5 |
| 11CI-PF3OUdS (F-53B Minor) | ng/L | 2.0 U | 2.3 U | 2.3 U | 2.3 U | 2.3 U | 2.3 U | 2.3 U | 0.60 | 2.3 | 4.5 |

Sample SANG-FB-07222021 is a field blank.

Sample SANG-INF-07222021D is a field duplicate of SANG-INF-07222021.

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

Results bolded in **red** text are qualifided based on validation.

A variance to the extracted internal standard (EIS) recovery criteria has been granted allowing for results to be accepted with recoveries outside of tolerance limits for this parameter. Compounds highlighted in gray are the UCMR3 PFAS analytes.

DL = Detection Limit

LOQ = Limit of Quantitation

ng/L = Nanograms per Liter or parts per trillion.

J = Estimated Result. Associated value may not be accurate or precise. QC Batch = Quality Control Batch

LOD = Limit of Detection

U = Undetected. Compound was analyzed for but not detected.

VALIDATED DATA

| BV Labs ID | | QFL180 | QFL185 | QFL186 | QFL184 | QFL183 | QFL182 | QFL181 | | | |
|-------------------------------------|-------|------------------|-------------------|--------------------|--------------------|--------------------|--------------------|-------------------|------|-----|-----|
| Sampling Date | • | 2021/07/27 07:30 | 2021/07/27 08:00 | 2021/07/27 08:00 | 2021/07/27 07:55 | 2021/07/27 07:48 | 2021/07/27 07:42 | 2021/07/27 07:35 | | | |
| | UNITS | SANG-FB-07272021 | SANG-INF-07272021 | SANG-INF-07272021D | SANG-PDG1-07272021 | SANG-PDG2-07272021 | SANG-PDR1-07272021 | SANG-EFF-07272021 | DL | LOD | LOQ |
| Perfluorinated Compounds | | | | | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ng/L | 1.4 U | 23 | 23 | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 0.67 | 1.4 | 2 |
| Perfluoropentanoic acid (PFPeA) | ng/L | 1.2 U | 74 | 74 | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 0.52 | 1.2 | 2 |
| Perfluorohexanoic acid (PFHxA) | ng/L | 1.4 U | 54 | 54 | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 0.7 | 1.4 | 2 |
| Perfluoroheptanoic acid (PFHpA) | ng/L | 1.2 U | 29 | 28 | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 0.51 | 1.2 | 2 |
| Perfluorooctanoic acid (PFOA) | ng/L | 1.2 U | 26 | 25 | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 0.49 | 1.2 | 2 |
| Perfluorononanoic acid (PFNA) | ng/L | 1.6 U | 6.9 | 6.9 | 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 | 4.9 | 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 | 0.88 J | 0.83 J | 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 UJ | 1.2 U | 1.2 UJ | 1.2 UJ | 1.2 U | 1.2 U | 0.48 | 1.2 | 2 |
| Perfluorotetradecanoic acid(PFTEDA) | ng/L | 1.2 U | 1.2 UJ | 1.2 U | 1.2 UJ | 1.2 UJ | 1.2 U | 1.2 U | 0.37 | 1.2 | 2 |
| Perfluorobutanesulfonic acid (PFBS) | ng/L | 1.2 U | 13 | 12 | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 0.47 | 1.2 | 2 |
| Perfluoropentanesulfonic acid PFPes | ng/L | 1.6 U | 13 | 13 | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 0.73 | 1.6 | 2 |
| Perfluorohexanesulfonic acid(PFHxS) | ng/L | 1.2 U | 75 | 71 | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 0.53 | 1.2 | 2 |
| Perfluoroheptanesulfonic acid PFHpS | ng/L | 1.2 U | 3.7 | 3.6 | 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 | 1.2 U | 0.67 J | 1.2 U | 0.43 | 1.2 | 2 |
| 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 UJ | 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 | 67 | 67 | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 0.59 | 1.6 | 4 |
| 8:2 Fluorotelomer sulfonic acid | ng/L | 1.6 U | 13 | 12 | 1.6 U | 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 |
| 9CI-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 |
| 11CI-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:

Sample SANG-FB-07272021 is a field blank.

Sample SANG-INF-07272021D is a field duplicate of SANG-INF-07272021.

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

Results bolded in red text are qualified based on validation

Compounds highlighted in gray are the UCMR3 PFAS analytes.

DL = Detection Limit

J = Estimated result. Assocaited value may not be accurate or precise. U = Undetected. Compound was analyzed for but not detected.

LOD = Limit of Detection

LOQ = Limit of Quantitation

ng/L = nanograms per liter or parts per trillion.

UJ = Not detected at an estimated limit of detection.

VALIDATED DATA

| REGULTO OF ANALTOLS OF WATER | | | | | | | | | | | |
|-------------------------------------|-------|------------------|-------------------|--------------------|--------------------|--------------------|--------------------|-------------------|------|-----|-----|
| BV Labs ID | | QGX506 | QGX511 | QGX512 | QGX510 | QGX509 | QGX508 | QGX507 | | | |
| Sampling Date | | 2021/08/03 09:45 | 2021/08/03 10:15 | 2021/08/03 10:15 | 2021/08/03 10:12 | 2021/08/03 10:05 | 2021/08/03 09:58 | 2021/08/03 09:50 | | | |
| COC Number | | n/a | n/a | n/a | n/a | n/a | n/a | n/a | | | |
| | UNITS | SANG-FB-08032021 | SANG-INF-08032021 | SANG-INF-08032021D | SANG-PAG1-08032021 | SANG-PAG2-08032021 | SANG-PAR1-08032021 | SANG-EFF-08032021 | DL | LOD | LOQ |
| Perfluorinated Compounds | | | | | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ng/L | 1.4 U | 24 | 22 | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 0.74 | 1.5 | 2.2 |
| Perfluoropentanoic acid (PFPeA) | ng/L | 1.2 U | 73 | 75 | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 0.57 | 1.3 | 2.2 |
| Perfluorohexanoic acid (PFHxA) | ng/L | 1.4 U | 58 | 56 | 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 | 28 | 28 | 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 | 26 | 26 | 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 | 6.1 | 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 | 4.8 | 4.6 | 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 | 14 | 14 | 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 | 75 | 78 | 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 | 3.5 | 3.3 | 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 | 230 (1) | 210 (1) | 1.6 J | 0.94 J | 1.1 J | 1.3 U | 0.47 | 1.3 | 2.2 |
| 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 UJ | 2.2 UJ | 2.2 UJ | 2.2 UJ | 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 | 1.8 U | 0.77 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 | 72 | 68 | 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 | 18 | 17 | 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 |
| 9CI-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 |
| 11CI-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 |

DL = Detection Limit

J = Estimated result. Associated value may not be acurate of precise.

LOD = Limit of Detection

LOQ = Limit of Quantitation

N/A = Not Applicable

ng/L = Nanograms per Liter or parts per trillion

QC Batch = Quality Control Batch

U = Undetected. Compound was analyzed for, but not detected.

⁽¹⁾ Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was adjusted accordingly (10x). Compounds highlighted in gray are the UCMR3 analytes.

Results bolded in red text are qualified based on validation.

RESULTS OF ANALYSES OF WATER VALIDATED DATA

| BV Labs ID | | QIR701 | QIR706 | QIR707 | QIR705 | QIR704 | QIR703 | QIR702 | | | |
|-------------------------------------|-------|------------------|-------------------|--------------------|--------------------|--------------------|--------------------|-------------------|------|-----|-----|
| Sampling Date | | 2021/08/10 08:15 | 2021/08/10 08:50 | 2021/08/10 08:50 | 2021/08/10 08:43 | 2021/08/10 08:35 | 2021/08/10 08:27 | 2021/08/10 08:20 | | | |
| COC Number | | na | na | na | na | na | na | na | | | |
| | UNITS | SANG-FB-08102021 | SANG-INF-08102021 | SANG-INF-08102021D | SANG-PBG1-08102021 | SANG-PBG2-08102021 | SANG-PBR1-08102021 | SANG-EFF-08102021 | DL | LOD | LOQ |
| Perfluorinated Compounds | | | | | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ng/L | 1.4 U | 38 | 37 | 1.5 U | 1.5 U | 1.5 U | 1.5 U | 0.74 | 1.5 | 2.2 |
| Perfluoropentanoic acid (PFPeA) | ng/L | 1.2 U | 110 (1) | 110 (1) | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 0.57 | 1.3 | 2.2 |
| Perfluorohexanoic acid (PFHxA) | ng/L | 1.4 U | 95 | 94 | 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 | 40 | 40 | 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 | 37 | 36 | 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 | 9.1 | 9.3 | 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 | 6.1 | 5.7 | 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 UJ | 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 UJ | 1.3 U | 1.3 U | 1.3 U | 0.41 | 1.3 | 2.2 |
| Perfluorobutanesulfonic acid (PFBS) | ng/L | 1.2 U | 23 | 22 | 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 | 26 | 25 | 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 | 130 (1) | 130 (1) | 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 | 5.8 | 5.5 | 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 | 320 (1) | 310 (1) | 1.3 U | 1.3 U | 1.3 U | 1.3 U | 0.47 | 1.3 | 2.2 |
| 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 UJ | 2.2 U | 2.2 UJ | 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 | 1.4 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 | 100 | 100 | 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 | 15 | 14 | 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 |
| 9CI-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 |
| 11CI-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

(1) Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was adjusted accordingly (10x). Compounds highlighted in gray are the UCMR3 analytes.

Results bolded in **red** text are qualified based on validation.

DL = Detection Limit

J = Estimated result. Associated value may not be acurate of precise.

LOD = Limit of Detection

LOQ = Limit of Quantitation

N/A = Not Applicable

ng/L = Nanograms per Liter or parts per trillion

QC Batch = Quality Control Batch

U = Undetected. Compound was analyzed for, but not detected.

