

DRAFT FINAL PROJECT REPORT

SITE WIDE PFC SCREENING LEVEL INVESTIGATION FORT DRUM, NEW YORK

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Acronyms and Abbreviation

Aqueous Film-Forming Foams ASL Airfield Sanitary Landfill AST Above Ground Storage Tank

CERCLA Comprehensive Environmental Response, Compensation & Liability Act

COE Corps of Engineers
EPA Environmental Protection Agency

Field Exploration Unit Fire Training Area Health Advisory FEU FTA HA

IRP Installation Restoration Program

LADS Laundry Advanced System

NYSDEC New York State Department of Environmental Conservation

Old Sanitary Landfill
Perfluoroalkyl Substances
Perfluorinated Compounds
Perfluorooctanoic Acid
Perfluorooctyl Sulfonate OSL PFAS PFC PFOA PFOS

POLS Petroleum, Oil, & Lubricants RCRA Resource Conservation and Recovery Act USACE United States Army Corps of Engineers

1.0 Project Description

The United States Army Corps of Engineers (USACE) has been tasked by Ft. Drum to complete a Base-wide assessment of areas potentially impacted by Perfluorinated Compounds (PFCs) and areas of potential exposure risk to end users of water systems. Impact assessment was carried out by conducting interviews of Ft. Drum employees, research of records, and site investigation. Due to the nature of the assessment some sites would be actively investigated and tested once they have been identified during these reporting activities. As such, some results have been provided within this document while others areas will require further investigation.

1.1 Purpose

Perfluorooctanoic acid (PFOA) and perfluorooctyl sulfonate (PFOS) are manmade chemicals in a large family of chemicals called perfluoroalkyl substances (PFASs) (Buck et al. 2011). PFOA has been used in a variety of consumer products and in the production of fluoropolymers, and is generated as a degradation product of other perfluorinated compounds. PFOA and PFOS are very persistent in the environment and the human body; it has been detected in water, wildlife, and humans worldwide.

In May of 2016 the United States Environmental Protection Agency (EPA) issued Health Advisory Levels (HA) for PFOA & PFOS in drinking water. For each of these two compounds a 0.07 μ g/L lifetime HA has been set by the EPA. The reference dose for both PFOA and PFOS are based on similar developmental effects and are numerically identical; when these two chemicals co-occur at the same time and location in a drinking water source, a conservative and health-protective approach that EPA recommends would be to compare the sum of the concentrations ([PFOA] + [PFOS]) to the HA (0.07 μ g/L) (EPA).

New York Department of Environmental Conservation as part of its commitment to safe drinking water in the state filed a Notice of Adoption for amendments to 6 NYCRR Part 597, Hazardous Substances Identification, Release Prohibition, and Release Reporting on March 3, 2017 to include PFOA and PFOS.

With these new regulations Ft. Drum and the Army have taken an active approach in identifying potential contaminations in soil and groundwater around the installation and accessing the level of contamination. In response to these new advisories Ft. Drum was also ordered by the U.S. Army Installation Management Command under Fragmentary Order 01 to Operations Order 16-088: PFC Contaminations Assessment (U) dated August 29,2016 to: (1) assess PFOS and PFOA concentrations in drinking water systems serving Army Soldiers, Families, and Civilians and (2) evaluate current or former restoration sites as well as new sites where past or current use of PFOS/PFOA-containing products may have resulted in a Comprehensive Environmental Response, Compensation & Liability Act (CERCLA) release to the environment. This document outlines the results of this task.

1.2 Site Description

Fort Drum encompasses approximately 168 square miles and is located approximately 10 miles northeast of Watertown, 80 miles north of Syracuse, and 25 miles southeast of the United States and Canadian border. Fort Drum occupies a large portion of northeastern Jefferson County, a portion of western Lewis County, and abuts the southern edge of St. Lawrence County. Identified sites around Ft. Drum to screen for PFCs includes the Fire

Training Area (FTA), the Old Sanitary Landfill (OSL), the Airfield Sanitary Landfill (ASL), the Former Fire House, the Laundry Pad Sites, the Non-Regulated/Non-Public Water Systems, and Drinking Water Wells (Figures 1-1, 1-2, 1-3, & 1-4).

1.2.1 Physiography and Geology

Fort Drum lies within two physiographic areas; the Adirondack Highlands to the northeast, and the Erie-Ontario Lowlands to the southwest. Precambrian high-grade metamorphic rocks are the prominent rock type within the Adirondack Highland area. These consist of gneisses, granites, and marbles. Paleozoic sandstones, dolomitic sandstones, and limestone are the prominent rock types in the Erie-Ontario Lowland area. A thin coverage of glacial deposits is found throughout the area.

1.2.2 Sites of interest

1.2.2.1 Fire Training Area

The Training Pit within the Fire Training Area consisted of an 80 foot diameter concrete basin with a drainage system and underground storage tank. Historically fuel was poured into the pit and ignited, fire fighters would practice extinguishing the fires. One such practice for extinguishing the fires was to employ the use of Aqueous Film-Forming Foams (AFFF) which contained PFCs as a principle compound. Fuels used included waste Petroleum, Oil, & Lubricants (POL) products, POL contaminated materials, JP-4, gasoline and diesel fuels. An investigation conducted in 1990 as part of the Resource Conservation and Recovery Act (RCRA), the Facility Assessment (RFA) did not indicate impacts to the environment from operations POLs or related constituents. PFCs that may have been present in the fire-fighting foam were not identified (and not known) as potential constituents of concern during the 1990 investigation.

"The Fire Training Pit is located along the southern margin of Fort Drum south of Wheeler Sack Army Airfield. This area is underlain by approximately 50 feet of silty sand. These sands are deltaic deposits from the Black River delta, and consist of fine to medium grained sand that is variably silty. Thin veneers of lacustrine clay and silt or till deposits underlie these sands.

The uppermost bedrock units in this area are the limestone formations (from top to bottom, Chaumont, Lowville, and Pamelia Formations) of the Black River Group. The Chaumont Foundation consists of massive gray, finely textured cherty limestone. The middle unit, Lowville Formation, consists of medium gray fossiliferous, thick to thinly bedded limestone with shale partings. The lower unit, Pamelia Formation, consists of dolomite limestone with limestone beds, and grades to dolomitic sandstone near the installation.

Near the Fire Training Pit, the land surface is drained by the Black River, which empties into Lake Ontario. Both surface water and groundwater in the vicinity of the Fire Training Pit discharge into the Black River.

The surficial sand aquifer in the vicinity of the Fire Training Pit is recharged by precipitation. Studies by Reynolds indicate that the underlying bedrock aquifer is hydraulically connected to and recharged by the surficial aquifer in the vicinity of the contaminant area, north-west of the Fire Training Pit, as indicated by similarities in groundwater flow direction and

location of groundwater divides in these two aquifers. Water levels in the surficial water-table aquifer and confined limestone units show that the water table is approximately 50 feet above the potentiometric surface in the fire training pit area." (Radian Corp, 1991)

According to Reynolds, regional groundwater flow in the vicinity of the Fire Training Pit is predominantly east-southeast, toward the Black River, and groundwater occurs approximately 30 feet below ground surface in silty sand deposits (Radian Corp, 1991).

1.2.2.2 Old Sanitary Landfill

"The OSL is located in the southern portion of Fort Drum, north of the intersection of Route 26 (Great Bend Road) and Oneida Avenue. The OSL occupies approximately 40 to 50 acres and is comprised of two major cells identified as OSL Cell 1 and OSL Cell 2. There is an unnamed stream that is located immediately between OSL Cell 1 and OSL Cell 2 which originates as a seep, groundwater discharge, or a combination of the two. Subsequently, the unnamed tributary of Pleasant Creek stream flows into the OSL Creek, which is approximately 2.5 miles long.

Operation of the OSL began in 1940 and continued through 1973. During the period of operation, most of the waste generated on the installation was disposed in the landfill (including, but not limited to materials such as, general refuse, containers with residual pesticides and herbicides, unused ammunition, chlorinated solvents, and industrial wastes). The OSL was formally closed in 1981 following placement of a 20-mil polyvinyl chloride (PVC) membrane cap and soil cover over approximately 38 acres to reduce infiltration and minimize leachate generation." (2016 Basewide Monitoring Report)

1.2.2.3 Airfield Sanitary Landfill

"The ASL is located adjacent to Wheeler Sack Airfield's northeast boundary and approximately 1,000 feet northwest of the Black River. The landfill occupies approximately 37 acres and is covered with vegetation. The topography of the landfill and the surrounding area is nearly flat.

The ASL began operating in 1973 after closure of the OSL. Solid wastes generated from various locations were placed into trenches in the sandy soil until the landfill was closed in 1987. The types of wastes placed in the ASL included municipal solid waste, paint wastes, solvent containers, triple-rinsed pesticide containers, and petroleum, oil, and lubricant (POL) saturated wastes. The trenches were oriented northwest to southeast approximately 300 feet wide with a maximum length of 1,900 feet. The trenches were approximately 20 feet deep and were unlined. They were covered with native sandy soil and some areas were grassed. The northeast 14 acres of the site (referred to as "Phase I") were covered with an impermeable 20-millimeter PVC liner, 6 inches of soil cover, and re-vegetated. Solid waste was also disposed of on the 23 acres southwest of, and adjacent to, the Phase I area until October 1987 (referred to as "Phase II"). In 1990, Phase II was closed by installing a 40-millimeiter PVC cover, 18 PVC gas vents, 12 inches of soil cover, and vegetation." (2016 Basewide Monitoring Report)

1.2.2.4 Laundry Pads

The Shower/Laundry Pads are located in the training area north-northeast of the Airfield and south-southwest of the Main Impact Area. The downrange area is heavily wooded and has remote access from the rest of the installation.

A Laundry Pad is a simple structure that is nothing more than a rimmed square concrete slab with one or two sumps for waste water to drain out into a small leachate field. These pads were temporary working areas for the LADS. A single LADS can launder 500 sets of laundry a day. To support a Brigade Combat Team during 14-day training exercise two LADS could be utilized, allowing soldiers to receive clean laundry every four days. The LADS is a highly efficient system, recycling more than 98% of its 1,300 gallon tank with every cycle, but by the end of the exercise the LADS will produce nearly 1,500 gallons of wastewater, assuming no clothing would be laundered the first three or last three days of the exercise. This wastewater contained detergents, dirt, and oils, as well as a Teflon-based additive to restore water repellency to Gore-Tex material.

1.2.2.5 Former Fire House

Former building 2061, once located on the grounds at Wheeler Sacks Army Airfield just inside the main airfield gate off of now Munns Corner Road, the Former Fire House was where the Ft. Drum Fire Department was stationed by Wheeler Sack Airfield prior to moving its current location at FOB Road by the Airfield Base Operations building. The Fire House was part of the emergency response system at the airfield. The fire department may have used and stored AFFF for firefighting purposes at this location.

1.2.2.6 Non-Regulated/Non-Public Water Systems

The Non-Regulated/Non-Public Water Systems consist of a group of non-potable water supply wells used for field showers, sinks, and sanitary systems than service fewer than 25 people at any well location. All wells with the exception of one are located in the Training Area which lies to the north-northeast of the airfield.

1.2.2.7 Water Supply Wells

The Water Supply Wells are a group of wells installed for potable water consumption and are all located near the airfield side on Ft. Drum. The well field consists of a number of older wells (Wells 2 through 12) and newer wells, termed New Well Field (Wells 13 through 18, though 13 is non-productive). Currently none of the older wells are actively used because of operational issues or the presence of contamination. In some instances, the source of the contamination may not be well understood and is being evaluated under a separate scope titled, Fort Drum Well Field Evaluation Scope of Work, dated February 2017. Wells 7, 11, and 12 are impacted by PFCs presumably from the nearby FTA. Of the older wells only 2,3,7,9, 10, 11, and 12 have operating pumps to allow for sampling or operation. As of this report the New Well Field is in a phased start-up plan and not all wells are currently active.

1.2.2.8 Fire Suppression Systems

Fire suppression systems in this assessment included any devices which have or had the means of employing the use of AFFF, including stationary suppression systems located in Hangers at Wheeler Sack Airfield (2072, 2049,

2050, 2060, 2070, 2074, 19710, 20470, & 20471), Building 19855 and non-stationary systems including five crash trucks and one DES Trailer.

2.0 Methods

As part of the Screening Level Investigation a base-wide assessment was conducted in order to better ascertain a clear image of areas that could have been impacted by PFC contamination and to what level of concern. Data collection for the assessment was completed by conducting research into sites with higher known potential risk to exposure, targeting known groundwater supply resources, and by completing interviews with personnel who would have knowledge of the use of chemical uses around the installation such as AFFF. Sites that could be rapidly accessed for field investigation and sampling were completed during this assessment in order to gain a clear picture of total overall actual risk sooner and to meet Army requirements. Sampling for PFCs followed USACE-Baltimore District Standard Operating Procedure for Sampling of PFCs.

3.0 Site Assessments

The base wide site assessment was conducted by the following methods in order to determine the risk and need to investigate for PFCs; review of current and former IRP sites, internal interviews, research into the use of AFFF, and following authority under Fragmentary Order 01 to Operations Order 16-088.

A review of existing Installation Restoration Program (IRP) sites was conducted to determine potential for PFC contamination based off of historical knowledge of the sites and current reporting data. Of these sites, three were selected for investigation; the OSL, ASL, and FTA. The OSL and ASL were selected for investigation because of the potential for refuse containing PFCs. These sites were also a reasonable targets to get data quickly as they are currently part of a Long Term Monitoring Program (LTM) under the IRP and have monitoring points already in place. The FTA is a closed IRP site, but at the time of closure PFCs were not a chemical of concern (CoC). Due to the known use of AFFF in the area for training purposes and PFCs being detected from nearby production wells (Well 7, 11, and 12) it was determined that additional sampling for PFCs was needed. It was decided that both soil and groundwater samples would be collected around the FTA pit area. A preliminary site assessment was conducted at the FTA documented in Field Summary Report - Old Fire Training Pit to determine the existence of PFC contamination in groundwater around the Fire Training Pit Area due to the use of AFFF as a result of fire training purposes.

At the request of the New York State Department of Environmental Conservation (NYSDEC), a Class B Fire Suppression Foam Usage Survey was completed. The purpose of this survey and associated interviews was to determine the period of use, storage practices and locations, brands, and instances of use to best determine areas subjected to PFCs through the use of AFFF. Interviews were conducted and determined that there were no onsite spills or discharge of AFFF other than the FTA that would warrant further investigation. However, AFFF was utilized in fire suppression systems around the base where there were no hazardous discharges.

Through a "White Paper" written by a soldier requesting for the use of the laundry pads for use in training purposes, the laundry pads were identified as an area of interest for this investigation. Further collected data through interviews and research indicated for the potential use of laundry

detergents at LADSs that contained a Teflon based additive to restore water repellency to Gore-Tex materials which contain Perfluoroacrylate. Laundry Pad Sites 1, 2 and 3 in the Down Range area of the installation were identified as areas of potential areas of concern. These areas were sampled for PFCs, as well as, VOCs and Metals.

Another area identified during the interview process was the former fire station. The possibility that AFFF may have been discharged around the area due to historical cleaning and disposal practices. As a result the former fire house area has been identified for further investigation.