RESULTS OF ANALYSES OF WATER VALIDATED DATA

| BV Labs ID | | QKH432 | QKH437 | QKH438 | QKH436 | QKH435 | QKH434 | QKH433 | | | |
|-------------------------------------|-------|------------------|-------------------|--------------------|--------------------|--------------------|--------------------|-------------------|------|-----|-----|
| Sampling Date | • | 2021/08/17 07:10 | 2021/08/17 07:40 | 2021/08/17 07:40 | 2021/08/17 07:34 | 2021/08/17 07:28 | 2021/08/17 07:22 | 2021/08/17 07:15 | | | |
| | UNITS | SANG-FB-08172021 | SANG-INF-08172021 | SANG-INF-08172021D | SANG-PCG1-08172021 | SANG-PCG2-08172021 | SANG-PCR1-08172021 | SANG-EFF-08172021 | DL | LOD | LOQ |
| Perfluorinated Compounds | | | | | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ng/L | 1.4 UJ | 25 J | 25 J | 1.4 UJ | 1.4 UJ | 1.4 UJ | 1.4 UJ | 0.67 | 1.4 | 2.0 |
| Perfluoropentanoic acid (PFPeA) | ng/L | 1.2 UJ | 80 J | 79 J | 0.61 J | 1.2 UJ | 1.2 UJ | 1.2 UJ | 0.52 | 1.2 | 2.0 |
| Perfluorohexanoic acid (PFHxA) | ng/L | 1.4 UJ | 66 J | 66 J | 1.4 UJ | 1.4 UJ | 1.4 UJ | 1.4 UJ | 0.70 | 1.4 | 2.0 |
| Perfluoroheptanoic acid (PFHpA) | ng/L | 1.2 UJ | 30 J | 29 J | 1.2 UJ | 1.2 UJ | 1.2 UJ | 1.2 UJ | 0.51 | 1.2 | 2.0 |
| Perfluorooctanoic acid (PFOA) | ng/L | 1.2 UJ | 27 J | 27 J | 1.2 UJ | 1.2 UJ | 1.2 UJ | 1.2 UJ | 0.49 | 1.2 | 2.0 |
| Perfluorononanoic acid (PFNA) | ng/L | 1.6 UJ | 6.9 J | 6.9 J | 1.6 UJ | 1.6 UJ | 1.6 UJ | 1.6 UJ | 0.80 | 1.6 | 2.0 |
| Perfluorodecanoic acid (PFDA) | ng/L | 1.4 UJ | 5.6 J | 5.2 J | 0.76 J | 1.4 UJ | 1.4 UJ | 1.4 UJ | 0.64 | 1.4 | 2.0 |
| Perfluoroundecanoic acid (PFUnA) | ng/L | 1.6 UJ | 1.1 J | 1.0 J | 1.6 UJ | 1.6 UJ | 1.6 UJ | 1.6 UJ | 0.77 | 1.6 | 2.0 |
| Perfluorododecanoic acid (PFDoA) | ng/L | 1.2 UJ | 1.1 J | 1.1 J | 1.2 UJ | 1.2 UJ | 1.2 UJ | 1.2 UJ | 0.59 | 1.2 | 2.0 |
| Perfluorotridecanoic acid (PFTRDA) | ng/L | 1.2 UJ | 1.2 UJ | 1.2 UJ | 1.2 UJ | 1.2 UJ | 1.2 UJ | 1.2 UJ | 0.48 | 1.2 | 2.0 |
| Perfluorotetradecanoic acid(PFTEDA) | ng/L | 1.2 UJ | 1.2 UJ | 1.2 UJ | 1.2 UJ | 1.2 UJ | 1.2 UJ | 1.2 UJ | 0.37 | 1.2 | 2.0 |
| Perfluorobutanesulfonic acid (PFBS) | ng/L | 1.2 UJ | 15 J | 15 J | 1.2 UJ | 1.2 UJ | 1.2 UJ | 1.2 UJ | 0.47 | 1.2 | 2.0 |
| Perfluoropentanesulfonic acid PFPes | ng/L | 1.6 UJ | 15 J | 16 J | 1.6 UJ | 1.6 UJ | 1.6 UJ | 1.6 UJ | 0.73 | 1.6 | 2.0 |
| Perfluorohexanesulfonic acid(PFHxS) | ng/L | 1.2 UJ | 84 J | 86 J | 1.2 UJ | 1.2 UJ | 1.2 UJ | 1.2 UJ | 0.53 | 1.2 | 2.0 |
| Perfluoroheptanesulfonic acid PFHpS | ng/L | 1.2 UJ | 4.0 J | 4.2 J | 1.2 UJ | 1.2 UJ | 1.2 UJ | 1.2 UJ | 0.57 | 1.2 | 2.0 |
| Perfluorooctanesulfonic acid (PFOS) | ng/L | 1.2 UJ | 230 (1) J | 240 (1) J | 2.1 J | 1.1 J | 1.3 J | 1.2 J | 0.43 | 1.2 | 2.0 |
| Perfluorononanesulfonic acid (PFNS) | ng/L | 1.4 UJ | 1.4 UJ | 1.4 UJ | 1.4 UJ | 1.4 UJ | 1.4 UJ | 1.4 UJ | 0.64 | 1.4 | 2.0 |
| Perfluorodecanesulfonic acid (PFDS) | ng/L | 1.2 UJ | 1.2 UJ | 1.2 UJ | 1.2 UJ | 1.2 UJ | 1.2 UJ | 1.2 UJ | 0.53 | 1.2 | 2.0 |
| Perfluorooctane Sulfonamide (PFOSA) | ng/L | 2.0 UJ | 2.0 UJ | 0.83 J | 2.0 UJ | 2.0 UJ | 2.0 UJ | 2.0 UJ | 0.81 | 2.0 | 4.0 |
| MeFOSAA | ng/L | 3.0 UJ | 3.0 UJ | 3.0 UJ | 3.0 UJ | 3.0 UJ | 3.0 UJ | 3.0 UJ | 1.2 | 3.0 | 4.0 |
| EtFOSAA | ng/L | 3.0 UJ | 3.0 UJ | 3.0 UJ | 3.0 UJ | 3.0 UJ | 3.0 UJ | 3.0 UJ | 1.4 | 3.0 | 4.0 |
| 4:2 Fluorotelomer sulfonic acid | ng/L | 1.6 UJ | 1.6 J | 1.5 J | 1.6 UJ | 1.6 UJ | 1.6 UJ | 1.6 UJ | 0.69 | 1.6 | 4.0 |
| 6:2 Fluorotelomer sulfonic acid | ng/L | 1.6 UJ | 79 J | 79 J | 1.6 UJ | 1.6 UJ | 1.6 UJ | 1.6 UJ | 0.59 | 1.6 | 4.0 |
| 8:2 Fluorotelomer sulfonic acid | ng/L | 1.6 UJ | 12 J | 11 J | 0.89 J | 1.6 UJ | 1.6 UJ | 1.6 UJ | 0.75 | 1.6 | 4.0 |
| Hexafluoropropyleneoxide dimer acid | ng/L | 2.0 UJ | 2.0 UJ | 2.0 UJ | 2.0 UJ | 2.0 UJ | 2.0 UJ | 2.0 UJ | 0.85 | 2.0 | 4.0 |
| 4,8-Dioxa-3H-perfluorononanoic acid | ng/L | 1.2 UJ | 1.2 UJ | 1.2 UJ | 1.2 UJ | 1.2 UJ | 1.2 UJ | 1.2 UJ | 0.31 | 1.2 | 4.0 |
| 9CI-PF3ONS (F-53B Major) | ng/L | 2.0 UJ | 2.0 UJ | 2.0 UJ | 2.0 UJ | 2.0 UJ | 2.0 UJ | 2.0 UJ | 0.56 | 2.0 | 4.0 |
| 11CI-PF3OUdS (F-53B Minor) | ng/L | 2.0 UJ | 2.0 UJ | 2.0 UJ | 2.0 UJ | 2.0 UJ | 2.0 UJ | 2.0 UJ | 0.52 | 2.0 | 4.0 |

Notes:

Sample SANG-FB-08172021 is a field blank.

Sample SANG-INF-08172021D is a field duplicate of SANG-INF-08172021.

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

Compounds highlighted in gray are the UCMR3 PFAS analytes.

Results bolded in red text are qualified based on validation. (temperature elevated upon receipt by laboratory)

DL = Detection Limit

ng/L = nanograms per liter or parts per trillion.

J = Estimated result. Associated value may not be accurate or precise. U = Undetected. Compound was analyzed for but not detected.

LOD = Limit of Detection LOQ = Limit of Quantitation

VALIDATED DATA RESULTS OF ANALYSES OF WATER

| BV Labs ID | | QLX740 | QLX745 | QLX746 | QLX744 | QLX743 | QLX742 | QLX741 | | | |
|-------------------------------------|-------|------------------|-------------------|--------------------|--------------------|--------------------|--------------------|-------------------|------|-----|-----|
| Sampling Date | | 2021/08/24 08:00 | 2021/08/24 08:30 | 2021/08/24 08:30 | 2021/08/24 08:25 | 2021/08/24 08:17 | 2021/08/24 08:11 | 2021/08/24 08:05 | | | |
| | UNITS | SANG-FB-08242021 | SANG-INF-08242021 | SANG-INF-08242021D | SANG-PDG1-08242021 | SANG-PDG2-08242021 | SANG-PDR1-08242021 | SANG-EFF-08242021 | DL | LOD | LOQ |
| Perfluorinated Compounds | | | | | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ng/L | 1.4 U | 14 | 14 | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 0.67 | 1.4 | 2 |
| Perfluoropentanoic acid (PFPeA) | ng/L | 1.2 U | 37 | 37 | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 0.52 | 1.2 | 2 |
| Perfluorohexanoic acid (PFHxA) | ng/L | 1.4 U | 29 | 30 | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 0.7 | 1.4 | 2 |
| Perfluoroheptanoic acid (PFHpA) | ng/L | 1.2 U | 20 | 20 | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 0.51 | 1.2 | 2 |
| Perfluorooctanoic acid (PFOA) | ng/L | 1.2 U | 17 | 17 | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 0.49 | 1.2 | 2 |
| Perfluorononanoic acid (PFNA) | ng/L | 1.6 U | 4.6 | 4.6 | 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 | 2.8 | 2.7 | 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 | 7.2 | 7.1 | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 0.47 | 1.2 | 2 |
| Perfluoropentanesulfonic acid PFPes | ng/L | 1.6 U | 7.1 | 7.1 | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 0.73 | 1.6 | 2 |
| Perfluorohexanesulfonic acid(PFHxS) | ng/L | 1.2 U | 58 | 56 | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 0.53 | 1.2 | 2 |
| Perfluoroheptanesulfonic acid PFHpS | ng/L | 1.2 U | 2 | 2.1 | 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 | 170 (1) | 160 (1) | 0.82 J | 0.72 J | 1.2 U | 0.66 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 |
| 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 | 1.6 U | 0.78 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 | 40 | 39 | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 0.59 | 1.6 | 4 |
| 8:2 Fluorotelomer sulfonic acid | ng/L | 1.6 U | 15 | 15 | 1.6 U | 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 |
| 9CI-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 |
| 11CI-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 |

Sample SANG-FB-08242021 is a field blank.

Sample SANG-INF-08242021D is a field duplicate of SANG-INF-08242021.

Analytes highlighted in gray are the UCMR3 compounds.

(1) Due to high concentration of the target analyte, a reduced sample volume was extracted and analyzed. Detection limit was adjusted accordingly (10x). Results bolded in red text are qualified based on validation.

DL = Detection Limit

J = Estimated result. Associated value may not be accurate or precise. ng/L = nanograms per Liter or parts per trillion.

LOQ = Limit of Quantitation

LOD = Limit of Detection

U = Undetected. Compound was analyzed for, but not detected.

VALIDATED DATA

| BV Labs ID | | QNN834 | QNN839 | QNN840 | QNN838 | QNN837 | QNN836 | QNN835 | | | |
|-------------------------------------|-------|------------------|-------------------|--------------------|--------------------|--------------------|--------------------|-------------------|------|-----|-----|
| Sampling Date | | 2021/08/31 08:30 | 2021/08/31 08:55 | 2021/08/31 08:55 | 2021/08/31 08:50 | 2021/08/31 08:46 | 2021/08/31 08:41 | 2021/08/31 08:35 | | | |
| COC Number | | n/a | n/a | n/a | n/a | n/a | n/a | n/a | | | |
| | UNITS | SANG-FB-08312021 | SANG-INF-08312021 | SANG-INF-08312021D | SANG-PAG1-08312021 | SANG-PAG2-08312021 | SANG-PAR1-08312021 | SANG-EFF-08312021 | DL | LOD | LOQ |
| Perfluorinated Compounds | | | | | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ng/L | 1.5 U | 10 J | 14 J | 0.88 J | 1.4 U | 1.4 U | 1.4 U | 0.67 | 1.4 | 2.0 |
| Perfluoropentanoic acid (PFPeA) | ng/L | 1.3 U | 56 | 55 | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 0.52 | 1.2 | 2.0 |
| Perfluorohexanoic acid (PFHxA) | ng/L | 1.5 U | 45 | 45 | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 0.70 | 1.4 | 2.0 |
| Perfluoroheptanoic acid (PFHpA) | ng/L | 1.3 U | 23 | 23 | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 0.51 | 1.2 | 2.0 |
| Perfluorooctanoic acid (PFOA) | ng/L | 1.3 U | 22 | 22 | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 0.49 | 1.2 | 2.0 |
| Perfluorononanoic acid (PFNA) | ng/L | 1.8 U | 5.6 | 5.9 | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 0.80 | 1.6 | 2.0 |
| Perfluorodecanoic acid (PFDA) | ng/L | 1.5 U | 3.6 | 3.8 | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 0.64 | 1.4 | 2.0 |
| Perfluoroundecanoic acid (PFUnA) | ng/L | 1.8 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 | 1.3 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 | 1.3 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 | 1.3 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 | 1.3 U | 9.8 | 9.0 | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 0.47 | 1.2 | 2.0 |
| Perfluoropentanesulfonic acid PFPes | ng/L | 1.8 U | 9.8 | 11 | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 0.73 | 1.6 | 2.0 |
| Perfluorohexanesulfonic acid(PFHxS) | ng/L | 1.3 U | 69 | 65 | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 0.53 | 1.2 | 2.0 |
| Perfluoroheptanesulfonic acid PFHpS | ng/L | 1.3 U | 2.3 | 2.7 | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 0.57 | 1.2 | 2.0 |
| Perfluorooctanesulfonic acid (PFOS) | ng/L | 1.3 U | 190 (1) | 200 (1) | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 0.43 | 1.2 | 2.0 |
| Perfluorononanesulfonic acid (PFNS) | ng/L | 1.5 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 | 1.3 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 | 2.2 U | 2.0 UJ | 2.0 UJ | 2.0 UJ | 2.0 UJ | 2.0 UJ | 2.0 UJ | 0.81 | 2.0 | 4.0 |
| MeFOSAA | ng/L | 3.3 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 | 3.3 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 | 1.8 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 | 1.8 U | 60 | 51 | 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 | 1.8 U | 13 | 11 | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 0.75 | 1.6 | 4.0 |
| Hexafluoropropyleneoxide dimer acid | ng/L | 2.2 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 | 1.3 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 |
| 9CI-PF3ONS (F-53B Major) | ng/L | 2.2 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 |
| 11CI-PF3OUdS (F-53B Minor) | ng/L | 2.2 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: | | _ | • | | | • | • | | | | |

Notes

Sample SANG-FB-08312021 is a field blank.

Sample SANG-INF-08312021D is a field duplicate of SANG-INF-08312021.

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

Compounds highlighted in gray represent the UCMR3 PFAS analytes.

Results bolded in red text are qualified based on validation.

DL = Detection Limit

J = Estimated result. Associted value may not be accurate or precise.

LOD = Limit of Detection

LOQ = Limit of Quantitation

ng/L = Nanograms per liter or parts per trillion.

U = Undetected. Compound was analyzed for but not detected.

UJ = Not detected at an estimated limit of detection.

VALIDATED DATA

| | | QPG761 | QPG766 | QPG767 | QPG765 | QPG764 | QPG763 | QPG762 | | | |
|-------------------------------------|-------|------------------|-------------------|--------------------|--------------------|--------------------|--------------------|-------------------|------|-----|-----|
| Sampling Date | | 2021/09/08 08:00 | 2021/09/08 08:37 | 2021/09/08 08:37 | 2021/09/08 08:30 | 2021/09/08 08:23 | 2021/09/08 08:15 | 2021/09/08 08:05 | | | |
| COC Number | | n/a | n/a | n/a | n/a | n/a | n/a | n/a | | | |
| l | UNITS | SANG-FB-09082021 | SANG-INF-09082021 | SANG-INF-09082021D | SANG-PBG1-09082021 | SANG-PBG2-09082021 | SANG-PBR1-09082021 | SANG-EFF-09082021 | DL | LOD | LOQ |
| Perfluorinated Compounds | | | | | | | | | | | |
| Perfluorobutanoic acid (PFBA) | ng/L | 1.4 U | 46 | 45 | 6.5 | 1.4 U | 1.4 U | 1.4 U | 0.67 | 1.4 | 2 |
| Perfluoropentanoic acid (PFPeA) | ng/L | 1.2 U | 130 (1) | 130 (1) | 2.2 | 0.74 J | 1.2 U | 1.2 U | 0.52 | 1.2 | 2 |
| Perfluorohexanoic acid (PFHxA) | ng/L | 1.4 U | 100 (1) | 110 (1) | 1.4 U | 1.4 U | 1.4 U | 1.4 U | 0.7 | 1.4 | 2 |
| Perfluoroheptanoic acid (PFHpA) | ng/L | 1.2 U | 57 | 59 | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 0.51 | 1.2 | 2 |
| Perfluorooctanoic acid (PFOA) | ng/L | 1.2 U | 52 | 53 | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 0.49 | 1.2 | 2 |
| Perfluorononanoic acid (PFNA) | ng/L | 1.6 U | 14 | 13 | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 8.0 | 1.6 | 2 |
| Perfluorodecanoic acid (PFDA) | ng/L | 1.4 U | 7.8 | 8.2 | 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 | 0.80 J | 0.80 J | 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 | 0.76 J | 0.66 J | 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 | 21 | 21 | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 0.47 | 1.2 | 2 |
| Perfluoropentanesulfonic acid PFPes | ng/L | 1.6 U | 25 | 26 | 1.6 U | 1.6 U | 1.6 U | 1.6 U | 0.73 | 1.6 | 2 |
| Perfluorohexanesulfonic acid(PFHxS) | ng/L | 1.2 U | 160 (1) | 150 (1) | 1.2 U | 1.2 U | 1.2 U | 1.2 U | 0.53 | 1.2 | 2 |
| Perfluoroheptanesulfonic acid PFHpS | ng/L | 1.2 U | 8.1 | 7.9 | 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 | 450 (1) | 460 (1) | 1.3 J | 1.2 U | 0.62 J | 1.2 U | 0.43 | 1.2 | 2 |
| 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 |
| | ng/L | 2.0 U | 0.90 J | 0.94 J | 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 | 1.8 J | 2.0 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 | 4.2 | 180 (1) | 170 (1) | 1.8 U | 1.6 U | 11 J+ | 5.4 J+ | 0.59 | 1.6 | 4 |
| 8:2 Fluorotelomer sulfonic acid | ng/L | 1.6 U | 48 | 56 | 1.6 U | 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 |
| | 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 |
| 11CI-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:

Sample SANG-FB-09082021 is a field blank.

Sample SANG-INF-09082021D is a field duplicate of SANG-INF-09082021.

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

Compounds highlighted in gray are the UCMR3 PFAS analytes. Results bolded in red text are qualified based on validation.

DL = Detection Limit

J = Estimated Result. Associated value may not be accurate or precise.

J+ = Estimated Result with a high bias. A more accurate result is expected to be lower.

LOD = Limit of Detection

LOQ = Limit of Quantitation

ng/L = nanograms per Liter or parts per trillion.

U = Undetected. Compound was analyzed for but not detected.