Under direction of Fragmentary Order 01 to Operations Order 16-088 Ft. Drum and the USACE also conducted PFOS and PFOA sampling for all Army-owned and operated water systems that have not previously sampled for PFOS and PFOA. These sites included potable and non-potable water supply systems that are both active and inactive which had a method of delivering water supplies. This means that all wells which had running electricity and functioning pumps were sampled. Wells that were identified as meeting these criteria were Water Wells 002, 003, 007, 009, 010, 011, 012, 014, 015, 016, 017, & 018. Additionally, the non-regulated/non-public water systems that were identified for investigation were located at locations; Hillside Lodge, Ammo Supply Point Admin, Ammo Supply Point Turn-In, Ammo Supply Point Inspection, Shower Points 14G, 13A & 17D, and Ranges 13A, 23, 35, 39, 44 & 48.

4.0 Field Activities

After the initial site assessment, investigations of the potentially impacted sites were ordered immediately after identification if time, accessibility, and resources aloud. In some cases areas that could not be investigated at the time of this report are in the planning process for investigation. Additionally, sites like the FTA it was determined that a more aggressively proactive approach was warranted due to the impact of nearby water supply wells and the Black River.

4.1 Fire Training Area

Ft. Drum Directorate of Public Works conducted a soil sampling event on 9-June-2016 at the project site as part of a spill response in which a petroleum odor was detected during a site walk-through. Field samples that were collected for analysis during this effort were from various locations around and immediately under the eastern concrete rim of the Fire Training Pit, all matrices were soil. Samples of the sludge and water perched in the pit were also collected for analysis. Based off of the returned results the facility took action to reduce the risk of further exposure to ground by demolishing and disposal of the Fire Training Pit materials and removal of soil to five feet below grade.

During the Month of August 2016 the USACE Field Exploration Unit (FEU) completed the installation of four groundwater monitoring wells in the area immediately up gradient and downgradient of former fire pit for characterization of PFCs in groundwater. Details of this event are outlined in Appendix A.

During the Month of October 2016 the Ft. Drum Directorate of Public Works conducted the removal of the Fire Pit Drainage System. The systems piping was plumbed from a floor drain in the fire pit to about four feet below top of ground and extended about one hundred feet to the west ending at an

underground storage tank and oil water separator. The tanks were placed at a bottom depth of around 12 feet. During the excavation it was noted that the piping from the pit to the tanks was braking during removal efforts, as such the remaining piping fragments were abandoned in place. A series of grab samples were taken at the base of the piping at different intervals along its length. Grab samples were also taken at the base of each of the tanks.

4.1.1 Results

The results for the June-2016 soil sampling event showed high levels of PFOS in the range of 150 ng/g to 11000 ng/g and low to high levels of PFOA in the range of 1.3 ng/g to 200 ng/g. The results from this sampling event show that concentrations are highest immediately at and to the northeast edge of the fire pit with concentrations decreasing rotating around the pit to the east southeastern edge and outward to Pit #1. The surface water that was perched within the pit had detections of PFOS at 280,000 and PFOA at 30,000.

The PFC results from the August-2016 groundwater sampling event showed that nearly all concentrations are very high. The dilution factor for many of the samples were extremely high due to the high concentrations, particularly for PFOS and PFOA. With dilution factors of 90 to 100 the data is reported in table 1 below as greater than the result, as the actual result exceeds the instrument range even with the dilutions. The range of results for PFOS is $>1500 \, \text{ng/L}$ to $>4800 \, \text{ng/L}$. The range of results for PFOA is $150 \, \text{ng/L}$ (MW-4) to $>2100 \, \text{ng/L}$.

The October-2016 soil samples that were collected during the removal of the fire training pit drainage system in generally showed low levels of PFC contamination. Only two samples showed somewhat elevated concentrations of PFOS and PFOA, the ground immediately under the oil water separator with PFOS at 100 ng/L and PFOA at 0.74 ng/L and Line Pit 2 (center of the drainage pipe) had levels of PFOS at 68 ng/L and PFOA at 5.6 ng/L.

4.2 Old Sanitary Landfill

Three groundwater monitoring wells at the OSL were sampled for PFCs; OSL-MW10, OSL-MW9A, and OSL-MW08. These three wells were chosen for sampling because of their positions to the edge of the landfills and the local groundwater flow directions at this site. Groundwater flows generally to the North and Northwest. OSL-MW-10 and OSL-MW9A were sampled due to their downgradient position to each cell of the OSL and OSL-MW08 was chosen because of the upgradient relationship to both OSL Cells. It was decided that if contamination were to occur it would be likely that it would be detected at these locations.

During the sampling event there was high level of construction activities located at OSL-MW08. Due to the construction activities a field blank was taken at this location to check for any background interference.

4.2.1 Results

All levels of PFCs were either non-detect or detected in very low concentrations, < 7.6 ng/L (PFOA+PFOS) in any one well. Construction activities showed no signs of negatively impacting the results.

Based on test results indicating no or very low level PFC detections, no additional investigations for PFCs at the Old Sanitary Landfill are recommended at this time.

4.3 Airfield Sanitary Landfill

Three groundwater monitoring wells at the ASL were sampled for PFCs; ASL-MW12A, ASL-MW14, and ASL-MW961. These three wells were chosen for sampling because of their positions to the edge of the landfills and the local groundwater flow directions at this site. Groundwater flows generally to the south-southeast over the majority of the ASL. Towards the North end of the ASL groundwater flows more towards the east. MW12A and ASL-MW14 were sampled because of their downgradient position relative to the ASL and ASL-MW961 was chosen because of the upgradient relationship. It was decided that if contamination were to occur it would be likely that it would be detected at these locations.

It was observed during sampling that these monitoring wells had dedicated Teflon lined sample tubing installed in each well. This was noted during sampling as Teflon lined tubing is not recommended for PFC sampling. Prior to sampling the tubing was removed and each well was purged according to low flow sampling guidelines.

4.3.1 Results

All levels of PFCs were either non-detect or detected in very low concentrations, < 4.3 ng/L (PFOA+PFOS) in any one well.

Based on test results indicating no or very low level PFC detections, no additional investigations for PFCs at the Airfield Sanitary Landfill are recommended at this time.

4.4 Laundry Pads

The laundry pads consist of three separate sites with nearly identical infrastructure and were believed to have been operated similarly. At each pad a sump drain and a leachate field sample were taken. Laundry Pad 3 had two sump drains so there was a sample taken from each in this case. In addition to PFC analysis, metals and sVOCs were analyzed as well.

The sump samples were taken by driving a decontaminated standard split spoon sampler through the bottom of each sump to a depth of two feet. A composite soil sample was collected for analysis.

While exact construction of the leachate field was not known prior to investigation, it was surmised that the four inch corrugated pipe that drained each sump lead directly out from the laundry pads to a below grade gravel bed leachate field. During field investigation this was found to be true. In order to identify the location for sampling a Schonstedt metal detector was used to define the linear extent of the drainage pipe from the sump that it drained. Once the end of the pipe was determined a CME750 drill rig was used to auger near the end of the pipe to a depth just below the piping as determined from the sump drainage measurement from top of ground. A split spoon sampler was driven through the augers until through the gravel bed. Once through the gravel bed a second split spoon sampler was driven for a length of two feet. The resulting soil sample was composited and jarred for analysis.

4.4.1 Results

All levels of PFCs were non-detect with the exception of a low level detect of < 1.6 ng/g PFOS at SB-3 Sump A.

There were no significant level of metals or sVOCs detected during this investigation. Based on test results indicating no or very low level detections of PFC, metals, or sVOCs, no additional investigations at the laundry pads are recommended at this time.

4.5 Former Firehouse

The Former Firehouse is no longer standing and has been replaced by new infrastructure. Future investigation to be conducted at this site has been identified and is expected to occur in calendar year(s) 2017/2018. Research will be conducted into what the exact footprint of the building and lot boundaries were. Once further research has been conducted a small series of soil and groundwater samples will be collected through temporary borings and an addendum in the form of a memo to this Preliminary Assessment will be issued.

4.6 Non-Regulated/Non-Public Water Systems

All water supply wells outside of the normal potable water distribution network which had operational pumps were sampled for PFCs by Ft. Drum Directorate of Public Works during July-2016. As these wells are operational no purge time was required and samples were collected directly from the supply lines.

4.6.1 Results

All levels of PFCs at each tested well were non-detect.

4.7 Water Supply Wells

All water supply wells that are part of the installation's potable water supply distribution network which had operational pumps were sampled for PFCs in joint effort by Ft. Drum Directorate of Public Works and the COE Baltimore District. At the time of the wells being sampled none of the wells were actively producing water.

Wells 2, 3, 9, 10, 14, 15, 16, 17, & 18 were sampled in April of 2017 exclusively by Fort Drum Directorate of Public Works. It is unclear the specific sampling methodology used at the time of sample collection for this event. What is known is that, no wells were operational at the time of sampling. Each well had to be turned on prior to sampling and samples were collected directly from the supply lines for that well prior to entering the main water supply network.

Wells 7 and 11 were sampled for PFCs during June-2016, along with the resampling of wells 14, 15, 16, 17, and 18. This sampling event was conducted jointly by the Fort Drum Directorate of Public Works and the USACE Baltimore District, where the USACE was the task lead. Sampling protocols followed the USACE Baltimore District standard operating procedures for sampling of PFCs. At the time of sampling none of the wells were in operation. Each well was turned on and three calculated well volumes were purged into an onsite vacuum

truck from either a hydrant or a valved bypass. Once purging was completed standard water quality parameters were collected and the purged water was discharged to the Ft. Drum sanitary sewer system for treatment. All samples were collected from either the hydrants or the bypasses.

In July-2016 Well 12 was sampled for PFCs. This well is situated between wells 7 and 11 and was not initially tested during the June event due to not having power to the system for operation. Once power was connected the same personnel and protocols were used for sampling of this well as was during the June event.

4.7.1 Results

Of the wells not associated with the New Well Field (Wells 14, 15, 16, 17, & 18) there were no detects of any PFCs in wells 9 and 10. Wells 2 and 3 had no detections of PFOS or PFOA but did have low levels of both PFHpA and PFHxS which there is no Health Advisory (HA) values associated. Wells 7, 11, and 12 did have detections of PFOS as well as detections of PFHpA and PFHxS, but did not exceed the HA levels of 70 ng/L. Well 7 was the only well with detections of PFOA and was the only well tested that exceeded HA levels for both PFOA and PFAS at a combined total of 101 ng/L, with PFOA being the largest constituent at 90 ng/L.

Of the wells associated with the New Well Field there were no detections of any PFCs that were tested.

4.8 Fire Suppression Systems

A total of ten fire suppression systems (9 hangers and 1 building), five DES crash trucks, and one DES trailer were investigated under this assessment for the use of AFFF and compliance with NYDEC's emergency and chemical bulk storage rules. Storage locations for fire suppressing foams exist at hanger locations 2072, 2060, 2074, 20470, and 20471 where the foaming agents are contained in 55 gallon drums. Under the chemical bulk storage rule registration is required only if the concentrations of PFOA and PFOS exceeds 1% or more by volume of one or more of the PFOA/S hazardous substances and the stationary device stores more than 185 gallons or 2200 lbs. in non-stationary devices. Additionally, all of the fixed fire suppression systems utilize entirely indoor and above ground infrastructure such as above ground storage tanks (AST) and above ground piping. The emergency rule sets in place guidelines for the prohibition and phase-out of PFOA and PFOS containing AFFF that would release more than one pound of the chemicals when used.

The Class B Fire Suppression Foam Usage Survey ($Appendix\ E$) as stated previously was completed at the request of NYSDEC. In completing this survey the NYSDEC requested further details on the use of specific manufacture products of AFFF being used by the suppression systems, specifically in response to questions 7a and 7e of this form. $Appendix\ G$ contains volumes and manufacturer information for each type of foam used at each one of these systems. To ensure manufacture provided data was accurate, collection and testing of foam from the suppression systems to confirm. Data for this testing can be found in $Appendix\ C$. It has been noted that historical data of types of foams used 5 years or greater in the past has not been located after exhaustively searching of facility records, as provided to the Division of Environmental Remediation - NYSDEC.

4.8.1 Results

None of the investigated locations require chemical bulk storage registration as no foam used contains 1% or more by volume of PFOA and PFOS.

Of the stationary systems checked only Hanger 2072 and Building 19855 employ the use of AFFF containing PFOA and PFOS all other buildings fire suppression systems have been replaced. Likewise, all newer buildings constructed have no known history of deployment of AFFF for fire suppression uses. In one case there was an accidental discharges of AFFF from a fire suppression systems in a newer building which was not released to the environment, waste from this particular deployment was drained into the sanitary sewer system via floor drains in the building. To this point, the fixed suppression systems being indoors and above ground would protect the environment as equally to this case since any release would be contained to building and the sanitary sewer drainage system. Otherwise, the discharge of AFFF in aircraft hangers is inherently rare due to the infrequency of aircraft fires, and fiscal loss incurred by the need to recharge the foam in the event of an accidental discharge. Because of the use of ASTs and above ground piping over underground systems there inherently is a lower risk to the environment from any potential leaks.

All non-stationary systems, five of the crash trucks and the trailer employ the use of AFFF which contains PFOA and PFOS. In each case there would be less than 0.5 lbs. of PFOA + PFOS discharged in any single event from any one of these systems which is well under the 1.0 lb. limit, meaning that a one-time release in the case of an emergency would not require an investigation. It may be the case however if there were to be multiple releases in one specific area over time, such as the FTA. The <0.5 lb. value was derived from the data of the confirmatory testing that was completed by Ft. Drum as described in section 4.8 using:

Equation

This value is up dated from the previously reported value of 0.003 lbs. maximum release as depicted in $Appendix\ G$. Using the calculation above, crash truck #2 with a volume of 1.7042 mg/L (PFOA+PFOS) came in at the highest tested concentration by volume stored at 0.45 lbs. and crash truck #4 came in <0.003 lbs. per volume stored. These system's foams also should be expected to contain other PFCs aside from PFOA and PFOS.

Fort Drum takes maintenance to ensure the safest operation possible of the fire systems seriously and as such are some of the best maintained systems in its inventory. This is especially true in the high profile areas as the aircraft hangers.

5.0 Discussion

In general there were no exceedances of PFOA + PFAS at any of the tested locations with the exception of the FTA and the water wells nearby the FTA. All other locations sampled were below the HA values and do not pose a risk

to any users. This lends to the point that PFCs should not be expected in any exceedances except for those areas where there was repetitive and definitive use or exposure to chemicals such as those found in AFFF.

Based off of the results taken from this assessment there are no anticipated impacts of PFCs to the new well field and Ft. Drums water supply distribution system.

The FTA has shown that the usage of AFFF largely contributes to the known contamination of PFCs in soil and groundwater, even in the case when using perceived appropriate precautionary measures. The level of detections at the FTA warrant further investigation at the FTA, which is currently under way at the time of this report. The contamination at the FTA stands to impact nearby water wells 7, 11, & 12 which has been seen from this assessment and could potentially lead to downgradient impacts to surface water bodies and future groundwater usage. It is believed at this time that the PFC contamination has been held largely in place locally to the FTA and slightly upgradient towards wells 7, 11, & 12 as wells 7 and 11 were operational up until the end of March-2016.