TABLE 2 - OTHER WATER QUALITY MONITORING RESULTS

| | | Glycols | | |
|--------------------|------------------|-----------------|-------------------------|-----------------|
| Sample Parameter | Sampling Date | Influent (mg/L) | GAC2 Effluent (mg/L) | Effluent (mg/L) |
| Diethylene glycol | | <52 | <52 | <52 |
| Ethylene glycol | 7/8/2021 | <10 | <10 | <10 |
| Propylene glycol | //6/2021 | <10 | <10 | <10 |
| Triethylene Glycol | | <54 | <54 | <54 |
| Diethylene glycol | | <52 | <52 | <52 |
| Ethylene glycol | 8/10/2021 | <10 | <10 | <10 |
| Propylene glycol | 0/10/2021 | <10 | <10 | <10 |
| Triethylene Glycol | | <54 | <54 | <54 |
| Diethylene glycol | | <52 | <52 | <52 |
| Ethylene glycol | 0/9/2021 | <10 | <10 | <10 |
| Propylene glycol | 9/8/2021 | <10 | <10 | <10 |
| Triethylene Glycol | | <54 | <54 | <54 |

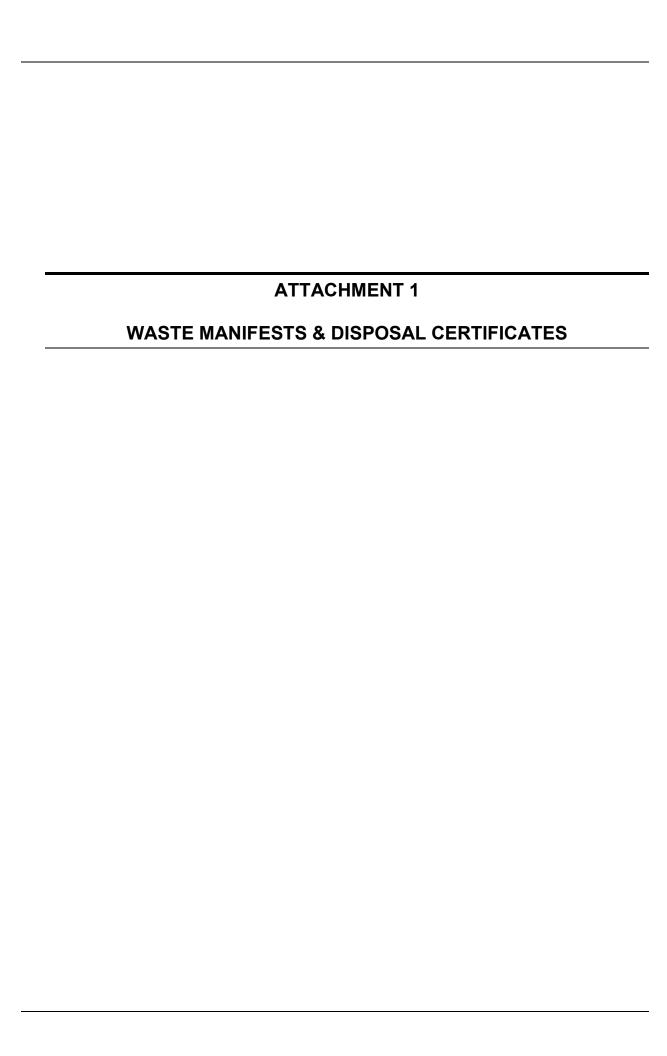
| Total Organic Carbon (TOC) | | | | | | | | |
|---|-----------|-----|-------|-------|--|--|--|--|
| Sample Parameter Sampling Date Influent (mg/L) GAC2 Effluent (mg/L) Effluent (mg/L) | | | | | | | | |
| TOC | 7/8/2021 | 4.9 | 1.2 | 1.5 | | | | |
| TOC | 8/10/2021 | 1.9 | <0.90 | <0.90 | | | | |
| TOC | 9/8/2021 | 3.2 | 0.9 | 0.9 | | | | |

| 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 |
|---------------|---|---|--|------------------------------|---|--|
| July 1, 2021 | | 10 Micron Regular | | Coarse Sand Filters 2A/2B | | |
| July 2, 2021 | 25 Micron Pleated | | Primary Carbon vessels A, B, C, & D | | | |
| July 6, 2021 | 25 Micron Pleated | 10 Micron Pleated | | Fine Sand Filters 3A/3B | | |
| July 7, 2021 | 25 Micron Regular | 10 Micron Regular | Primary Carbon vessels A, B, C, & D | | | |
| July 8, 2021 | | | | | | After skimming Resin vessels A (~4"), B (~4"), C (~5") & D (~4") |
| July 9, 2021 | 25 Micron Pleated | | Primary Carbon vessels A, B, C, & D | | | |
| July 12, 2021 | | | Primary Carbon vessels A, B, C, & D | | | |
| July 14, 2021 | 25 Micron Regular | | | Fine Sand Filters 4A/4B | Train B Media replaced. | |
| July 15 2021 | | | Train B GAC Primary and Secondary | | Train B placed on line. Train A media replaced | |
| July 16, 2021 | | | Train A GAC Primary and Secondary | Fine Sand Filters 5A/5B | Train A placed on line. Train C media replaced | |
| July 17, 2021 | 25 Micron Pleated | 10 Micron Regular | Train C GAC Primary and Secondary | | Train C placed on line. Train D media removed | |
| July 19, 2021 | | 10 Micron Regular | | | Train D Resin and GAC 2 vessels swapped becasuse of corrosion in former GAC-2 vessel. Train D Media replaced | |
| July 20, 2021 | | | Train D GAC Primary and Secondary | | Train D placed on line | |
| July 21, 2021 | | 10 Micron Pleated | | | | |
| July 22, 2021 | 25 Micron Regular | | | Coarse Sand Filters 1A/1B | | |
| July 23, 2021 | 25 Micron Pleated | | Primary Carbon vessels A, B, C, & D | | | |

| 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 |
|-----------------|---|---|--|--|------------------|-----------------------|
| July 26, 2021 | 25 Micron Regular | 10 Micron Regular | | | | |
| July 27, 2021 | 25 Micron Pleated | 10 Micron Pleated | | | | |
| July 28, 2021 | | | | Fine Sand Filters 5A/5B | | |
| July 29, 2021 | 25 Micron Regular | 10 Micron Regular | | Coarse Sand Filters 2A/2B Fine Sand Filters 4A/4B | | |
| July 30, 2021 | 25 Micron Pleated | | Primary Carbon vessels A, B, C, & D | | | |
| August 2, 2021 | 25 Micron Pleated | | | | | |
| August 3, 2021 | 25 Micron Pleated | 10 Micron Pleated | | | | |
| August 4, 2021 | | | | Fine Sand Filters 3A/3B | | |
| August 5, 2021 | | 10 Micron Regular | | Fine Sand Filters 4A/4B | | |
| August 6, 2021 | 25 Micron Pleated | | Primary Carbon vessels A, B, C, & D | | | |
| August 9, 2021 | | 10 Micron Pleated | | | | |
| August 10, 2021 | 25 Micron Regular | 10 Micron Regular | | | | |
| August 11, 2021 | | 10 Micron Pleated | | Fine Sand Filters 5A/5B | | |
| August 12, 2021 | | | Primary Carbon vessels A, B, C, & D | Coarse Sand Filters 1A/1B | | |

| 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 |
|-------------------|---|---|--|--|-------------------------------|-------------------------------------|
| August 13, 2021 | 25 Micron Pleated | | | | | |
| August 16, 2021 | | 10 Micron Pleated | | | Added 5 gallons of Perisan | |
| August 17, 2021 | 25 Micron Regular | | Primary Carbon vessels A, B, C, & D | | | |
| August 18, 2021 | | 10 Micron Regular | Secondary Carbon vessels A, B, C, & D | | | |
| August 19, 2021 | | 10 Micron Regular | Primary Carbon vessels A, B, C, & D | Coarse Sand Filters 2A/2B Fine Sand Filters 3A/3B | | |
| August 20, 2021 | 25 Micron Pleated | | | | | |
| August 23, 2021 | | 10 Micron Regular | | | | Inspect and Level only. No skimming |
| August 24, 2021 | | | Primary Carbon vessels A, B, C, & D | Fine Sand Filters 4A/4B | | |
| August 25, 2021 | | | | Fine Sand Filters 5A/5B | | |
| August 26, 2021 | 25 Micron Pleated | | | | | |
| August 27, 2021 | | | | | | |
| August 30, 2021 | 25 Micron Regular | 10 Micron Regular | Primary Carbon vessels A, B, C, & D | | | |
| August 31, 2021 | | | | Coarse Sand Filters 1A/1B | | |
| September 2, 2021 | | | Primary Carbon vessels A, B, C, & D | Coarse Sand Filters 2A/2B | | |
| September 3, 2021 | 25 Micron Pleated | | | | | |

| 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 |
|--------------------|---|---|--|------------------------------|------------------|-----------------------|
| September 7, 2021 | | 10 Micron Pleated | Secondary Carbon vessels A, B, C, & D | | | |
| September 8, 2021 | | | | Fine Sand Filters 3A/3B | | |
| September 9, 2021 | | | Primary Carbon vessels A, B, C, & D | Fine Sand Filters 4A/4B | | |
| September 10, 2021 | 25 Micron Pleated | | | | | |
| September 13, 2021 | | 10 Micron Pleated | | | | |
| September 14, 2021 | | | | Fine Sand Filters 5A/5B | | |
| September 15, 2021 | 25 Micron Regular | 10 Micron Regular | Primary Carbon vessels A, B, C, & D | | | |
| September 16, 2021 | | | | Coarse Sand Filters 1A/1B | | |
| September 17, 2021 | 25 Micron Pleated | | | | | |
| September 20, 2021 | 25 Micron Regular | 10 Micron Pleated | | Coarse Sand Filters 2A/2B | | |
| September 21, 2021 | 25 Micron Regular | | | | | |
| September 22, 2021 | | 10 Micron Regular | Primary Carbon vessels A, B, C, & D | | | |
| September 23, 2021 | | 10 Micron Regular | Secondary Carbon vessels A, B, C, & D | | | |
| September 24, 2021 | 25 Micron Pleated | | | | | |
| September 27, 2021 | | 10 Micron Pleated | Primary Carbon vessels A, B, C, & D | | | |
| September 28, 2021 | | | | Fine Sand Filters 3A/3B | | |
| September 30, 2021 | | | Primary Carbon vessels A, B, C, & D | | | |
| | | | | | | |
| | | | | | | |





July 28, 2021

Re: Stewart ANG July 2021 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 July 11, 2021.

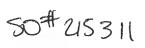
Our profile with Covanta required that the waste be manifested from Onion Equipment, therefore you will find the associated manifests and disposal certificates from OEC and the associated manifests from SANG.

Thank you,

Eric Patterson

50#215312

| | | | GENERATO | R SECTION | | | | |
|---|--|--|---|--|--|---|------------------------------|--|
| Non-Hazardous Waste Manifest | Generator ID Number | | | Waste Profile Number 5001074 | | Waste Tracking (Manifes | t) Number | |
| Customer Billing Name and Mailing Onion Equipment Compan 5705 W 73rd Street - India | ny Inapolis, IN 46278 | | | Generator's Site Address Onion Equipment Company 5705 W 73rd Street, Indiana Generator's Phone: | | | | |
| Customer Billing Phone: (317) 6 | 94-7576 | | | Generalo | , | US EPA ID Number | | |
| Transporter 1 Company Name Onion Equipment Company | , | | | | | OO EI AID Nomber | | |
| Transporter 2 Company Name | | | | | | US EPA ID Number | | |
| Designated Facility Name and Site A Covanta Environmental So 2315 S Holt Road- Indiana | lutions | | | | | US EPA ID Number | | |
| Facility's Phone: (317) 559-569 | 94 | | | | | | | |
| Waste Shipping Name and Description Containers Waste Shipping Name and Description Total Quantity Unit Wt / Voi. Disposal Me | | | | | | | | |
| ¹ non RCRA Spent Irrigati | ion Mix: Non DOT Re | gulated | No. 6 | 1 CYD BAG | 19,000 | LB | Fuel | |
| | | | | | 10,700 | | | |
| 2 | | | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| Special Handling Instructions and A Profile 5001074; Consolida | dditional Information ted load from 21-04A | (line 1; 1 SS | s), 21-11A (line 1; 4 s | SS, line 2; 1 SS) | | 24 Hour Emergency Res | ponse Phone | |
| | | | | | | Emergency Response G | uide Number | |
| GENERATOR'S / OFFEROR'S CERTI materials are properly classified, de- | FICATION: I hereby certify the scribed, packaged, marked a | at the above-des and labeled, and a | cribed materials are non-ha are in proper condition for to | zardous wastes as defined ransportation according to | i by 40 CFR 261 or any appli the applicable regulations o | cable state law. Further, th of the Department of Transp | at the above named ortation. | |
| Generator's Offeror's Printed / Type | d Name | | Signature | | Month | Day | Year | |
| Eric Patterson | | | ahr | | July | 22 2021 | | |
| | 1 10 | | TRANSPORT | ER SECTION | | | | |
| Transporter's Acknowledgement of | Receipt of Materials | | | | Manager and the second | 76 S | | |
| Transporter 1 Printed / Typed Name Steve McPhearson | | | Signature Mal | | Month July | Day 22 | Year 2021 | |
| Transporter 2 Printed / Typed Name | ÷ | | Signature | | Month | Day | Year | |
| | | | DESIGNATED FA | CILITY SECTION | | | | |
| Discrepancy | | | | | | | | |
| Discrepancy Indication Space | | Q Quantity | 🖸 Туре | 🔾 Residue | ☐ Partial Rejection | ☐ Full Rejection | | |
| Alternate Facility (or Generator) | | | US EPA ID Number | | | | | |
| Facility's Phone: | | | | | | | | |
| Signature of Alternate Facility (or Ge | enerator) | | | | Month | Day | Year | |
| Designated Facility Owner or Opera | ator: Certification of Receipt | of materials cover | ed by the manifest except a | s noted in Discrepancy sec | ction | | | |
| Printed / Typed Mane | Long | | Signature C | ~ | Month 7 | Day 22 | Year 2 (| |



| | | GENERATO | R SECTION | | | | |
|---|---|---|--|--|---|------------------------------|--|
| Non-Hazardous Waste Manifest Generator ID Nur | nber | | Waste Profile Number 5001074 | | Waste Tracking (Manifest) Number PO-00340-11 | | |
| Customer Billing Name and Mailing Onion Equipment Company 5705 W 73rd Street - Indianapolis, IN 46 | 278 | | Generator's Site Address Onion Equipment Company 5705 W 73rd Street, Indiana | | | | |
| Customer Billing Phone: (317) 694-7576 | | | Génerator! | s Phone | | | |
| Transporter 1 Company Name Onion Equipment Company | | | | | US EPA ID Number | | |
| Transporter 2 Company Name | | | 16 | | US EPA ID Number | | |
| Designated Facility Name and Site Address Covanta Environmental Solutions 2315 S Holt Road- Indianapolis, IN 4624 | US EPA ID Number | | | | | | |
| Facility's Phone: (317) 559-5694 | | | | T | | | |
| Waste Shipping Name and Descrip | tion | Cont | ainers | Total Quantity | Unit Wt / Voi. | Disposal Method | |
| 1 PODE Or and Infrastrum Minus Name P | OT Degulated | No. | 1 CYD BAG | 19-000 | LB | Fuel | |
| non RCRA Spent Irrigation Mix; Non D | O1 Regulated | 8 18 | I CTD BAG | 13,600 | LD | T doi | |
| 3 | - 3 | | | | | | |
| 4 | | | | | | | |
| Special Handling Instructions and Additional Information Profile 5001074: Consolidated load from 2 | n 21-11B(line 1; 1 SS, | line 2; 2 SS), 21-1 | IA (line 2; 3 SS), 21 | -11C (line 1; 3SS | 24 Hour Emergency Res | ponse Phone | |
| line 2; 1 SS) | | | | | Emergency Response G | uide Number | |
| GENERATOR'S OFFEROR'S CERTIFICATION: I hereby materials are properly classified, described, packaged, | certify that the above-des marked and labeled, and a | cribed materials are non-h are in proper condition for | azardous wastes as define transportation according to | d by 40 CFR 261 or any app the applicable regulations | licable state law. Further, th of the Department of Transp | at the above named ortation. | |
| Generator's Offeror's Printed / Typed Name | 1 | Signature | | Month | Day | Year | |
| Eric Patterson | | aur | | July | 22 | 2021 | |
| | | TRANSPORT | ER SECTION | | | | |
| Transporter's Acknowledgement of Receipt of Material | s | , | | | | | |
| Transporter 1 Printed / Typed Name Steve McPhearson | 3 | Signature M & | 22 <u> </u> | Month July | Day 22 | Year 2021 | |
| Trensporter 2 Printed / Typed Name | 1 | Signature | | Month | Day | Year | |
| | | DESIGNATED FA | ACILITY SECTION | | | | |
| Discrepancy | | | + | | | | |
| Discrepancy Indication Space | © Quantity | I Type | ☐ Residue | Partial Rejection | ☐ Full Rejection | | |
| Alternate Facility (or Generator) | | | | | US EPA ID Number | | |
| Facility's Phone: | | | | | 1- | | |
| Signature of Alternale Facility (or Generator) | | | | Month | Day | Yeal | |
| Designated Facility Owner or Operator: Certification of | Receipt of materials cover | ed by the manifest except | as noted in Discrepancy s | ection | | 1 | |
| Print Typed Name | | Signatur | B. | Month 7 | Day 22 | Year (| |

| | | n - 1 | GENERATO | R SECTION | | | | | | |
|---|----------------------------------|--|--|--|---|--|------------------------------|--|--|--|
| Non-Hazardous Waste Manifest | Generator ID Number | | W.s. | Waste Profile Number 5001074 | re for | Waste Tracking (Manifes | | | | |
| Customer Billing Name and Mailing Onion Equipment Compan 5705 W 73rd Street - India Customer Billing Phone: (317) 6 | y napolis, IN 46278 | | | Generator's Site Addres Onion Equipment (5705 W 73rd Street Generator' | Company et, Indiana | | | | | |
| Transporter 1 Company Name | | | | | | | | | | |
| Onion Equipment Company | | | | | LICEBA ID Niverban | | | | | |
| Transporter 2 Company Name US EPA ID Number | | | | | | | | | | |
| Designated Facility Name and Site Address Covanta Environmental Solutions 2315 S Holt Road- Indianapolis, IN 46241 | | | | | | | | | | |
| Facility's Phone: (317) 559-5694 | | | | | | | | | | |
| Waste Shipping | Name and Description | | | einers | Total Quantity | Unit Wt / Vol. | Disposal Method | | | |
| 1 non RCRA Spent Irrigati | on Mix; Non DOT Re | gulated | No. | 1 CYD BAG | 13,000 | LB | Fuel | | | |
| 2 | | | | | 17,000 | | | | | |
| | | | | | | | | | | |
| 3 | | | | | | | | | | |
| 4 | | | | | | | | | | |
| Special Handling Instructions and Ar Profile 5001074; Consolida | | (line 1; 10 S | S) | | | 24 Hour Emergency Res | oonse Phone | | | |
| SO#215 | 310 | | | | | Emergency Response Gu | iide Number | | | |
| GENERATOR'S / OFFEROR'S CERTI materials are properly classified, de- | FICATION: I hereby certify th | at the above-des and labeled, and a | cribed materials are non-ha are in proper condition for t | zardous wastes as defined ansportation according to | by 40 CFR 261 or any appli the applicable regulations of | icable state law. Further, the fitness of Transp | at the above named ortation. | | | |
| Generator's Offeror's Printed / Type | d Name | | Signature | | Month | Day | Year | | | |
| Eric Patterson | | | cm | | July | 22 | 2021 | | | |
| | | | TRANSPORTI | ER SECTION | | | 是一般用过程描述 | | | |
| Transporter's Acknowledgement of | Receipt of Materials | | - // | 0 0 | 1 | | Tw. | | | |
| Transporter 1 Printed / Typed Name Steve McPhearson | | | Signature AM # | //_ | Month July | Day 22 | Year 2021 | | | |
| Transporter 2 Printed / Typed Name | | | Signature | | Month | Day | Year | | | |
| | | | DESIGNATED FA | CILITY SECTION | | | p-ore | | | |
| Discrepancy | | | | | | | | | | |
| Discrepancy Indication Space | | | | | | | | | | |
| Alternate Facility (or Generator) US EPA ID Number | | | | | | | | | | |
| Facility's Phone: | | | | | | | | | | |
| Signature of Alternate Facility (or Ge | rherator) | | | | Month | Day | Year | | | |
| Designated Facility Owner or Opera | tor: Certification of Receipt of | of materials cover | ed by the manifest except a | s noted in Discrepancy se | ction | | | | | |
| Printed Type Hame | | | Sign | | Month 7 | Day 22 | Year A | | | |



Generator

Onion Equipment Company LLC 5705 W 73rd Street Indianapolis Indiana 46278

Shipping Document # PO-00340-10

SO #: Sales Order #SO215312

Service Date: 7/22/2021

| Line # | Profile ID | Waste | Cont. No. | Container Type | Total Quantity | Unit Wt./Vol. | Management | Disposal Site |
|--------|------------|---|-----------|---|----------------|---------------|-----------------------|--|
| | | Description | | | | | Method | |
| 1 | 5001074 | Spent Irrigation Mix Treatment Material | 6 | BA - Burlap, cloth, paper or plastic bags | 10,200 | Pounds | Energy-From- Waste | CES - Indianapolis 2515 Holt Rd, Indianapolis, IN |