Due to the operation of Wells 7 and 11 until March-2016, the detection of PFCs at both the wells and the FTA, and analysis of hydrogeological models it is believed that the source of contamination at these wells can be attributed to the contamination at the FTA. As well 7 is the closest well to the FTA it stands to reason that its influence of the groundwater table would be largest thusly show higher detections of PFCs, which it does. There is also a noticeable decrease in concentrations moving further away towards well 12 and then well 11.

Under directive by the Department of Defense, the base has discontinued the use of any Class B firefighting foams for training purposes.

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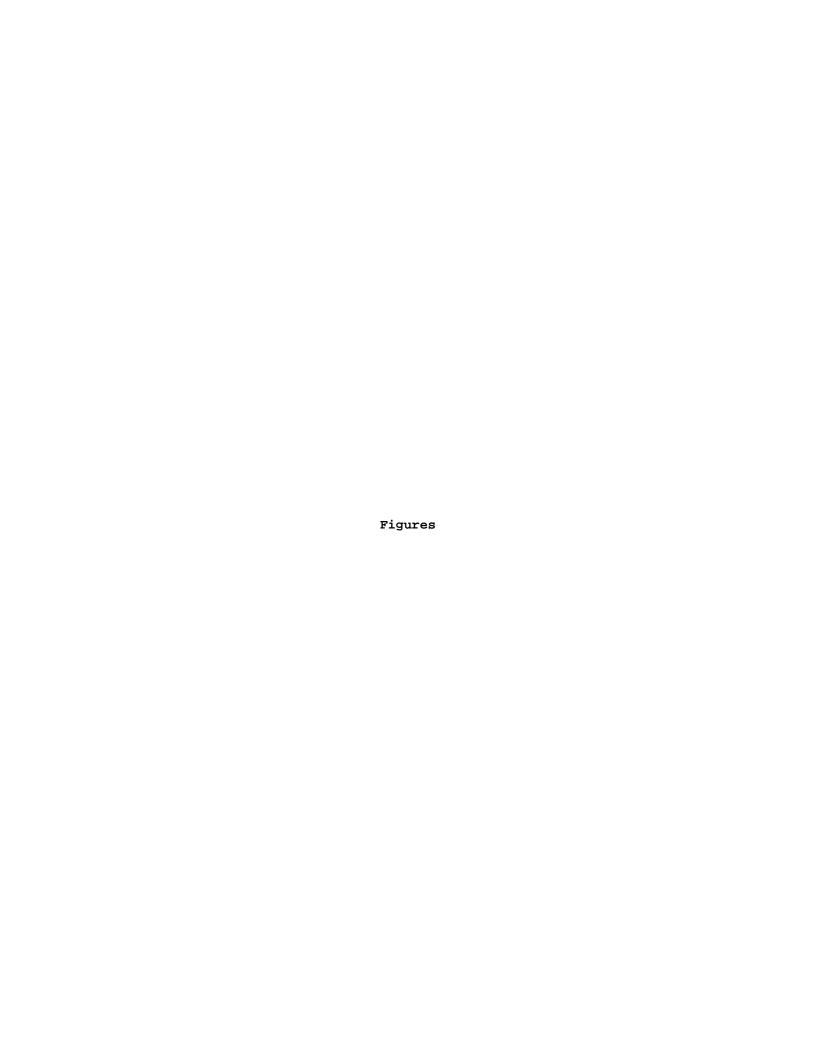
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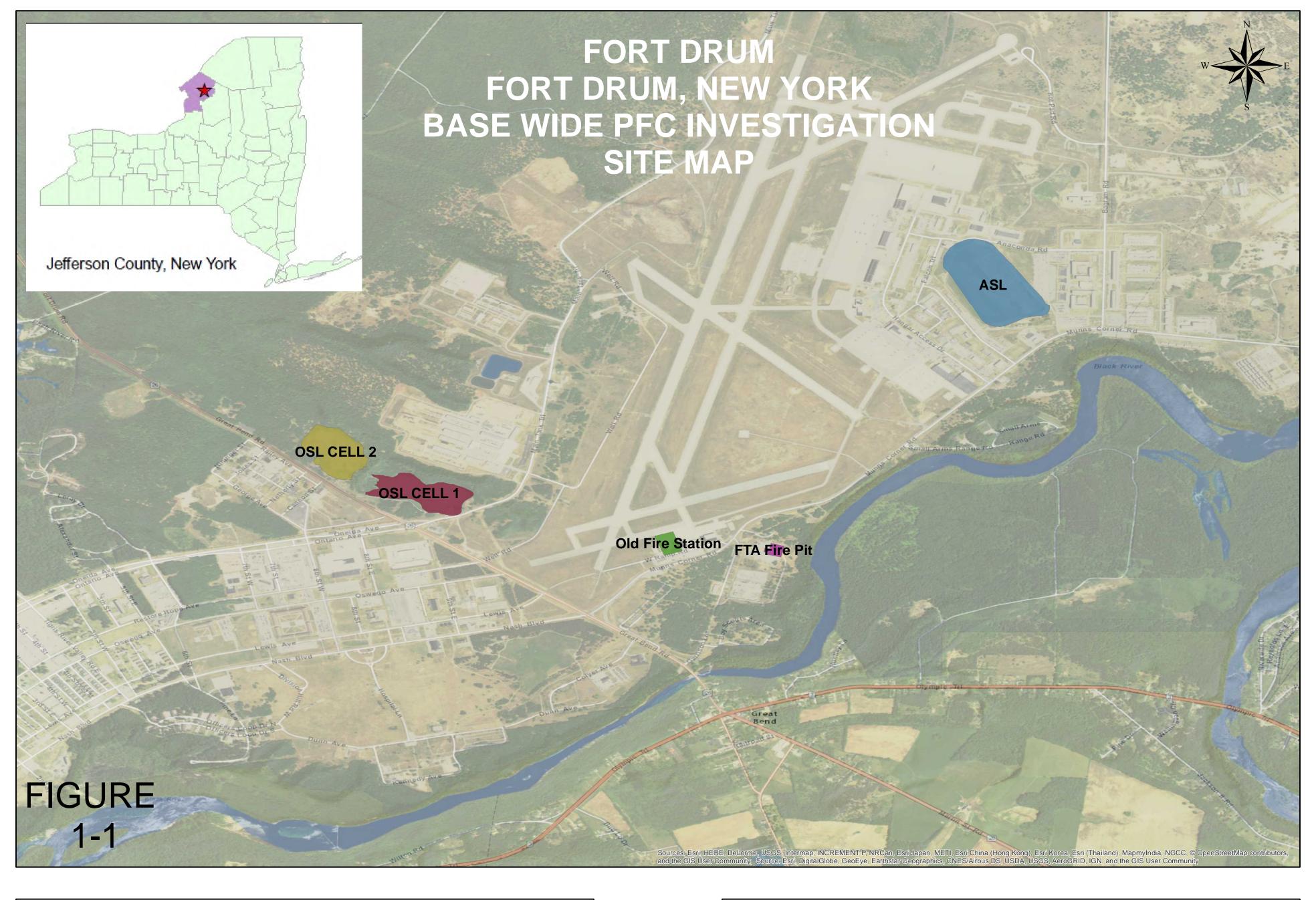
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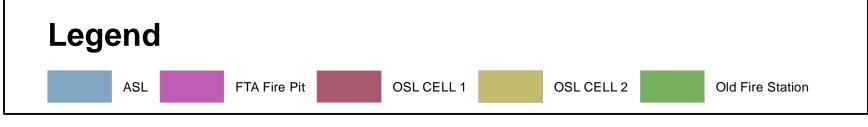
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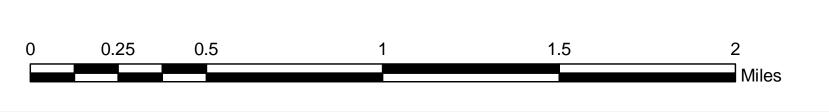
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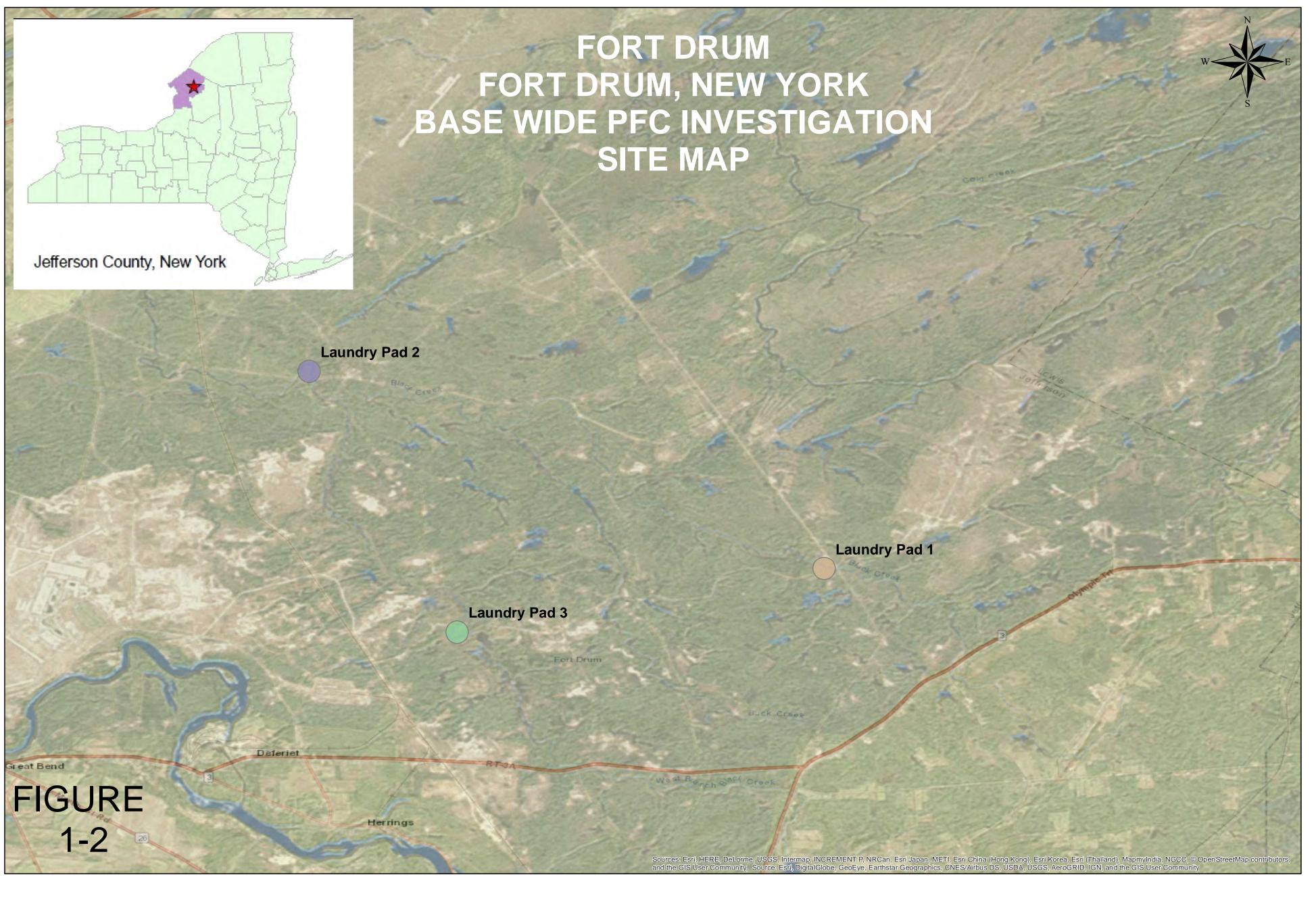






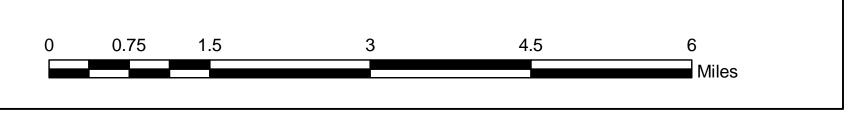
















| WW011 | |
|---|----------|
| Date | 6/2/2016 |
| Perfluorobutanesulfonic acid (PFBS) ng/L | 10 |
| Perfluoroheptanoic acid (PFHpA) ng/L | 11 |
| Perfluorohexanesulfonic acid (PFHxS) ng/L | 21 |
| Perfluorononanoic acid (PFNA) ng/L | < 2 |
| Perfluorooctane sulfonate (PFOS) ng/L | <4 |
| Perfluorooctanoic acid (PFOA) ng/L | 4.9 |

WW011

| WW012 | |
|---|-----------|
| Date | 7/21/2016 |
| Perfluorobutanesulfonic acid (PFBS) ng/L | <9 |
| Perfluoroheptanoic acid (PFHpA) ng/L | 12 |
| Perfluorohexanesulfonic acid (PFHxS) ng/L | 89 |
| Perfluorononanoic acid (PFNA) ng/L | < 2 |
| Perfluorooctane sulfonate (PFOS) ng/L | < 4 |
| Perfluorooctanoic acid (PFOA) ng/L | 50 |

WW012

| | MW-1 | |
|---|---|----------|
| | Date | 9/8/2016 |
| | Perfluorobutanesulfonic acid (PFBS) ng/L | 100 |
| 0 | Perfluoroheptanoic acid (PFHpA) ng/L | > 770 |
| | Perfluorohexanesulfonic acid (PFHxS) ng/L | > 1200 |
| | Perfluorononanoic acid (PFNA) ng/L | > 430 |
| | Perfluorooctane sulfonate (PFOS) ng/L | > 1500 |
| N | Perfluorooctanoic acid (PFOA) ng/L | > 1400 |

| MW-2 | And the same |
|---|--------------|
| Date | 9/8/2016 |
| Perfluorobutanesulfonic acid (PFBS) ng/L | 96 |
| Perfluoroheptanoic acid (PFHpA) ng/L | > 210 |
| Perfluorohexanesulfonic acid (PFHxS) ng/L | > 3700 |
| Perfluorononanoic acid (PFNA) ng/L | > 240 |
| Perfluorooctane sulfonate (PFOS) ng/L | > 3900 |
| Perfluorooctanoic acid (PFOA) ng/L | >1500 |
| | |

| 9/8/2016 |
|-------------------------|
| 130 |
| >330 |
| >430 |
| 9.6 |
| > 4500 |
| 150 EQ, USGS, Intern |
| |

WW007

Date 6/2/2016

Perfluorobutanesulfonic acid (PFBS) ng/L <9

Perfluoroheptanoic acid (PFHpA) ng/L 36

Perfluorohexanesulfonic acid (PFHxS) ng/L 150

Perfluorononanoic acid (PFNA) ng/L <2

Perfluorooctane sulfonate (PFOS) ng/L 11

Perfluorooctanoic acid (PFOA) ng/L 90

/ WW007

| | MW-3 | | |
|--|---|--|--|
| | Date | 9/8/2016 | |
| | Perfluorobutanesulfonic acid (PFBS) ng/L | > 1100 | |
| | Perfluoroheptanoic acid (PFHpA) ng/L | > 1500 | |
| | Perfluorohexanesulfonic acid (PFHxS) ng/L | > 3500 | |
| | Perfluorononanoic acid (PFNA) ng/L | > 1300 | |
| | Perfluorooctane sulfonate (PFOS) ng/L | > 4800 | |
| | Perfluorooctanoic acid (PFOA) ng/L | > 2100 | |
| | | THE PARTY OF THE P | |