Generator

Onion Equipment Company LLC 5705 W 73rd Street Indianapolis Indiana 46278

Shipping Document # PO-00340-11

SO #: Sales Order #SO215311

Service Date: 7/22/2021

| Line # | Profile ID | Waste | Cont. No. | Container Type | Total Quantity | Unit Wt./Vol. | Management | Disposal Site |
|--------|------------|---|-----------|---|----------------|---------------|-----------------------|--|
| | | Description | | | | | Method | |
| 1 | 5001074 | Spent Irrigation Mix Treatment Material | 8 | BA - Burlap, cloth, paper or plastic bags | 13,600 | Pounds | Energy-From- Waste | CES - Indianapolis 2515 Holt Rd, Indianapolis, IN |



Generator

Onion Equipment Company LLC 5705 W 73rd Street Indianapolis Indiana 46278

Shipping Document # PO-00340-12

SO #: Sales Order #SO215310

Service Date: 7/22/2021

| Line # | Profile ID | Waste | Cont. No. | Container Type | Total Quantity | Unit Wt./Vol. | Management | Disposal Site |
|--------|------------|---|-----------|---|----------------|---------------|-----------------------|--|
| | | Description | | | | | Method | |
| 1 | 5001074 | Spent Irrigation Mix Treatment Material | 10 | BA - Burlap, cloth, paper or plastic bags | 17,000 | Pounds | Energy-From- Waste | CES - Indianapolis 2515 Holt Rd, Indianapolis, IN |



Generator

Onion Equipment Company LLC 5705 W 73rd Street Indianapolis Indiana 46278

Shipping Document # PO-00340-13

SO #: Sales Order #SO215487

Service Date: 7/23/2021

| Line # | Profile ID | Waste | Cont. No. | Container Type | Total Quantity | Unit Wt./Vol. | Management | Disposal Site |
|--------|------------|---|-----------|---|----------------|---------------|-----------------------|--|
| | | Description | | | | | Method | |
| 1 | 5001074 | Spent Irrigation Mix Treatment Material | 10 | BA - Burlap, cloth, paper or plastic bags | 17,000 | Pounds | Energy-From- Waste | CES - Indianapolis 2515 Holt Rd, Indianapolis, IN |

50# 215487

| | | | GENERATO | R SECTION | | | | |
|---|---|---------------------------------------|---|--|--|---|------------------------------|--|
| Non-Hazerdous Waste Manifest | Generator ID Number | | | Waste Profile Number 5001074 | | Waste Tracking (Manifest) Number PO-00340-13 | | |
| Customer Billing Name and Mailing Onion Equipment Compan 5705 W 73rd Street - India | iy | | | Generator's Site Address Onion Equipment Company 5705 W 73rd Street, Indiana | | | | |
| Customer Billing Phone: (317) 6 | 94-7576 | | | Generator! | s Phone: | | | |
| Transporter 1 Company Name Onion Equipment Company | 1 | | | | | US EPA ID Number | | |
| Transporter 2 Company Name | | | | | | US EPA ID Number | | |
| Designated Facility Name and Site Address Covanta Environmental Solutions 2315 S Holt Road- Indianapolis, IN 46241 | | | | | | | | |
| Facility's Phone: (317) 559-569 | 94 | | | | | | r | |
| Waste Shipping | Name and Description | | Cont | ainers | Total Quantity | Unit Wt / Vol. | Disposal Method | |
| reaste onlyang | , manie uno sesenpuon | | No. | Type | | | | |
| non RCRA Spent Irrigati | ion Mix; Non DOT Re | gulated | 10 | 1 CYD BAG | 13,000 | LB | Fuel | |
| 2 | | f | | | | | | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| Special Handling Instructions and A Profile 5001074; Consolida | dditional Information | (line 1; 2 SS) |), 21-11B (line 2; 2 S | SS, line 3, 3 SS), 21- | -11E (line 1; 3 SS) | 24 Hour Emergency Res | oonse Phone | |
| | ė | | | | | Emergency Response Gu | ulde Number | |
| GENERATOR'S / OFFEROR'S CERTI materials are properly classified, de. | IFICATION: I hereby certify th scribed, packaged, marked a | at the above-des nd labeled, and a | cribed materials are non-hare in proper condition for t | nzardous wastes as defined ransportation according to | d by 40 CFR 261 or any appli the applicable regulations o | cable state law. Further, the f the Department of Transp | at the above named ortation. | |
| Generator's Offeror's Printed / Type | ed Name | | Signature | | Month | Day | Year | |
| Eric Patterson | į | | an | | July | 22 2021 | | |
| | | | TRANSPORT | ER SECTION | | | | |
| Transporter's Acknowledgement of | Receipt of Materials | | | | | , | | |
| Transporter 1 Printed / Typed Name Steve McPhearson | | | Signiture | Ph | Month July | Day 22 | Year 2021 | |
| Transporter 2 Printed / Typed Name | 2 | | Signature | | Month | Day | Year | |
| | | | DESIGNATED FA | CILITY SECTION | | 能投資的 | | |
| Discrepancy | | | | | | | | |
| Discrepancy Indication Space | | ☐ Quantity | ☐ Type | Q Residue | ☐ Partial Rejection | ☐ Full Rejection | | |
| Alternate Facility (or Generator) | , | | | | | US EPA ID Number | | |
| Facility's Phone: | | | | | | | | |
| Signature of Alternate Facility (or Go | enerator) | | | | Month | Day | Year | |
| Designated Facility Owner or Opera | ator: Certification of Receipt o | f materials cover | ed by the manifest except | as noted in Discrepancy se | ection | | | |
| Printed / Typed Name | Ble | | Signature | R. | Month 7 | Day 23 | Year Z / | |

50#215464

| | | | GENERATO | R SECTION | | | |
|--|--|------------------------------------|--|--|---|--|----------------------------------|
| Non-Hazardous Waste Manifest | Generator ID Number | | | Waste Profile Number 5001074 | | Waste Tracking (Manife | est) Number |
| Customer Billing, Name and Mailin Onion Equipment Compar 5705 W 73rd Street - India Customer Billing Phone: (317) 6 | ny Inapolis, IN 46278 | | | Generator's Site Addre Onion Equipment 5705 W 73rd Stre | Company et, Indiana | | |
| Transporter 1 Company Name | 84-7370 | | | 1 | | US EPA ID Number | |
| Onion Equipment Company | | | | | | | |
| Transporter 2 Company Name | | | | | | US EPA ID Number | |
| Designated Facility Name and Site Covanta Environmental Sc 2315 S Holt Road-Indiana | olutions polis, IN 46241 | | | | | US EPA ID Number | |
| Facility's Phone: (317) 559-56 | 94 | | - | | 1 | | Tin |
| Waste Shippin | g Name and Description | | No. | tainers Type | Total Quantity. | Unit Wt / Voi. | Disposal Method |
| 1 non RCRA Spent Irrigat | ion Mix; Non DOT Re | gulated | 8 | 1 CYD BAG | 13,000 | LB | Fuel |
| 3 | | | | | 13000 | | |
| 3 | - | | | | | | |
| 4 | | | | | | | |
| Special Handling Instructions and A Profile 5001074; Consolida | | (line 1; 6 S | 5) | 1 | 13 | 24 Hour Emergency Re | ssportse Phone |
| | 4 | | | | | Emergency Response | Guide Number |
| GENERATOR'S / OFFEROR'S CERTI materials are properly classified, de | FICATION: I hereby certify th scribed, packaged, marked a | at the above-de nd labeled, and | scribed materials are non-h are in proper condition for | azardous wastes as define transportation according to | d by 40 CFR 261 or any app the applicable regulations | olicable state law. Further, to of the Department of Trans | that the above named sportation. |
| Generator's Offeror's Printed / Type | d Name | | Signature | | Month | Day | Year |
| Eric Patterson | | | ann | The service was been as a service with the service was a s | July | 22 | 2021 |
| | | | TRANSPORT | ER SECTION | | | |
| Transporter's Acknowledgement of | Receipt of Materials | | , , , , , , , , , , , , , , , , , , , | | | | |
| Transporter 1 Printed / Typed Name Steve McPhearson | | | Signature | | Month July | Day 22 | Year 2021 |
| Transporter 2 Printed / Typed Name | | | Signature | | Month | Day | Year |
| | 然。是心思以 | | DESIGNATED FA | CILITY SECTION | | A CANADA | |
| Discrepancy | AND THE PARTY OF T | THE PARTY OF | Make the second second | | | | |
| Discrepancy Indication Space | | □ Quantity | □ Type | □ Residue | ☐ Partial Rejection | G Full Rejection | |
| Alternate Facility (or Generator) | | | 1 | 1 | | US EPA ID Number | |
| ality s Phone: | , | | | | | | |
| Signature of Alternate Facility (or Ga | nerator) | | | | Month | Day | Year |
| Designated Facility Owner or Operat | or: Certification of Receipt o | materials cover | ed by the manifest except a | es noted in Discrepance se | ction | | |
| Printen , Typed Nam | Trent | an | Signature | ~ | Month / | Day 23 | Year |