/MW-3 MW-4

Esri, DeLorme, NAVTEQ, USGS, intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

MW-1

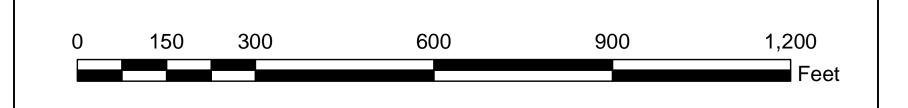
MW-2

Date: 1/24/2017 Time: 10:43:23 AM

FIGURE

Legend





FORT DRUM FORT DRUM, NEW YORK BASE WIDE PFC INVESTIGATION FTA SOIL AND PIT SAMPLES SITE MAP



| Line Pit 3 | 1/200 |
|---|------------|
| Date | 10/26/2016 |
| Perfluorobutanesulfonic acid (PFBS) ng/g | < 0.49 |
| Perfluoroheptanoic acid (PFHpA) ng/g | < 0.29 |
| Perfluorohexanesulfonic acid (PFHxS) ng/g | < 0.49 |
| Perfluorononanoic acid (PFNA) ng/g | < 0.20 |
| Perfluorooctane sulfonate (PFOS) ng/g | < 0.69 |
| Perfluorooctanoic acid (PFOA) ng/g | < 0.29 |

| Oil Tank | | |
|---|------------|--|
| Date | 10/26/2016 | |
| Perfluorobutanesulfonic acid (PFBS) ng/g | < 0.52 | |
| Perfluoroheptanoic acid (PFHpA) ng/g | < 0.31 | |
| Perfluorohexanesulfonic acid (PFHxS) ng/g | < 0.52 | |
| Perfluorononanoic acid (PFNA) ng/g | 0.60 | |
| Perfluorooctane sulfonate (PFOS) ng/g | 20 | |
| Perfluorooctanoic acid (PFOA) ng/g | < 0.31 | |

| Water Tank | 173 |
|---|------------|
| Date | 10/26/2016 |
| Perfluorobutanesulfonic acid (PFBS) ng/g | < 0.52 |
| Perfluoroheptanoic acid (PFHpA) ng/g | < 0.31 J |
| Perfluorohexanesulfonic acid (PFHxS) ng/g | < 0.52 |
| Perfluorononan <mark>oic acid (PFNA</mark>) ng/g | < 0.21 |
| Perfluorooctane sulfonate (PFOS) ng/g | 13 |
| Perfluorooctanoic acid (PFOA) ng/g | < 0.43 J |

| OWS | No. |
|---|-----------|
| Date | 10/26/201 |
| Perfluorobutanesulfonic acid (PFBS) ng/g | < 0.51 |
| Perfluoroheptanoic acid (PFHpA) ng/g | 0.34 J |
| Perfluorohexanesulfonic acid (PFHxS) ng/g | 0.87 J |
| Perfluorononanoic acid (PFNA) ng/g | 0.77 |
| Perfluorooctane sulfonate (PFOS) ng/g | 100 |
| Perfluorooctanoic acid (PFOA) ng/g | 0.74 |

| Fire Pit Surface Water | |
|---|----------|
| Date | 6/9/2016 |
| Perfluorobutanesulfonic acid (PFBS) ng/g | 10000 |
| Perfluoroheptanoic acid (PFHpA) ng/g | 28000 |
| Perfluorohexanesulfonic acid (PFHxS) ng/g | 90000 |
| Perfluorononanoic acid (PFNA) ng/g | 2100 |
| Perfluorooctane sulfonate (PFOS) ng/g | 280000 |
| Perfluorooctanoic acid (PFOA) ng/g | 30000 |
| | |

Oil Tank

Water Tank

Oil Water Separator

Line Pit 3

Line Pit 2

Calculate Water

Line Pit 2

Calculate Water

Surface Water

Surface Water

Surface Water

| Sludge | | |
|---|----------|--|
| Date | 6/9/2016 | |
| Perfluorobutanesulfonic acid (PFBS) ng/g | 38 | |
| Perfluoroheptanoic acid (PFHpA) ng/g | 95 | |
| Perfluorohexanesulfonic acid (PFHxS) ng/g | 330 | |
| Perfluorononanoic acid (PFNA) ng/g | 34 | |
| Perfluorooctane sulfonate (PFOS) ng/g | 11000 | |
| Perfluorooctanoic acid (PFOA) ng/g | 200 | |

| Overhang #1 | |
|---|----------|
| Date | 6/9/2016 |
| Perfluorobutanesulfonic acid (PFBS) ng/g | ND |
| Perfluoroheptanoic acid (PFHpA) ng/g | 0.38 |
| Perfluorohexanesulfonic acid (PFHxS) ng/g | 12 |
| Perfluorononanoic acid (PFNA) ng/g | 7.3 |
| Perfluorooctane sulfonate (PFOS) ng/g | 350 |
| Perfluorooctanoic acid (PFOA) ng/g | 1.3 |

| Overhang #2 | | |
|---|----------|--|
| Date | 6/9/2016 | |
| Perfluorobutanesulfonic acid (PFBS) ng/g | 0.53 | |
| Perfluoroheptanoic acid (PFHpA) ng/g | 2.2 | |
| Perfluorohexanesulfonic acid (PFHxS) ng/g | 18 | |
| Perfluorononanoic acid (PFNA) ng/g | 73 | |
| Perfluorooctane sulfonate (PFOS) ng/g | 2600 | |
| Perfluorooctanoic acid (PFOA) ng/g | 2.6 | |
| | | |

| Overhang #3 | | |
|---|----------|--|
| Date | 6/9/2016 | |
| Perfluorobutanesulfonic acid (PFBS) ng/g | ND | |
| Perfluoroheptanoic acid (PFHpA) ng/g | 0.38 | |
| Perfluorohexanesulfonic acid (PFHxS) ng/g | 8.5 | |
| Perfluorononanoic acid (PFNA) ng/g | 4.2 | |
| Perfluorooctane sulfonate (PFOS) ng/g | 150 | |
| Perfluorooctanoic acid (PFOA) ng/g | 1.1 | |

| | Pit #1 | |
|---|---|----------|
| 6 | Date | 6/9/2016 |
| | Perfluorobutanesulfonic acid (PFBS) ng/g | ND |
| | Perfluoroheptanoic acid (PFHpA) ng/g | ND |
| | Perfluorohexanesulfonic acid (PFHxS) ng/g | 8.4 |
| | Perfluorononanoic acid (PFNA) ng/g | 7.4 |
| | Perfluorooctane sulfonate (PFOS) ng/g | 210 |
| | Perfluorooctanoic acid (PFOA) ng/g | 12 |

FIGURE 3

| Line Pit 2 | |
|---|----------|
| Date | 10/26/20 |
| Perfluorobutanesulfonic acid (PFBS) ng/g | < 0.49 |
| Perfluoroheptanoic acid (PFHpA) ng/g | 0.63 |
| Perfluorohexanesulfonic acid (PFHxS) ng/g | 1.8 |
| Perfluorononanoic acid (PFNA) ng/g | 6.6 |
| Perfluorooctane sulfonate (PFOS) ng/g | 68 |
| Perfluorooctanoic acid (PFOA) ng/g | 5.6 |
| | |

| | Line Pit 1 | |
|---|---|------------|
| 6 | Date | 10/26/2016 |
| | Perfluorobutanesulfonic acid (PFBS) ng/g | < 0.51 |
| | Perfluoroheptanoic acid (PFHpA) ng/g Perfluorohexanesulfonic acid (PFHxS) ng/g Perfluorononanoic acid (PFNA) ng/g | < 0.31 |
| | Perfluorohexanesulfonic acid (PFHxS) ng/g | < 0.51 |
| | Perfluorononanoic acid (PFNA) ng/g | < 0.21 |
| | Perfluorooctane sulfonate (PFOS) ng/g | < 0.72 |
| | Perfluorooctanoic acid (PFOA) ng/g | < 0.31 |

Sources: Esri, HERE, DeLorme, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), MapmyIndia, NGCC, © OpenStreetMap contributors, and the GIS User Community, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Overhang 1

Overhang 3

PPit 1

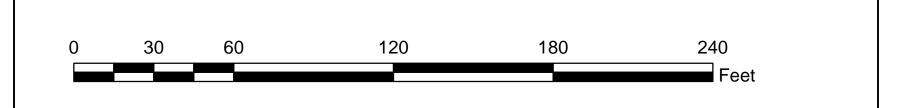
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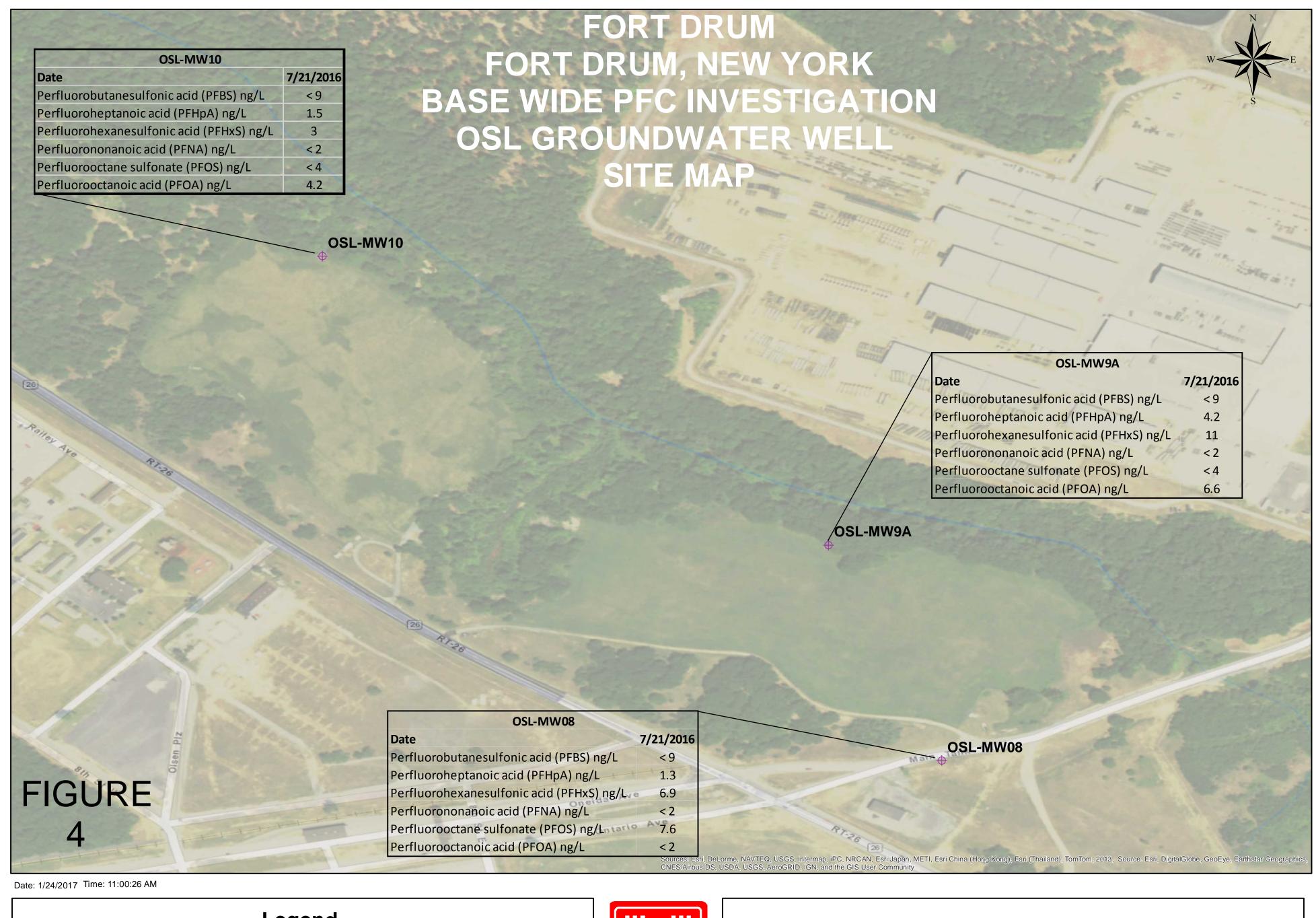
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Legend

Grab Samples



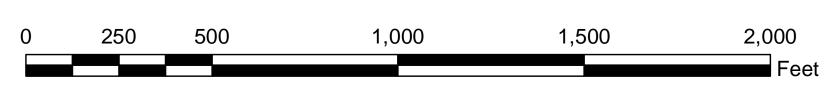




Legend

Monitoring Well ⊕ Supply Well







Monitoring Well



| 0 | 315 | 630 | 1,260 | 1,890 | 2,520 |
|---|-----|-----|-------|-------|-------|
| | | | | | Feet |



Legend

Soil Boring







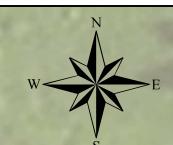
Legend

Soil Boring





FORT DRUM FORT DRUM, NEW YORK BASE WIDE PFC INVESTIGATION LAUNDRY PAD 3 SOIL BORINGS SITE MAP



| SB-3 SumpA | 100 |
|---|-----------|
| Date | 11/2/2016 |
| Perfluorobutanesulfonic acid (PFBS) ng/g | < 0.54 |
| Perfluoroheptanoic acid (PFHpA) ng/g | < 0.33 |
| Perfluorohexanesulfonic acid (PFHxS) ng/g | < 0.54 |
| Perfluorononanoic acid (PFNA) ng/g | < 0.22 |
| Perfluorooctane sulfonate (PFOS) ng/g | 1.6 J |
| Perfluorooctanoic acid (PFOA) ng/g | < 0.33 |

SB-3-Drain SB-3-SumpA SB-3-SumpB

| SB-3 SumpB | | |
|---|-----------|--|
| Date | 11/2/2016 | |
| Perfluorobutanesulfonic acid (PFBS) ng/g | < 0.55 | |
| Perfluoroheptanoic acid (PFHpA) ng/g | < 0.33 | |
| Perfluorohexanesulfonic acid (PFHxS) ng/g | < 0.55 | |
| Perfluorononanoic acid (PFNA) ng/g | < 0.22 | |
| Perfluorooctane sulfonate (PFOS) ng/g | < 0.76 | |
| Perfluorooctanoic acid (PFOA) ng/g | < 0.33 | |

| SB-3 Drain | | | | | | |
|---|-----------|--|--|--|--|--|
| Date | 11/2/2016 | | | | | |
| Perfluorobutanesulfonic acid (PFBS) ng/g | < 0.50 | | | | | |
| Perfluoroheptanoic acid (PFHpA) ng/g | < 0.30 | | | | | |
| Perfluorohexanesulfonic acid (PFHxS) ng/g | < 0.50 | | | | | |
| Perfluorononanoic acid (PFNA) ng/g | < 0.20 | | | | | |
| Perfluorooctane sulfonate (PFOS) ng/g | < 0.70 | | | | | |
| Perfluorooctanoic acid (PFOA) ng/g | < 0.30 | | | | | |

FIGURE 8

Sources: Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2013, Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographic CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

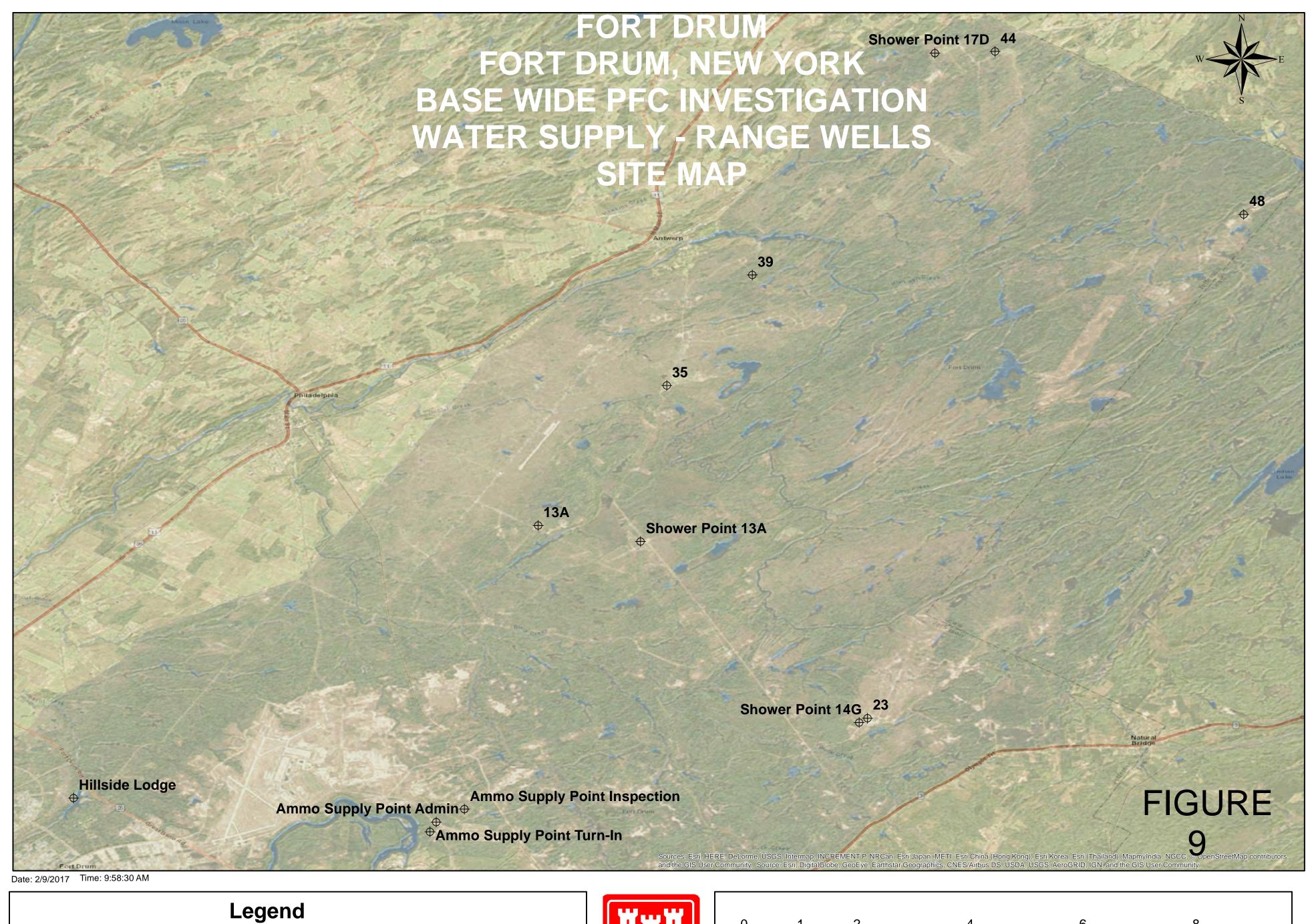
Date: 1/24/2017 Time: 11:56:48 AM

Legend

Soil Boring



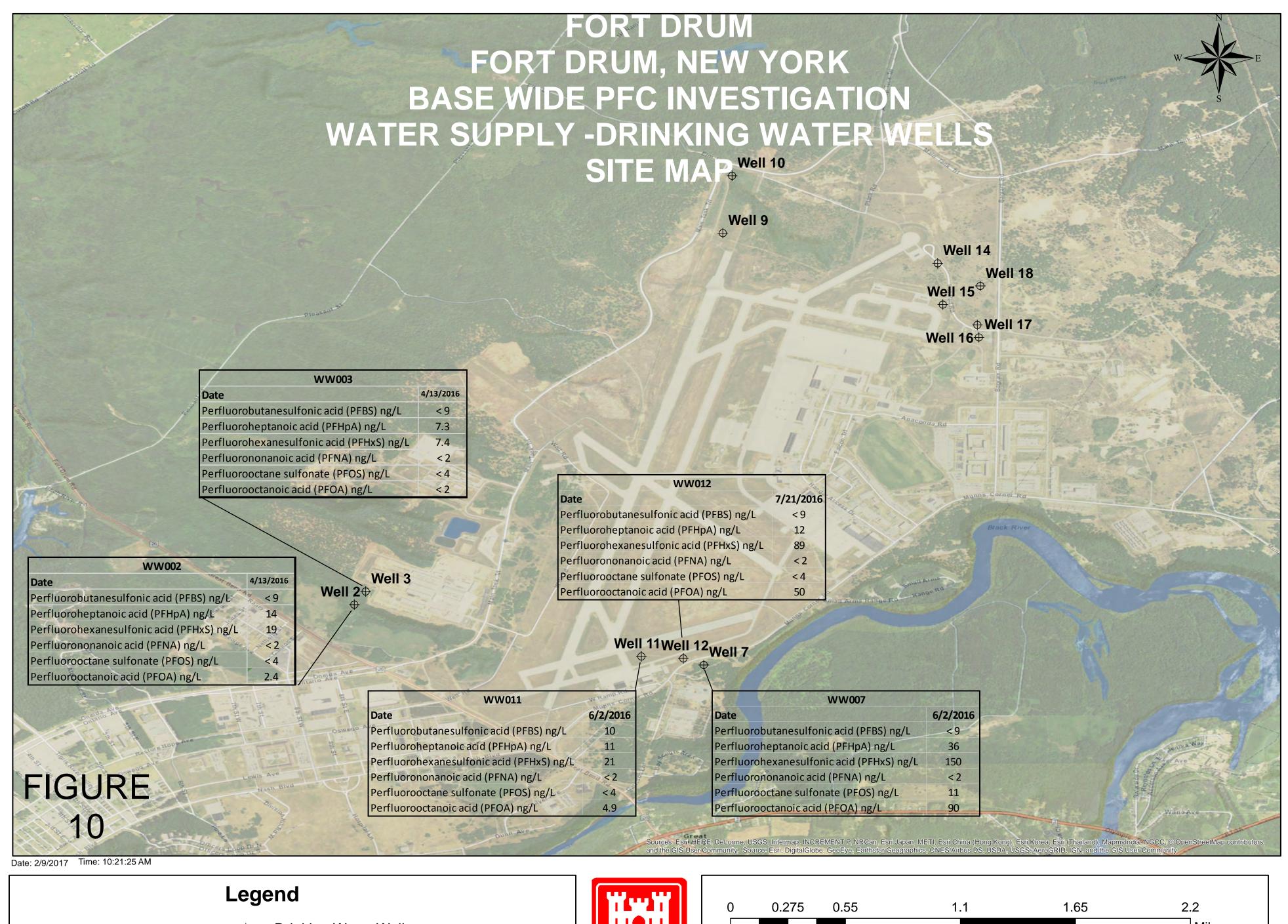




⊕ Range Wells



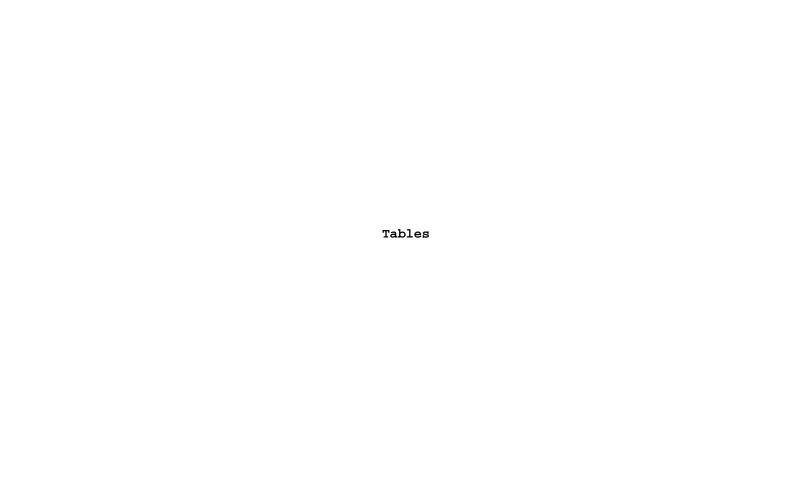




Drinking Water Wells







| | TAB | SLE 1: PFC Co | ncentrations | s by Site - Gr | oundwater | | | | |
|--------------------------------------|-----------|---------------|--------------|----------------|-----------|-----------|-----------|-----------|-----------|
| Site | FTA | FTA | FTA | FTA | WF | WF | WF | WF | WF |
| Sample ID | MW-1 | MW-2 | MW-3 | MW-4 | WW002 | WW003 | WW007 | WW009 | WW010 |
| Date Sampled | 8-Sep-16 | 8-Sep-16 | 8-Sep-16 | 8-Sep-16 | 13-Apr-16 | 13-Apr-16 | 2-Jun-16 | 13-Apr-16 | 13-Apr-16 |
| | ng/L | ng/L | ng/L | ng/L | ng/L | ng/L | ng/L | ng/L | ng/L |
| Perfluorobutanesulfonic acid (PFBS) | 100 | 96 | > 1100 | 130 | < 9 | < 9 | < 9 | < 9 | < 9 |
| Perfluoroheptanoic acid (PFHpA) | > 770 | > 210 | > 1500 | > 330 | 14 | 7.3 | 36 | < 1 | < 1 |
| Perfluorohexanesulfonic acid (PFHxS) | > 1200 | > 3700 | > 3500 | > 430 | 19 | 7.4 | 150 | < 3 | < 3 |
| Perfluorononanoic acid (PFNA) | > 430 | > 240 | > 1300 | 9.6 | < 2 | < 2 | < 2 | < 2 | < 2 |
| Perfluorooctane sulfonate (PFOS) | > 1500 | > 3900 | > 4800 | > 4500 | < 4 | < 4 | 11 | < 4 | < 4 |
| Perfluorooctanoic acid (PFOA) | > 1400 | > 1500 | > 2100 | 150 | 2.4 | < 2 | 90 | < 2 | < 2 |
| Site | WF | WF | WF | WF | WF | WF | WF | OSL | OSL |
| Sample ID | WW011 | WW012 | WW0014 | WW015 | WW016 | WW017 | WW018 | MW08 | MW9A |
| Date Sampled | 2-Jun-16 | 21-Jul-16 | 12-Apr-16 | 13-Apr-16 | 13-Apr-16 | 13-Apr-16 | 12-Apr-16 | 21-Jul-16 | 21-Jul-16 |
| | ng/L | ng/L | ng/L | ng/L | ng/L | ng/L | ng/L | ng/L | ng/L |
| Perfluorobutanesulfonic acid (PFBS) | < 9 | < 9 | < 9 | < 9 | < 9 | < 9 | < 9 | < 9 | < 9 |
| Perfluoroheptanoic acid (PFHpA) | 36 | 12 | < 1 | < 1 | < 1 | < 1 | < 1 | 1.3 | 4.2 |
| Perfluorohexanesulfonic acid (PFHxS) | 150 | 89 | < 3 | < 3 | < 3 | < 3 | < 3 | 6.9 | 11 |
| Perfluorononanoic acid (PFNA) | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 |
| Perfluorooctane sulfonate (PFOS) | 11 | < 4 | < 4 | < 4 | < 4 | < 4 | < 4 | 7.6 | < 4 |
| Perfluorooctanoic acid (PFOA) | 90 | 50 | < 2 | < 2 | < 2 | < 2 | < 2 | < 2 | 6.6 |
| Site | OSL | ASL | ASL | ASL | | | | | |
| Sample ID | MW10 | MW12A | MW14 | MW961 | | | | | |
| Date Sampled | 21-Jul-16 | 21-Jul-16 | 21-Jul-16 | 21-Jul-16 | | | | | |
| | ng/L | ng/L | ng/L | ng/L | | | | | |
| Perfluorobutanesulfonic acid (PFBS) | < 9 | < 9 | < 9 | < 9 | | | | | |

1.5 36 < 1 7.6 Perfluoroheptanoic acid (PFHpA) Perfluorohexanesulfonic acid (PFHxS) 5.5 < 3 19 Perfluorononanoic acid (PFNA) < 2 < 2 < 2 < 2 < 4 Perfluorooctane sulfonate (PFOS) < 4 < 4 < 4 Perfluorooctanoic acid (PFOA) 4.2 2.6 < 2