Generator

Onion Equipment Company LLC 5705 W 73rd Street Indianapolis Indiana 46278

Shipping Document # PO-00340-14

SO #: Sales Order #SO215464

Service Date: 7/23/2021

| Line # | Profile ID | Waste | Cont. No. | Container Type | Total Quantity | Unit Wt./Vol. | Management | Disposal Site |
|--------|------------|---|-----------|---|----------------|---------------|-----------------------|--|
| | | Description | | | | | Method | |
| 1 | 5001074 | Spent Irrigation Mix Treatment Material | 8 | BA - Burlap, cloth, paper or plastic bags | 13,600 | Pounds | Energy-From- Waste | CES - Indianapolis 2515 Holt Rd, Indianapolis, IN |

| | | GENERATO | R SECTION | | | | | | |
|---|--|---|--|---|--------------------------------|---|--|--|--|
| Non-Hazardous Waste Manifest | Generator ID Number | | Waste Profile Number 5001074 | | Waste Tracking (Manifest | i) Number | | | |
| Customer Billing Name and Mailin Onion Equipment Compar 5705 W 73rd Street - India Customer Billing Phone: (317) 6 | ny anapolis, IN 46278 | | Generator's Site Addres Stewart ANG Base 1 Macquire Way, N | e Newburgh, NY 12550 | | | | | |
| Transporter 1 Company Name | | | I. | W- 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | US EPA ID Number | *************************************** | | | |
| Onion Equipment Company Transporter 2 Company Name | (| | | | US EPA ID Number | | | | |
| Designated Facility Name and Site Address Covanta Environmental Solutions 2330 South Harding Street - Indianapolis, IN 46221 Facility's Phone: (317) 559-5694 | | | | | | | | | |
| (517) 553-56. | | Conta | ainers | Promise of the second | | | | | |
| Waste Shipping | g Name and Description | No. | Туре | Total Quantity | Unit Wt / Voi. | Disposal Method | | | |
| non RCRA Spent Irrigati | ion Mix; Non DOT Regulated | 4 | 1 CYD BAG | 10,000 | LB | Fuel | | | |
| ² non RCRA Spent Irrigat | ion Mix; Non DOT Regulated | 4 | 1 CYD BAG | 2,000 | LB | Fuel | | | |
| 3 | | | | | | | | | |
| 4 | | | , | | | | | | |
| Special Handling Instructions and A Profile 5001074; Item 1 - P | odditional Information refiltration Media; Item 2 - Prefiltra | canation Bags | solidated 1 nic 2 (155 | 1/1/2 / (d/) 1) 120-00340- 00340-11 | 24 Hour Emergency Resp | oonse Phone | | | |
| Manifest number changed | from PO-00340-10 | line 2 | (355) PO- | 00340-11 | Emergency Response Gu | iide Number | | | |
| GENERATOR'S / OFFEROR'S CERTI materials are properly classified, de | IFICATION: I hereby certify that the above-desectibed, packaged, marked and labeled, and | scribed materials are non-ha | zardous wastes as defined | by 40 CFR 261 or any appli | icable state law. Further, the | at the above named ortation. | | | |
| Generator's Offeror's Printed / Type Michael Oettinger | ed Name | Signature OETTINGER.MICH AEL.J.1470725288 | Digitally signed by OETTINGER.MICHAEL.J.1470725 288 Date: 2021.07.07 10:59:16 -04'00' | Month 5 July | Day 7 | Year 2021 | | | |
| | | TRANSPORTE | ER SECTION | | | | | | |
| Transporter's Acknowledgement of | Receipt of Materials | | | - | - | | | | |
| Transporter 1 Printed / Typed Name Steve McPhearson | | Signature | 7 | Month July | Day 7 | Year 2021 | | | |
| Transporter 2 Printed / Typed Name | 3 | Signature | | Month | Day | Year | | | |
| | | DESIGNATED FAC | CILITY SECTION | | | | | | |
| Discrepancy | | | | T | T | | | | |
| Discrepancy Indication Space | Quantity | □ Type | ☐ Residue | ☐ Partial Rejection | ☐ Full Rejection | | | | |
| Alternate Facility (or Generator) Facility's Phone: | Onion Equipment and and vestigated on | Cover Man | Sert \ | | US EPA ID Number | | | | |
| Signature of Alternate Facility (or Go | | | | Month | Day | Year | | | |
| Designated Facility Owner or Opera | ator: Certification of Receipt of materials cover | red by the manifest except a | s noted in Discrepancy sec | ction | L | | | | |
| Printed / Typed Name Evic A Herra | | Signatur | | Month 7 | Day 2.2 | Year 2.1 | | | |

| | | | GENERATOR | R SECTION | | | | | |
|---|---|---------------------|---|--|-----------------------------|-------------------------------|---|--|--|
| Non-Hazardous Waste Manifest | Generator ID Number | | | Waste Profile Number 5001074 | | Waste Tracking (Manifest |) Number | | |
| Customer Billing Name and Mailing Onion Equipment Compan 5705 W 73rd Street - India Customer Billing Phone: (317) 6 | ny anapolis, IN 46278 | | | Generator's Site Addres Stewart ANG Base 1 Macquire Way, N | e Newburgh, NY 12550 | Ĭ | | | |
| Transporter 1 Company Name US EPA ID Number Onion Equipment Company | | | | | | | | | |
| Transporter 2 Company Name US EPA ID Number | | | | | | | | | |
| Designated Facility Name and Site Address Covanta Environmental Solutions 2330 South Harding Street - Indianapolis, IN 46221 Facility's Phone: (317) 559-5694 | | | | | | | | | |
| (317) 339-308 | 34 | | Conti | ainers | T | | | | |
| Waste Shipping Name and Description No. Type Total Quantity Unit Wt / Voi. Disposal Methods No. Type | | | | | | | | | |
| non RCRA Spent Irrigati | ion Mix; Non DOT Re | gulated | 1 | 1 CYD BAG | 2,500 | LB | Fuel | | |
| ² non RCRA Spent Irrigati | ion Mix; Non DOT Re | gulated | 2 | 1 CYD BAG | 4,000 | LB | Fuel | | |
| 3 non RCRA Spent Irrigati | ion Mix; Non DOT Re | gulated | 3 | 1 CYD BAG | 1,500 | LB | Fuel | | |
| 4 | | | | | | | *************************************** | | |
| Special Handling Instructions and A Profile 5001074; Item 1 - Pr Manifest number changed to | refiltration Media, Iter | | | 37.6 | h Dn-20262-1 | 24 Hour Emergency Resp | | | |
| | | | Consol Ime | 2,3 to Pa | ho Po-00340-11 -00340-13 | Emergency Response Gu | ide Number | | |
| GENERATOR'S / OFFEROR'S CERTI materials are properly classified, de- | FICATION: I hereby certify the scribed, packaged, marked a | at the above-des | cribed materials are non-ha | zardous wastes as defined | by 40 CFR 261 or any applic | cable state law. Further, the | at the above named ortation. | | |
| Generator's Offeror's Printed / Type Michael Oettinger | d Name | | Signature OETTINGER.MICH AEL.J.1470725288 | Digitally signed by OETTINGER.MICHAEL.J.1470725 288 Date: 2021.07.09 13:00:36 -04'00' | Month July | Day 9 | Year 2021 | | |
| | | | TRANSPORTE | R SECTION | | | | | |
| Transporter's Acknowledgement of | Receipt of Materials | | | | | | | | |
| Transporter 1 Printed / Typed Name Steve McPhearson | | | Signature | 6 | Month July | Day 9 | Year 2021 | | |
| Transporter 2 Printed / Typed Name | ķs. | | Signature | | Month | Day | Year | | |
| | | | DESIGNATED FAC | CILITY SECTION | | | | | |
| Discrepancy | | | | | | | | | |
| Discrepancy Indication Space | | Quantity | 🗅 Туре | ☐ Residue | ☐ Partial Rejection | ☐ Full Rejection | | | |
| Alternate Facility (or Generator) | | | | | | US EPA ID Number | | | |
| Facility's Phone: | | | | | | | | | |
| Signature of Alternate Facility (or Ge | enerator) | | | | Month | Day | Year | | |
| Designated Facility Owner or Opera | itor: Certification of Receipt c | of materials covere | ed by the manifest except a | s noted in Discrepancy sec | ition | | | | |
| Printed / Typed Name Evic Patter | (M | | Signature | | Month 7 | Day 7.2 | Year 21 | | |

| GENERATOR SECTION | | | | | | | |
|---|--|--|---|--|--|-----------------|--|
| Non-Hazardous Waste Manifest Generator ID Number | | | Waste Profile Number 5001074 | | Waste Tracking (Manifest) Number 21-11C | | |
| Customer Billing Name and Mailing Onion Equipment Company 5705 W 73rd Street - Indianap Customer Billing Phone: (317) 694- | Generator's Site Address Stewart ANG Base 1 Maguire Way, Newburgh, NY 12550 Generator's Phone: | | | | | | |
| Transporter 1 Company Name | A. VI. A. I. A. VII. A. VIII. A. VIIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIII. A. VIII | | | | US EPA ID Number | | |
| Onion Equipment Company Transporter 2 Company Name | | | | | US EPA ID Number | | |
| | Marco Company of the | *************************************** | *************************************** | m total and a second and a second as a | | | |
| Designated Facility Name and Site Addr Covanta Environmental Solution 2330 South Harding Street - In | US EPA ID Number | | | | | | |
| Facility's Phone: (317) 559-5694 | | | | | | T | |
| Waste Shipping Nar | me and Description | No. | Total Quantity Type | | Unit Wt / Voi. | Disposal Method | |
| 1 non RCRA Spent Irrigation | Mix; Non DOT Regulated | 3 | 1 CYD BAG | 3,000 | LB | Fuel | |
| ² non RCRA Spent Irrigation | Mix; Non DOT Regulated | 1 | 1 CYD BAG | 4,000 | LB | Fuel | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| Special Handling Instructions and Additional Profile 5001074 Manifest number changed from | 24 Hour Emergency Response Phone | | | | | | |
| Special Handling Instructions and Additional Information Profile 5001074 Manifest number changed from PO-00340-12 PO-00340-11 | | | | | 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 OETTINGER.MICH Digitally signed by OETTINGER.MICH Digitally signed by OETTINGER.MICHAELJ.1470725 AEL.J.1470725288 288 288 288 288 288 288 288 288 28 | | Month | Day | Year | |
| Michael Oettinger | | AEL.J.1470725288 | 288 Date: 2021.07.14 12:26:27 -04'00' | July | 14 | 2021 | |
| 经济 公司,苏治安公司 | | TRANSPORTE | R SECTION | | | | |
| Transporter's Acknowledgement of Reco | eipt of Materials | | \overline{A} | T | <u></u> | | |
| Transporter 1 Printed / Typed Name Steve McPhearson | | Signature | 2/ | Month July | Day 14 | Year 2021 | |
| Transporter 2 Printed / Typed Name | | Signature | | Month | Day | Year | |
| | | DESIGNATED FAC | CILITY SECTION | | | | |
| Discrepancy | | | MILL STATE OF THE | | | | |
| Discrepancy Indication Space | Quantity | 🗅 Туре | ☐ Residue | Partial Rejection | ☐ Full Rejection | | |
| Alternate Facility (or Generator) | ON THE RESERVE THE SECOND SECO | *************************************** | US EPA ID Number | | | | |
| Facility's Phone: | | | | | | | |
| Signature of Alternate Facility (or Generator) | | | 1 | Month | Day | Year | |
| Designated Facility Owner or Operator: 0 | Certification of Receipt of materials covere | ed by the manifest except a | s noted in Discrepancy sec | tion | | | |
| Printed / Typed Name Bric Patterson | | Signatur | | Month 7 | Day 2.2 | Year 21 | |