BOLD TEXT INDICATE DETECTIONS PFOA & PFAS

TABLE 2: PFC Concentrations by Site - Soils

| Site | FTA | FTA | FTA | FTA | FTA | FTA | FTA | FTA | FTA |
|---|---|--|--|---|--|---|---|--|---|
| Sample ID | SLUDGE | PIT#1 | OH #1 | OH #2 | OH #3 | ows | OIL TANK | LP #1 | LP #2 |
| Date Sampled | 9-Jun-16 | 9-Jun-16 | 9-Jun-16 | 9-Jun-16 | 9-Jun-16 | 26-Oct-16 | 26-Oct-16 | 26-Oct-16 | 26-Oct-16 |
| | ng/g | ng/g | ng/g | ng/g | ng/g | ng/g | ng/g | ng/g | ng/g |
| Perfluorobutanesulfonic acid (PFBS) | 38 | ND | ND | 0.53 | ND | < 0.51 | < 0.52 | < 0.51 | < 0.49 |
| Perfluoroheptanoic acid (PFHpA) | 95 | ND | 0.38 | 2.2 | 0.38 | 0.34 J | < 0.31 | < 0.31 | 0.63 |
| Perfluorohexanesulfonic acid (PFHxS) | 330 | 8.4 | 12 | 18 | 8.5 | 0.87 J | < 0.52 | < 0.51 | 1.8 |
| Perfluorononanoic acid (PFNA) | 34 | 7.4 | 7.3 | 73 | 4.2 | 0.77 | 0.60 | < 0.21 | 6.6 |
| Perfluorooctane sulfonate (PFOS) | 11000 | 210 | 350 | 2600 | 150 | 100 | 20 | < 0.72 | 68 |
| Perfluorooctanoic acid (PFOA) | 200 | 12 | 1.3 | 2.6 | 1.1 | 0.74 | < 0.31 | < 0.31 | 5.6 |
| | | | | | | | | | |
| Site | FTA | FTA | LP1 | LP1 | LP2 | LP2 | LP3 | LP3 | LP3 |
| Site Sample ID | FTA LP #3 | FTA WTR TANK | LP1 SB1Drain | LP1 SB1Sump | LP2 SB2Drain | LP2 SB2Sump | LP3 SB3Drain | LP3 SB3SumpA | LP3 SB3SumpB |
| | LP #3 | | | | | | | | |
| Sample ID | LP #3 | WTR TANK | SB1Drain | SB1Sump | SB2Drain | SB2Sump | SB3Drain | SB3SumpA | SB3SumpB |
| Sample ID | LP #3 26-Oct-16 | WTR TANK 26-Oct-16 | SB1Drain 1-Nov-16 ng/g | SB1Sump 1-Nov-16 ng/g | SB2Drain 2-Nov-16 | SB2Sump 2-Nov-16 | SB3Drain 2-Nov-16 | SB3SumpA 2-Nov-16 | SB3SumpB 2-Nov-16 ng/g |
| Sample ID Date Sampled | LP #3 26-Oct-16 ng/g | WTR TANK 26-Oct-16 ng/g | SB1Drain 1-Nov-16 ng/g | SB1Sump 1-Nov-16 ng/g | SB2Drain 2-Nov-16 ng/g | SB2Sump 2-Nov-16 ng/g | SB3Drain 2-Nov-16 ng/g < 0.50 | SB3SumpA 2-Nov-16 ng/g | SB3SumpB 2-Nov-16 ng/g < 0.55 |
| Sample ID Date Sampled Perfluorobutanesulfonic acid (PFBS) | LP #3 26-Oct-16 ng/g < 0.51 | WTR TANK 26-Oct-16 ng/g < 0.52 | \$B1Drain 1-Nov-16 ng/g < 0.56 < 0.34 | SB1Sump 1-Nov-16 ng/g < 0.62 < 0.37 | SB2Drain 2-Nov-16 ng/g < 0.57 | \$B2Sump 2-Nov-16 ng/g < 0.59 | SB3Drain 2-Nov-16 ng/g < 0.50 | SB3SumpA 2-Nov-16 ng/g < 0.54 | SB3SumpB 2-Nov-16 ng/g < 0.55 < 0.33 |
| Sample ID Date Sampled Perfluorobutanesulfonic acid (PFBS) Perfluoroheptanoic acid (PFHpA) | LP #3 26-Oct-16 ng/g < 0.51 < 0.31 | WTR TANK 26-Oct-16 ng/g < 0.52 < 0.31 J | \$B1Drain 1-Nov-16 ng/g < 0.56 < 0.34 | SB1Sump 1-Nov-16 ng/g < 0.62 < 0.37 | SB2Drain 2-Nov-16 ng/g < 0.57 < 0.34 | SB2Sump 2-Nov-16 ng/g < 0.59 < 0.36 | SB3Drain 2-Nov-16 ng/g < 0.50 < 0.30 | SB3SumpA 2-Nov-16 ng/g < 0.54 < 0.33 | SB3SumpB 2-Nov-16 ng/g < 0.55 < 0.33 |
| Sample ID Date Sampled Perfluorobutanesulfonic acid (PFBS) Perfluoroheptanoic acid (PFHpA) Perfluorohexanesulfonic acid (PFHxS) | LP #3 26-Oct-16 ng/g < 0.51 < 0.31 < 0.51 | WTR TANK 26-Oct-16 ng/g < 0.52 < 0.31 J < 0.52 | SB1Drain 1-Nov-16 ng/g < 0.56 < 0.34 < 0.56 | SB1Sump 1-Nov-16 ng/g < 0.62 < 0.37 < 0.62 < 0.25 | SB2Drain 2-Nov-16 ng/g < 0.57 < 0.34 < 0.57 | SB2Sump 2-Nov-16 ng/g < 0.59 < 0.36 < 0.59 | SB3Drain 2-Nov-16 ng/g < 0.50 < 0.30 < 0.50 | SB3SumpA 2-Nov-16 ng/g < 0.54 < 0.33 < 0.54 | SB3SumpB 2-Nov-16 ng/g < 0.55 < 0.33 < 0.55 |

BOLD TEXT INDICATE DETECTIONS PFOA & PFAS





Fire Training Pit July Investigation



Figure 1 - Fire Training Pit - Test Pit 1 to the Right of Pit Just Out of Photo



Figure 2 - Fire Training Pit Test Pit 1



Figure 3 - Fire Training Pit - Overhang Sample Locations

Fire Training Pit Drainage System Removal



Figure 4 - 5,000 Gallon Steel Storage Tank



Figure 5 - 300 Gallon Steel Storage Tank



Figure 6 - Oil Water Separator



Figure 7 - Drainage Line Pits



3M Light Water™ 3% AFFF FC-203CF

Product Information

| Post-It* Fax Note 7671 | Date 3/4/98 pages 18 |
|------------------------|----------------------|
| TO KAY Pierson | From Box (1941) |
| Co./Dept. | Co. |
| Phone # | Phone 9 6/2/733-0444 |
| Fax# | Fax # |

Description

3M' Light Water FC-203CF 3% Aqueous Film Forming Foam (AFFF) is a synthetic firefighting foam concentrate designed for use on non-polar, hydrocarbon hazards. When proportioned with water and applied with conventional foam or water/fog equipment, Light Water 3% AFFF provides excellent control and extinguishment of Class B fires by spreading a vapor-sealing film over the liquid fuel. This vapor seal inhibits reflash even when the foam hlanket is ruptured and also allows the product to be used to secure non-ignited spills. Light Water 3% AFFF provides excellent penetrating and wetting qualities when used on Class A fires. This is important when extinguishing deep-seated fires in wood, paper, rubber tires and other ordinary combustibles.

Typical Properties

(Not for Specification Purposes)

 Nominal use concentration
 3%

 Specific gravity
 @ 77°F (25°C): 1.027

 Density
 8.56 lbs./gal.

 Viscosity
 @ 77°F (25°C): 3.5 centistokes

 @ 40°F (4.4°C): 5.3 centistokes

 Freeze point
 25°F (-4°C)

 pH
 @ 77°F (25°C): 8

 Appearance
 Amber liquid

Applications

Light Water FC-203CF 3% AFFF can be used with conventional foam equipment with fresh, sea or brackish water. Self-educting foam nozzles and foam nozzles with in-line eductors are among the most common types of hardware for application.

In addition to its use in aspirating foam equipment, Light Water 3% AFFF can be dispensed effectively through non-aspirating equipment including fog nozzles, water spray devices and standard sprinklers, Light Water 3% AFFF exceeds U.S. Military specification MIL F24385F, supersedes E(SH) and is listed on the U.S. Military Q.P.L. (Qualified Product List). Light Water FC-203CF 3% AFFF is listed by UL and approved by Factory Mutual Research Corporation (FM).

Light Water 3% AFFF may be applied to fires simultaneously with dry chemical firefighting agents because the two are compatible.

Features

Effective: Rapid extinguishment reduces the chances of dangerous incidents and reduces the risk to property and equipment. Light Water 3% AFFF also prevents reflash and bumback, which are major causes of injuries. The securing action of Light Water 3% AFFF minimizes the fire hazard during clean up of flammable liquid spills.

Reliable: Light Water 3% AFFF can be stored for virtually an indefinite period of time in approved equipment and systems. NFPA 11 recommends annual inspection of all foam systems.

Features (cont.)

Economical: Light Water FC-203CF 3% AFFF offers faster extinguishment than protein based foams, so less agent is required in training and actual fire emergencies. Its wide range of applications reduces or eliminates the need to inventory other special type agents.

Environmental/ Toxicological Properties

Light Water FC-203CF 3% AFFF concentrates undergo a program of ongoing testing to assess the impact of 3M firefighting foam on the natural environment. Data indicate that:

3M[™] AFFF products are low in toxicity to tested aquatic organisms. (Toxicity information is available from Product Environmental Data Sheets, Material Safety Data Sheets and Toxicity Summary Sheets for individual products.)

Aquatic life is not adversely affected when 3M AFFF products are used and disposed of properly.

3M AFFF products can be successfully treated in biological waste water treatment systems. (Request Product Environmental Data Sheets and Disposal Recommendations from your 3M representative.)

Storage

Light Water FC-203CF 3% AFFF may be stored in its shipping container without change in its original physical or chemical characteristics. It does not show significant sedimentation or precipitation in storage or after temperature cycling. Freezing and thawing have no effect on performance and the concentrate proportions satisfactorily in ordinary equipment at temperatures above 32°F. Freeze-thaw cycling may cause slight stratification which may be overcome with moderate agitation. Premix solutions in fresh water may be stored long-term for ready use at temperatures above freezing.

Packaging

Light Water 3% AFFF is available in 5 gallon pails or 55 gallon drums.

Representative Locations

3M Corporate Headquarters Fire Protection Systems 3M Center, Building 223-6S-(14 St. Paul, MN 55144-1000 1 800 360 6777 612 733 6791 (FAX – Orders Only)

Anchorage 11151 Calaska Circle Anchorage, AK 99515 907 522 5200

Honolulu

4443 Malazi Street (96818) PO Box 30048 Honolulu, HI 96820 808 422 2721

Canada 3M Canada Inc. 1840 Oxford Street PO Box 5757 London, Ontario, Canada N6A 4T1 519 451 2500

519 452 6262 (FAX) **24 Hour Emergency Service**612 733 1110

Important Notice to Purchaser: All statements, technical information and recommendations herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed, and the following is made in lieu of all warranties, expressed or implied, including the implied warranties of merchaniability and fitness for purpose: Seller's and manufacturer's only obligation shall be to replace such quantity of the product proved to be defective. Before using, user shall determine the suitability of the product for its intended use, and user assumes all risk and liability whatsoever in connection therewith. NEITHER SELLER NOR MANUFACTURER SHALL BE LIABLE EITHER IN TORT OR IN CONTRACT FOR ANY LOSS OR DAMAGE, DIRECT, INCIDENTAL, OR CONSEQUENTIAL ARISING OUT OF THE USE OF OR THE INABILITY TO USE THE PRODUCT. No statement or recommendation not contained herein shall have any force or effect unless in an agreement signed by officers of seller and manufacturer.

3M

Fire Protection Systems 3M Specialty Chemicals Division 3M Center, Building 223-6S-04 St. Paul, MN 55144-1000

3

MATERIAL SAFETY DATA SHEET 3M

3M Center

St. Paul, Minnesota

55144-1000

1-800-364-3577 or (612) 737-6501 (24 hours)

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DIVISION: SPECIALTY CHEMICALS DIVISION

TRADE NAME:

FC-203CF LIGHT WATER(TM) Brand Aqueous Film Forming Foam

ID NUMBER/U.P.C.:

ISSUED: November 05, 1997 SUPERSEDES: February 19, 1997

DOCUMENT: 10-4322-3

| 1. INGREDIENT | C.A.S. NO, | | | |
|---|-------------|------|--------|--|
| WATER | 7732-18-5 | 69.0 | - 71.0 | |
| DIETHYLENE GLYCOL BUTYL ETHERAMPHOTERIC FLUOROALKYLAMIDE DERIVATIVE | 112-34-5 | | 20.0 | |
| +(5803P) | TradeSecret | 1 | - 5 | |
| ALKYL SULFATE SALTS(2) +(5805F, 5806P) | TradeSecret | 1.0 | - 5.0 | |
| TRIETHANOLAMINE | 102-71-6 | 0.5 | - 1.5 | |
| +(5804P) | TradeSecret | 0.5 | - 1.5 | |
| TOLYL TRIÁZOLE | 29385-43-1 | | 0.05 | |

New Jersey Trade Secret Registry Number (EIN) 04499600-+

This product contains the following toxic chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR Part 372:

DIETHYLENE GLYCOL BUTYL ETHER

| MSDS: FC-203CF LIGHT WATER(TM) Brand Aqueous Film Forming Foam November 05, 1997 | PAGE | |
|--|------------|----|
| | | •• |
| 2, PHYSICAL DATA | | |
| | | |
| BOILING POINT: | | |
| VAPOR PRESSURE:, | | |
| VAPOR DENSITY: ca. 0.77 Air=1 Calc @ 20C | | |
| EVAPORATION RATE: < 1 BUOAc=1 | | |
| SOLUBILITY IN WATER: Miscible | | |
| SPECIFIC GRAVITY: 1.0 Water=1 PERCENT VOLATILE: 90 % by wt | | |
| pH: | | |
| VISCOSITY: N/D | | |
| MELTING POINT: | | |
| APPEARANCE AND ODOR: Clear, amber colored liquid. | | |
| *************************************** | - . | |
| 3. FIRE AND EXPLOSION HAZARD DATA | | |
| | | |
| FLASH POINT: None (Setaflash CC) | | |
| FLAMMABLE LIMITS - LEL: N/A | | |
| FLAMMABLE LIMITS - UEL: N/A AUTOIGNITION TEMPERATURE: N/A | | |
| AUTOIGNITION TEPFERATURE N/A | | |
| EXTINGUISHING MEDIA: | | |
| Product is a fire-extinguishing agent. | | |
| SPECIAL FIRE FIGHTING PROCEDURES: | | |
| Not applicable | | |
| MANAGERAL ETDE AND EVELOCION HAZADDE. | | |
| UNUSUAL FIRE AND EXPLOSION HAZARDS: See Hazardous Decomposition section for products of combustion. | | |
| Dee Hazar dodd boddingaartaan ara allan i ar y allan ar | | |
| *************************************** | | |
| 4. REACTIVITY DATA | | |
| 4, REMUTIVITI DATA | | |
| | | |
| STABILITY: Stable | | |
| INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID: Not applicable. | | |
| HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur. | | |
| | | |
| | | |
| | | |

| MSDS: FC-203CF LIGHT WATER(TM) Brand Aqueous Film Forming Foam November 05, 1997 | PAGE | 3 |
|---|------|---|
| 4. REACTIVITY DATA (continued) | | |
| HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide and Carbon Dioxide, Oxides of Nitrogen, Oxides of Sulfur, Hydrogen Fluoride | | |
| Thermal decomposition of usage concentrations does not present a hazard. | | |
| 5. ENVIRONMENTAL INFORMATION | | |

SPILL RESPONSE:

Observe precautions from other sections. Ventilate area. Contain spill, Cover with absorbent material. Collect spilled material. Clean up residue with water. Place in an approved metal container. Seal the container.

RECOMMENDED DISPOSAL:

Discharge spent solutions to a wastewater treatment system. discharge rate if foaming occurs. Large quantities may adversely affect biological wastewater treatment systems. Incinerate in an industrial or commercial facility in the presence of a combustible material. Combustion products will include HF.

ENVIRONMENTAL DATA:

A Product Environmental Data Sheet (PED) is available.