| GENERATOR SECTION | | | | | | | | |
|--|---|---------------------------------|---|--|--|---|--|--|
| Non-Hazardous Waste Manifest Generator ID Number | | | Waste Profile Number 5001074 | | Waste Tracking (Manifest) Number 21-11C | | | |
| 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 Maguire Way, Newburgh, NY 12550 Generator's Phone: | | | | |
| Transporter 1 Company Name | | | | J | | US EPA ID Number | US EPA ID Number | |
| Onion Equipment Company | <u> </u> | | - Staperon State - Striker | THE RESERVE THE SAME OF THE SA | *************************************** | | | |
| Transporter 2 Company Name | | | | | | US EPA ID Number | | |
| Designated Facility Name and Site Address Covanta Environmental Solutions 2330 South Harding Street - Indianapolis, IN 46221 | | | | | US EPA ID Number | | | |
| Facility's Phone: (317) 559-569 | 94 | | I | | | | T | |
| Waste Shipping | Waste Shipping Name and Description | | No. | einers Type | Total Quantity | Unit Wt / Voi. | Disposal Method | |
| non RCRA Spent Irrigati | ion Mix; Non DOT Regu | lated | 3 | 1 CYD BAG | 3,000 | LB | Fuel | |
| ² non RCRA Spent Irrigati | ion Mix; Non DOT Regu | lated | 1 | 1 CYD BAG | 4,000 | LB | Fuel | |
| 3 | | | | | | | | |
| 4 | | | | | | | | |
| Special Handling Instructions and Ar Profile 5001074 Manifest number changed f | | Con | solidated 1 | luc I and | 2 | 24 Hour Emergency Response Phone | | |
| Special Handling Instructions and Additional Information Profile 5001074 Manifest number changed from PO-00340-12 PO-00340-11 Consolidated Inc. I and 2 PO-00340-11 | | | | | Emergency Response Guide Number | | | |
| GENERATOR'S / OFFEROR'S CERTI materials are properly classified, de- | FICATION: I hereby certify that the scribed, packaged, marked and | ne above-desc labeled, and a | cribed materials are non-ha are in proper condition for tr | zardous wastes as defined ansportation according to t | by 40 CFR 261 or any appli the applicable regulations o | cable state law. Further, that f the Department of Transpa | at the above named ortation. | |
| Generator's Offeror's Printed / Typed Name Michael Oettinger | | | Signature OETTINGER.MICH AEL.J.1470725288 | Digitally signed by OETTINGER.MICHAEL.J.1470725 288 | Month 5 July | Day 14 | Yеаг 2021 | |
| | | | TRANSPORTE | | | | Manual Ma | |
| Transporter's Acknowledgement of Receipt of Materials | | | | | | | | |
| Transporter 1 Printed / Typed Name | | Signetur | 01/ | Month | Day | Year | | |
| Steve McPhearson Transporter 2 Printed / Typed Name | | Signature | V | July | 14 Day | 2021 Year | | |
| The state of the s | | | | | | | 140 | |
| | | B.V. | DESIGNATED FAC | CILITY SECTION | | | | |
| Discrepancy | | *********** | T | T | | | | |
| Discrepancy Indication Space Quantity Type Alternate Facility for Generator) | | | Q Residue | ☐ Partial Rejection | ☐ Full Rejection | | | |
| Alternate Facility (or Generator) Facility's Phone: | | | | | | | | |
| Signature of Alternate Facility (or Generator) | | | | Month | Day | Year | | |
| Designated Facility Owner or Opera | itor: Certification of Receipt of m | aterials covere | ed by the manifest except a | s noted in Discrepancy sec | ction | | | |
| Printed/Typed Name Bric Patterson | | Signatu | | Month 7 | Day 2.2 | Year 21 | | |

| | | GENERATO | R SECTION | | | | |
|---|--|---|---|--|---------------------------------|------------------|--|
| Non-Hazardous Waste Manifest | Generator ID Number | Waste Profile Number 5001074 | | Waste Tracking (Manifest) Number 21-11D | | | |
| Customer Billing Name and Mailing Onion Equipment Compan 5705 W 73rd Street - India | Generator's Site Address Stewart ANG Base 1 Maguire Way, Newburgh, NY 12550 Generator's Phone: | | | | | | |
| Customer Billing Phone: (317) 6 Transporter 1 Company Name | 94-7576 | | | 1 Marco | US EPA ID Number | US EPA ID Number | |
| Onion Equipment Company | | | | | OS EFA IN HUMBS | | |
| Transporter 2 Company Name | | | | | US EPA ID Number | | |
| Designated Facility Name and Site Address Covanta Environmental Solutions 2330 South Harding Street - Indianapolis, IN 46221 | | | | | US EPA ID Number | | |
| Facility's Phone: (317) 559-569 | 94 | T | | T | | · | |
| Waste Shipping | g Name and Description | No. | Type | - Total Quantity | Unit Wt / Vol. | Disposal Method | |
| non RCRA Spent Irrigati | ion Mix; Non DOT Regulated | 12 | 1 CYD BAG | 12,000 | LB | Fuel | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| Special Handling Instructions and Ar Profile 5001074 Carbon | 24 Hour Emergency Response Phone | | | | | | |
| Manifest number changed f | from PO-00340-13 | onsol-line onsol-line | , 2 baça po. | -00340-13 | Emergency Response Guide Number | | |
| | IFICATION: I hereby certify that the above-desc scribed, packaged, marked and labeled, and a | | | | | | |
| Generator's Offeror's Printed / Typed Name Michael Oettinger | | Signature OETTINGER.MICH AEL.J.1470725288 | Oigitally signed by OETTINGER.MICHAEL.J.1470725 288 Date: 2021.07.20 07:51:06 -04'00' | Month July | Day 20 | Year 2021 | |
| | | TRANSPORTE | ER SECTION | | | | |
| Transporter's Acknowledgement of | Receipt of Materials | | | | | | |
| Transporter 1 Printed / Typed Name Zach Patterson | OS STATE OF THE ST | Signatur | 2 | Month July | Day 20 | Year 2021 | |
| Transporter 2 Printed / Typed Name | | Signatury | | Month | Day | Year | |
| | | DESIGNATED FAC | CILITY SECTION | | | | |
| Discrepancy | | SALE STREET | | | | | |
| Discrepancy Indication Space | | | ☐ Residue | ☐ Partial Rejection | ☐ Full Rejection | | |
| Alternate Facility (or Generator) | | | US EPA ID Number | | | | |
| Facility's Phone: | | | AN A | | | | |
| Signature of Alternate Facility (or Generator) | | | | Month | Day | Year | |
| Designated Facility Owner or Opera | otor: Certification of Receipt of materials covere | ed by the manifest except a | s noted in Discrepancy sec | :tion | | | |
| Printed/Typed Name Exic Patterson | | Signature | | Month 7 | Day 22 | Year 2.1 | |

| GENERATOR SECTION | | | | | | | |
|--|---|---------------------------------|---|--|------------------|--|--|
| Non-Hazardous Waste Manifest | POSSOC CONTROL (MATERIAL MATERIAL MATERIA | | | Waste Profile Number 5001074 | | Waste Tracking (Manifest) Number 21-11E | |
| Customer Billing Name and Mailing Onion Equipment Company 5705 W 73rd Street - Indianapolis, IN 46278 Customer Billing Phone: (317) 694-7576 Generator's Phone Street - Indianapolis Generator's Phone Generator | | | | ewburgh, NY 12550 | | | |
| Transporter 1 Company Name | 34.10.10 | ····· | L | | US EPA ID Number | | |
| Onion Equipment Company | · | ntie Station of the Property of | | CALIFORNIA IN THE TAXABLE PROPERTY OF THE PARTY OF THE PA | | | |
| Transporter 2 Company Name | | | | | US EPA ID Number | | |
| Designated Facility Name and Site Address Covanta Environmental Solutions 2330 South Harding Street - Indianapolis, IN 46221 | | | | | US EPA ID Number | | |
| Facility's Phone: (317) 559-569 | 94 | | | 1 | | T | |
| Waste Shipping Name and Description | | No. | Type | Total Quantity | Unit Wt / Voi. | Disposal Method | |
| non RCRA Spent Irrigation Mix; Non DOT Regulated | | 9 | 1 CYD BAG | 15,876 | LB | Fuel | |
| 2 | | | | | | | |
| 3 | | | | | | | |
| 4 | | | | | | | |
| Special Handling Instructions and Additional Information Profile 5001074 Resin Manifest number changed from PO-00340-14 Consolidated line (355) PO-00340-13 Inc (655) PO-00340-14 | | | | | | 24 Hour Emergency Response Phone | |
| Resin Manifest number changed from PO-00340-14 | | | | | | Emergency Response Guide Number | |
| | FICATION: I hereby certify that the above-dess scribed, packaged, marked and labeled, and a | | | | | | |
| Michael Court | | Signature OETTINGER.MICH | Digitally signed by OETTINGER.MICHAEL.J.1470725 288 | Month July | Day 20 | Year 2021 | |
| | | AEL.J.1470725288 | Chen As and income | OLIVE MODES | | 2021 | |
| TRANSPORTER SECTION Transporter's Acknowledgement of Receipt of Materials | | | | | | | |
| Transporter 1 Printed / Typed Name | | Signature) | | Month | Day | Year | |
| Zach Patterson | | 2451 | | July | 20 | 2021 | |
| Transporter 2 Printed / Typed Name | | Signature | | Month | Day | Year | |
| | | DESIGNATED FAC | CILITY SECTION | | | | |
| Discrepancy | | | | | | | |
| Discrepancy Indication Space | © Quantity | 🗇 Туре | ☐ Residue | Partial Rejection | ☐ Full Rejection | | |
| Alternate Facility (or Generator) On con Equipment (red and reship on cover manifest) US EPA ID Number | | | | | | | |
| Facility's Phone: Signature of Alternate Facility (or Ge | enerator) | | | Month | Day | Venu | |
| , wanty to | | | , , , , , , , , , , , , , , , , , , , | Year | | | |
| | itor: Certification of Receipt of materials covere | ed by the manifest except a | s noted in Discrepancy sec | tion | | | |
| Printed / Typed Name Eric Patterson | | Signature | | Month 7 | Day 2.2 | Year 21 | |