5-Day Biochemical Oxygen Demand (BOD5): 0.35 g/g; 20-Day Biochemical Oxygen Demand (BOD20): 0.75 g/g; 20-Day BOD/COD: 0.96; Chemical Oxygen Demand (COD): 0.75 g/g; 96-Hr LC50, Fathead minnow (Pimephales promelas): >1,000 mg/L; 48-Hr EC50, Water flea, (Daphnia magna): >1,000 mg/L; 96-Hr EC50, Algae (Selenastrum capricornutum): 143 mg/L (130-156); 30-Min EC50, Photobacterium phosphoreum (Microtox System): 280 mg/L (260-300); 3-Hr, 20C EC50, Activated Sludge Respiration (OECD Method #209): >1,000 mg/L.

REGULATORY INFORMATION:

Volatile Organic Compounds: 200 gms/liter South Coast Air Quality Mgmt Dist Method Calc. @ 20 C.. VOC Less H2O & Exempt Solvents: N/A.

Since regulations vary, consult applicable regulations or authorities before disposal. In the event of an uncontrolled release of this material, the user should determine if the release qualifies as a reportable quantity. U.S. EPA Hazardous Waste Number = None (Not U.S. EPA Hazardous).

The components of this product are in compliance with the chemical registration requirements of: TSCA, EINECS, CDSL, AICS, MITI.

| MSDS: FC-203CF LIGHT WATER(TM) Brand Aqueous Film Forming Foam November 05, 1997 | PAGE | |
|---|-----------|--|
| 5. ENVIRONMENTAL INFORMATION (continued) | | |
| EPCRA HAZARD CLASS: FIRE HAZARD: No PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: | Yes | |
| 6. SUGGESTED FIRST AID | | |
| EYE CONTACT: Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention. | | |
| SKIN CONTACT: Flush skin with large amounts of water. If irritation persists, get medical attention. | t | |
| INHALATION: If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician. | | |
| IF SWALLOWED: Drink two glasses of water. Call a physician. | | |
| 7. PRECAUTIONARY INFORMATION | | |
| EYE PROTECTION: Avoid eye contact with vapor, spray, or mist. Wear vented goggles | | |
| SKIN PROTECTION: Avoid skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) arrecommended: butyl rubber. | e | |
| RECOMMENDED VENTILATION: Use with adequate dilution ventilation. | | |
| RESPIRATORY PROTECTION: Avoid breathing of vapors, mists or spray. Select one of the following NIOSH approved respirators based on airborne concentrati of contaminants and in accordance with OSHA regulations: Half-mas organic vapor respirator with dust/mist prefilter. | .on :k | |
| PHEVENTION OF ACCIDENTAL INGESTION: | | |

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Wash hands after handling and before eating.

PAGE

MSDS: FC-203CF LIGHT WATER(TM) Brand Aqueous Film Forming Foam PAGE 5 November 05, 1997 7. PRECAUTIONARY INFORMATION (continued) RECOMMENDED STORAGE: Store away from heat. Keep container closed when not in use. FIRE AND EXPLOSION AVOIDANCE: Not applicable. HMIS HAZARD RATINGS: HEALTH: 2 FLAMMABILITY: 0 REACTIVITY: 0 PERSONAL PROTECTION: X (See precautions, section 7.) EXPOSURE LIMITS VALUE UNIT TYPE AUTH SKIN* INGREDIENT NONE NONE NONE NONE 35 PPM TWA CMRG WATER......... DIETHYLENE GLYCOL BUTYL ETHER...... AMPHOTERIC FLUOROALKYLAMIDE NONE NONE NONE DERIVATIVE +(5803P)..... ALKYL SULFATE SALTS(2) +(5805P, NONE NONE NONE 5806P)..... 5 MG/M3 TWA ACGIH TRIETHANOLAMINE..... PERFLUOROALKYL SULFONATE SALTS(5) ЗМ TWA Υ +(5804P)..... 0.1 MG/M3 NONE NONE NONE NONE TOLYL TRIAZOLE..... * SKIN NOTATION: Listed substances indicated with 'Y' under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption. SOURCE OF EXPOSURE LIMIT DATA: - ACGIH: American Conference of Governmental Industrial Hygienists 3M Recommended Exposure Guidelines - CMRG: Chemical Manufacturer Recommended Exposure Guidelines - NONE: None Established 8. HEALTH HAZARD DATA

EYE CONTACT:

Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

SKIN CONTACT:

Moderate Skin Irritation (after prolonged or repeated contact): signs/symptoms can include redness, swelling, itching, and dryness.

Prolonged or repeated exposure may cause:

May be absorbed through the skin in harmful amounts.

| | SDS: FC-203CF LIGHT WATER(ovember 05, 1997 | IW) RESUG Addisons LITH LOLHING LOSH | PAGE | 6 |
|---|--|--------------------------------------|------|---|
| 0 | | | | |
| _ | 8. HEALTH HAZARD DATA | (continued) | | · |

INHALATION:

Single overexposure, above recommended guidelines, may cause:

Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

Prolonged or repeated overexposure, above recommended guidelines, may cause:

Blood disorders: signs/symptoms can include prolonged weakness and fatigue.

Bone Marrow Depression: signs/symptoms can include prolonged weakness and fatigue.

Kidney Effects: signs/symptoms can include reduced urine volume, blood in urine and back pain.

Liver Effects: signs/symptoms can include yellow skin(jaundice) and tenderness of upper abdomen.

Pulmonary Edema: signs/symptoms can include coughing, congestion, difficulty breathing, which can result in respiratory failure and death.

IF SWALLOWED:

Ingestion is not a likely route of exposure to this product.

OTHER HEALTH HAZARD INFORMATION:

This product is not known to contain any substances regulated under California Proposition 65.

A 3M Product Toxicity Summary Sheet is available.

SECTION CHANGE DATES

HEALTH HAZARD DATA SECTION CHANGED SINCE February 19, 1997 ISSUE

MSDS: FC-203CF LIGHT WATER(TM) Brand Aqueous Film Forming Foam November 05, 1997

PAGE 7

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MATERIAL SAFETY DATA SHEET

CHEMGUARD 3% AFFF C-303

Revision Date: 1/25/2006

1. PRODUCT IDENTIFICATION

Chemical Family: Surfactant mixture; fire fighting foam concentrate

Aqueous Film Forming Foam

Product name: Chemguard 3% AFFF C-303

Manufacturer: Chemguard, Inc.

204 South 6th Ave. Mansfield, TX 76063

emergency phone: 817-473-9964

2. COMPOSITION / INFORMATION ON INGREDIENTS

| | | ACGIH/ | PPM | OSHA/PPM | |
|---------------------|------------------------------------|--------------|-------------|------------|-------------|
| CAS NO. | Common Name | <u>TWA</u> | <u>STEL</u> | <u>PEL</u> | % by wt |
| 7732-18-5 | water | | | | 85% - 90% |
| 57018-52-7 | propylene glycol t-butyl ether | not establis | hed | | 2% - 4% |
| 7487-88-9 | magnesium sulfate | N/A | N/A | N/A | 1% - 2% |
| proprietary mixture | proprietary hydrocarbon surfactant | N/A | N/A | N/A | proprietary |
| proprietary mixture | proprietary fluorosurfactant | N/A | N/A | N/A | proprietary |

3. HAZARDS IDENTIFICATION

Routes of entry: Dermal, inhalation and ingestion

Potential Health Effects: May cause skin and eye irritation.

Carcinogenicity: Not a carcinogen.

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Call a physician.

Inhalation: Remove to fresh air.

Skin: Rinse with water. Wash with soap and water. Contaminated clothing should be washed

before re-use.

Eyes: Rinse with water. Call a physician.

5. FIRE FIGHTING MEASURES

Flash Point: >150°F
Flammable Limits in air (lower % by volume): not evaluated
Flammable Limits in air (upper % by volume): not evaluated
Auto-ignition Temperature: not evaluated

General Hazards: None known.

Fire Fighting Equipment: Self contained breathing apparatus

Fire Extinguishing Media: Water, Foam, Carbon Dioxide, Dry Chemical, Halon

Fire and Explosion Hazards: Decomposition products may be toxic. Hazardous Combustion Products: oxides of nitrogen, sulfur and carbon

6. ACCIDENTAL RELEASE

Contain spills. Vacuum or pump into storage containers, absorb smaller quantities with absorbent materials, and dispose of properly. Washing area with water will create large amounts of foam.

Dispose of released and contained material in accordance with local, state, and federal regulations. Release to local waste treatment plant only with permission.

7. HANDLING AND STORAGE

Store in original container, or appropriate end-use device. Store at temperatures of 35 - 120 degrees F. If the material freezes, it may be thawed without loss of performance.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eye Protection: Wear side-shield safety glasses.

Skin Protection: Wear latex gloves.

Respiratory Protection: Use organic vapor respirator if needed.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: 205° - 212°F

Melting Point: 30° F
Specific Gravity: 1.012 g/ml
Vapor Pressure (mm Hg): N/A
pH 7.0 - 8.5

pH 7.0 - 8.9
Flash Point (PMCC): >150°F
Vapor Density (air = 1) N/A
Solubility in water: 100%

Appearance: clear amber liquid Odor: slight solvent odor

10. STABILITY AND REACTIVITY

Stability: Stable

Incompatibility: Strong oxidizers

Hazardous Polymerization: Will not occur.

Decomposition Products: Oxides of nitrogen, sulfur, carbon.

11. TOXICOLOGICAL INFORMATION

Eye Irritation: (Rabbits) mild irritant Skin Irritation: (Rabbits) minimal irritant

Inhalation Toxicity: not evaluated Sensitization: not evaluated Teratology: not evaluated Mutagenicity: not evaluated Reproduction: not evaluated Acute Oral Effects (Rats): not evaluated

12. ECOLOGICAL INFORMATION

| | CONCENTRATE | SOLUTION (AS USED) |
|------------------------------------|--------------------|--------------------|
| Chemical Oxygen Demand: | 210,000 mg/l | 6,300 mg/l |
| Biological Oxygen Demand (20 day): | 79,800 mg/l | 2,394 mg/l |
| Biodegradability (B.O.D./C.O.D.) | 38% | 38% |
| Total Organic Carbon: | 33,600 mg/l | 1008 mg/l |
| LC50 (96 hour pimephales promelas) | 233 ppm | 7767 ppm |
| LC50 (48 hour, daphnia magna) | 1110 ppm | 37,000 ppm |

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local, state, and federal regulations. Discharge to waste treatment plants only with permission. Anti-foam agents may be used to reduce foaming in waste streams.

14. TRANSPORTATION INFORMATION

Department of Transportation proper shipping name: not regulated

15. REGULATORY INFORMATION

All ingredients are on the TSCA inventory.

No components are reportable under SARA Title III, sec. 313

No components are priority pollutants listed under the U.S. Clean Water Act Section 307 (2)(1)

Priority Pollutant List (40 CFR 401.15).

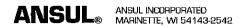
No components are reportable under CERCLA.

16. OTHER INFORMATION

| NFPA Hazard Ratings | | HMIS Identification System |
|---------------------|-------------------------------|----------------------------|
| 1 | Health Hazard Rating | 1 |
| 1 | Flammability Rating | 1 |
| 0 | Instability/Reactivity Rating | 0 |

CHANGE LOG:

Revision 2 - Revision date changed.



IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1. Identification of the preparation

Product Name: "SILV-EX Foam Concentrate"

Chemical Name: N/A – This is a mixture/preparation.

CAS No.: N/A – This is a mixture/preparation.

Chemical Formula: N/A – This is a mixture/preparation.

EINECS Number: 1.2. Use of the preparation

The intended or recommended use of this preparation is as a FIRE EXTINGUISHING AGENT.

N/A - This is a mixture/preparation.

1.3. Company identification

Manufacturer/Supplier: ANSUL INCORPORATED

Address: One Stanton Street, Marinette, WI 54143-2542

Prepared by: Safety and Health Department

Phone: 715-735-7411
Internet/Home Page: http://www.ansul.com
Date of Issue: September, 2003

1.4. Emergency telephone

CHEMTREC 800-424-9300 or 703-527-3887

2. COMPOSITION/INFORMATION ON INGREDIENTS

2.1. Ingredient Name: Proprietary mixture consisting of sodium and ammonium salts of fatty alcohol ether sulfates

(C8-C18), higher alcohols, and water.

Not otherwise specified.

EINECS Number: N/A – This is a mixture/preparation.

Concentration, Wt %: >70 %.

Hazard Identification: See Heading 3.

Ingredient Name: Diethylene Glycol Monobutyl Ether (a).

Chemical Formula: C₄H₉O(CH₂CH₂O)₂H.

CAS No.: 112-34-5. EINECS Number: 203-961-6. Concentration, Wt %: 18 %.

Hazard Identification: See Heading 3.

Ingredient Name: Ethanol (Ethyl Alcohol).

Chemical Formula: CH_3CH_2OH . CAS No.: 64-17-5. EINECS Number: 200-578-6

Concentration, Wt %: 8 %.

Hazard Identification: See Heading 3.

(a) This chemical is subject to reporting requirements of SARA Title III Section 313 and 40 CFR Section 372.

SILV-EX (Continued) Page 2

HAZARDS IDENTIFICATION

FOR HUMANS:

Product:

EU Classification: Irritant - Xi; Flammable - F.

R Phrases: Highly flammable. 36 Irritating to eyes.

2

Keep out of the reach of children. S Phrases 7 Keep container tightly closed.

16 Keep away from sources of ignition - No smoking.

24 Avoid contact with skin.

26 In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

Components:

Diethylene Glycol Monobutyl Ether:

EU Classification: Irritant - Xi. R Phrases: 36 Irritating to eyes.

26

S Phrases: 2 Keep out of the reach of children.

24 Avoid contact with skin.

In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

Ethanol (Ethyl Alcohol):

Flammable - F. **EU Classification:** R Phrases: 11 Highly flammable.

Keep out of the reach of children. S Phrases; 2 7

Keep container tightly closed. Keep away from sources of ignition - No smoking. 16

Limit Values for Exposure:

Diethylene Glycol Monobutyl Ether:

OSHA PEL (General Industry) 8 hour TWA: None established.

MAK (DE) Limit value: 100 mg/m³.

Short term exposure limit value

(8 times, 5 minutes): 200 mg/m³.

Ethanol (Ethyl Alcohol):

ACGIH TLV-TWA: 1000 ppm.

OSHA PEL (General Industry) 8 hour TWA: 1000 ppm (1900 mg/m³).

Neither this preparation nor the substances contained in it have been listed as carcinogenic by National Toxicology Program, I.A.R.C., or OSHA.

AS PART OF GOOD INDUSTRIAL AND PERSONAL HYGIENE AND SAFETY PROCEDURE, avoid all unnecessary exposure to the chemical substance and ensure prompt removal from skin, eyes, and clothing.

SIGNS AND SYMPTOMS:

Acute Exposure:

Eye Contact: May cause mild to moderate transient irritation.

Skin Contact: May cause mild transient irritation and/or dermatitis.

Inhalation: Not an expected route of entry.

Irritating to mucous membranes. Large oral doses could produce narcosis. Ingestion:

Possible problems with kidneys, lungs, gastrointestinal, spleen, behavioral (sleep, motor, Chronic Overexposure:

headache), lungs, gastrointestinal, liver, endocrine, blood, developmental.

Diethylene Glycol Monobutyl Ether did not interfere with reproduction. However, body weights of newborn animals were decreased.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Diseases of the kidney and liver.

FOR ENVIRONMENT:

As much as possible, keep from being washed into surface waters.

FIRST AID MEASURES 4.

Wash with water for a minimum of 15 minutes. If irritation persists, seek medical attention. Eye Contact:

Skin Contact: Wash affected area with soap and water. If irritation persists, seek medical attention.

Inhalation: Remove from exposure. If irritation persists, seek medical attention.

Ingestion: Dilute by drinking large quantities of water. SILV-EX (Continued) Page 3

FIRE-FIGHTING MEASURES

This preparation is an extinguishing media.

There are NO extinguishing media which must not be used for safety reasons.

NO special protective equipment is needed for fire-fighters.

ACCIDENTAL RELEASE MEASURES 6.

For personal protection: Prevent skin and eye contact, see Heading 8.

Clean up: Use an absorbent material such as diatomaceous earth, sawdust, etc., and sweep up, see Heading 13.

As much as possible, keep from being washed into surface waters.

HANDLING AND STORAGE

7.1. Handling

Care should be taken in handling all chemical substances and preparations.

See incompatibility information in Heading 10.

7.2. Storage

NO special conditions are needed for safe storage.

See incompatibility information in Heading 10.

Store in original container. Keep tightly closed until used.

As much as possible, keep from being washed into surface waters.

7.3. Specific use

The intended or recommended use of this preparation is as a FIRE EXTINGUISHING AGENT.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

8.1. Exposure limit values

Limit Values for Exposure:

Diethylene Glycol Monobutyl Ether:

OSHA PEL (General Industry) 8 hour TWA: None established.

MAK (DE) Limit value:

100 mg/m³.

Short term exposure limit value

(8 times, 5 minutes):

200 mg/m³.

Ethanol (Ethyl Alcohol):

ACGIH TLV-TWA:

1000 ppm.

OSHA PEL (General Industry) 8 hour TWA: 1000 ppm (1900 mg/m³).

8.2. Exposure controls

8.2.1. Occupational exposure controls

8.2.1.1. Respiratory protection

None expected to be needed. Mechanical ventilation is recommended.

8.2.1.2. Hand protection

Use chemical resistant gloves when handling the preparation.

8.2.1.3. Eye protection

Chemical goggles are recommended.

8.2.1.4. Skin protection

Standard fire fighting safety equipment should provide all protection which is necessary.

8.2.2. Environmental exposure controls

As much as possible, keep from being washed into surface waters.

SILV-EX (Continued) Page 4

PHYSICAL AND CHEMICAL PROPERTIES 9.

9.1. General information

Appearance: Pale straw yellow, clear liquid.

Odor: Mild, sweet odor.

9.2. Important health, safety, and environmental information

7.0-8.5. pH:

Boiling point/boiling range: 65-70 °C (initial boiling).

Flash point: 40 °C PMCC. Flammability (solid/gas): Flammable. Explosive properties: Not explosive. Oxidizing properties: Not an oxidizer. Vapor Pressure: Not determined.

Relative Density (Water = 1): About 1.

Solubility:

Completely soluble. - Water solubility: Not soluble. - Fat solubility: Not determined. Partition coefficient, n-octanol/water:

2-10 Cs. Viscosity:

Vapor density (Air = 1): Not determined, but <1.

Evaporation rate

(Butyl acetate = 1): Approx. 0.005.

9.3. Other information

Auto-ignition temperature: Does not ignite.

10. STABILITY AND REACTIVITY

10.1. Conditions to avoid

There are NO known conditions such as temperature, pressure, light, shock, etc., which may cause a dangerous reaction.

10.2. Materials to avoid

Reactive metals, electrically energized equipment, any material reactive with water, or strong oxidizers.

10.3. Hazardous decomposition products

Normally stable.

Hazardous polymerization will NOT occur.

Not known, however, carbon monoxide and oxides of nitrogen and sulfur may be produced during fire conditions.

Hydrogen sulfide may be produced during bacterial decomposition under anaerobic conditions.

TOXICOLOGICAL INFORMATION 11.

The toxicity of the product mixture has not been determined. Product:

Components:

Diethylene glycol monobutyl ether:

Toxicity Data: Oral (rat) LD50 5,660 mg/kg. [Dow Chemical Co.]. 9,623 mg/kg. [EINICS ESIS]. Oral (rat) LD50

Dermal (rabbit) LD₅₀ 4,000 mg/kg. [Dow Chemical Co.]. 2,764 mg/kg. Dermal (rabbit) LD₅₀ [EINICS ESIS].

20 mg/24 hrs. Moderate. [EINICS ESIS]. Irritation Data: Eye (rabbit)

Eye (rabbit) Draize test Highly irritating. [EINICS ESIS].

Skin (rabbit) 1000 mg/kg/day Moderate with edema, fissuring, and leathery appearance.

(EINICS ESIS).

Target organs: Kidney, blood, liver, lungs, gastrointestinal, spleen.

Ethanol:

Toxicity Data:

7,060 mg/kg Oral (rat) LD₅₀ Inhalation (rat) LC50 20,000 ppm/10 hrs

400 mg open Mild Irritation Data: Skin (rabbit) Eye (rabbit) 500 mg/24 hrs Moderate

Target organs: Behavioral (sleep, motor, headache), lungs, gastrointestinal, liver, endocrine, blood, developmental.

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity

Components:

Diethylene glycol monobutyl ether:

LC₅₀ (96 hrs) 1,300 mg/L. Fish, Lepomis marcrochinus: 2,700 mg/L. LC₅₀ (24 hrs) Carrassius auratus: EC₅₀ (24 hrs) Daphnids, Daphnia magna: 3,184 mg/L. EC₅₀ (96 hrs) >100 mg/L. Algae, Scenedesmus subspicatus: Ethanol: LC₅₀ (24 hrs) 11,200 mg/L. Oncorhynchus mykiss:

Fish, Oncorhynchus mykiss: LC_{50} (24 hrs) 11,200 mg/L. Alburnus alburnus: LC_{50} (96 hrs) 11,000 mg/L. Daphnids, Daphnia magna: EC_{50} (24 hrs) 10,800 mg/L.

12.2. Mobility

Diethylene glycol monobutyl ether:

Should not partition from a water column to organic matter contained in sediments and suspended solids.

Ethanol:

Its low octanol/water partition coefficient indicates that its absorption to soil will be low.

12.3. Persistence and degradability

Diethylene glycol monobutyl ether:

Indirect photodegradation is about 50% in 3.5 hours.

Aerobic degradation with adapted activated sludge is 60% after 28 days.

COD = 2080 mg/g substance. BOD5 = 250 mg O₂/g substance.

Theoretical oxygen demand = 2.17 mg/mg.

Ethanol:

Indirect photodegradation is about 50 % in 6 hours.

Aerobic degradation with adapted activated sludge is 74% after 5 days.

COD = 1700 mg/g substance.

BOD5 = 0.8 kg/L.

12.4. Bioaccumulative potential

Diethylene glycol monobutyl ether:

Should not bioaccumulate. Estimated bioaccumulation factor (log BCF) = 0.46.

Ethanol:

Will not bloaccumulate.

12.5. Other adverse effects

Ozone depletion potential:
Photochemical ozone creation potential:
None.
Global warming potential:
None.

13. DISPOSAL CONSIDERATIONS

As much as possible, keep from being washed into surface waters.

Dispose of in compliance with national, regional, and local provisions that may be in force.

14. TRANSPORT INFORMATION

Hazard Class or Division: Not hazardous.

For additional transport information, contact Ansul Incorporated.

As much as possible, keep from being washed into surface waters.

SILV-EX (Continued) Page 6

15. REGULATORY INFORMATION

EU Classification: Irritant – Xi; Flammable – F.

R Phrases: 11 Highly flammable.

36 Irritating to eyes.

S Phrases: 2 Keep out of the reach of children.

7 Keep container tightly closed.

16 Keep away from sources of ignition - No smoking.

24 Avoid contact with skin.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Limit Values for Exposure:

Diethylene Glycol Monobutyl Ether:

OSHA PEL (General Industry) 8 hour TWA: None established.

MAK (DE) Limit value:

100 mg/m³.

Short term exposure limit value

(8 times, 5 minutes):

200 mg/m³.

Ethanol (Ethyl Alcohol):

ACGIH TLV-TWA: 1000 ppm.

OSHA PEL (General Industry) 8 hour TWA: 1000 ppm (1900 mg/m³).

EINECS Status:

All components are included in EINECS inventories or are exempt from

listing.

EPA TSCA Status

All components are included in TSCA inventories or are exempt from listing.

Canadian DSL (Domestic Substances List): All components are included in the DSL or are exempt from listing.

Environmental restrictions:

None are known.

Restrictions on Marketing and Use:

None are known.

Refer to any other national measures that may be relevant.

16. OTHER INFORMATION

(HMIS) HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATINGS:

HEALTH: 1

FLAMMABILITY: 2

Severe Hazard
 Serious Hazard

REACTIVITY:

Moderate Hazard

1. Slight Hazard

0. Minimal Hazard

(WHMIS) CANADIAN WORKPLACE HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATINGS:

This product is rated D2B - Product may irritate eyes, skin or mucous membranes.

Format is from directive 2001/58/EC.

EINECS data is from http://exb.jrc.it/existing-chemicals/

0

Data used to compile the data sheet is from Ansul Material Safety Data Sheet, February, 2002.

The EU Classification has been changed in accordance with Directive 1999/45/EC and information in the EINICS ESIS files (Existing Substances Information System).

Toxicological information added from the EINICS ESIS (Existing Substances Information System) and from Dow Chemical Company.

A rating under WHMIS has been added, following the Canadian guidelines.

Limit values for exposure for diethylene glycol monobutyl ether were changed, based on EINICS ESIS data.

17. DISCLAIMER

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT, BUT DOES NOT PURPORT TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. ANSUL SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.

N/A = Not Applicable

NDA = No Data Available

MSDS available at http://www.ansul.com

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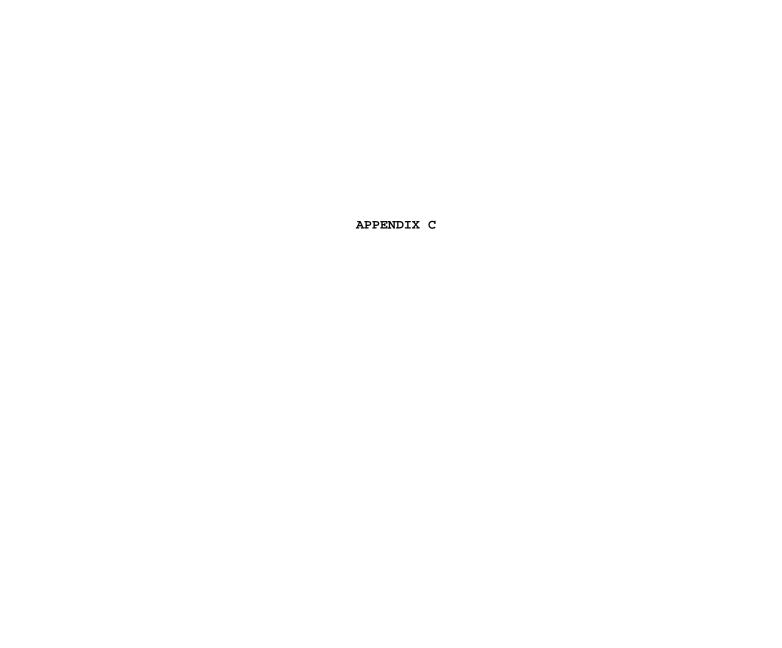
ANSUL INCORPORATED, DNE STANTON STREET, MARINETTE, WI 54143-2542

715-735-7411

Form No. F-9749-2

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LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at $(800)\ 332-4345$ or $(574)\ 233-4777$.

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STATE CERTIFICATION LIST

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| Indiana Chemistry | C-71-01 | South Carolina | 95005 |
| Indiana Microbiology | M-76-07 | South Dakota | IN00035 |
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| Louisiana* | LA160002 | Utah* | IN00035 |
| Maine | IN00035 | Vermont | VT-8775 |
| Maryland | 209 | Virginia* | 460275 |
| Massachusetts | M-IN035 | Washington | C837 |
| Michigan | 9926 | West Virginia | 9927 C |
| Minnesota* | 018-999-338 | Wisconsin | 999766900 |
| Mississippi | IN035 | Wyoming | IN035 |
| Missouri | 880 | | |

^{*}NELAP/TNI Recognized Accreditation Bodies

Revision date: 04/14/2016



NELAC NARRATIVE PAGE

Client: United States Army Corp of Engineers Report #: 372298NP

Eurofins Eaton Analytical, Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAC standards, unless otherwise noted.

EEA contact person: Jessie Brasch

NELAP requires complete reporting of deviations from method requirements, regardless of the suspected impact on the data. Quality control failures not reported within the report summary are noted here.

Note: There were quality control issues with this report for Method 537. See Report Summary.

There were no additional quality control failures.

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gessie Braselo

Analytical Services Manager

09/26/2016

Authorized Signature

Title

Date



110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207 1 800 332 4345

Laboratory Report

372298

Client: United States Army Corp of Engineers Report:

Attn: Scott Forbes Priority: Standard Written

10 South Howard St Status: Final

9250-V PWS ID: Not Supplied

Baltimore, MD 21201 Lab ELAP #: 11398

| | Sample Information | | | | | | | |
|------------|-------------------------|--------|--------------------------|------------------|-------------------------|--|--|--|
| EEA ID# | Client ID | Method | Collected Date / Time | Collected By: | Received Date / Time | | | |
| 3541652 | FDFT-MW-1-Sept-2016 | 537 | 09/08/16 10:48 | Client | 09/09/16 08:45 | | | |
| 3541653 | FDFT-MW-2-Sept-2016 | 537 | 09/08/16 13:50 | Client | 09/09/16 08:45 | | | |
| 3541656 | FDFT-MW-3-Sept-2016 | 537 | 09/08/16 15:45 | Client | 09/09/16 08:45 | | | |
| 3541657 | FTB | 537 | 09/08/16 13:50 | Client | 09/09/16 08:45 | | | |
| 3541658 | FDFT-MW-4-Sept-2016 | 537 | 09/08/16 17:24 | Client | 09/09/16 08:45 | | | |
| 3541659 | FDFT-MW-4-Sept-2016 Dup | 537 | 09/08/16 08:00 | Client | 09/09/16 08:45 | | | |

Report Summary

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Jessie Brasch at (574) 233-4777.

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Jussie Brasel

Analytical Services Manager

09/26/2016

Date

Client Name: United States Army Corp of Engineers

Report #: 372298

Authorized Signature

Page 1 of 4

Title

Client Name: United States Army Corp of Engineers Report #: 372298

Sampling Point: FDFT-MW-1-Sept-2016 PWS ID: Not Supplied

| | EEA Methods | | | | | | | | |
|-----------------|---|--------|--------------|------|--------|-------|---------------------|------------------|------------|
| Analyte ID # | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) \$ | 537 | | 2.0 | 100 | ng/L | 09/13/16 08:13 | 09/14/16 03:52 | 3541652 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) \$ | 537 | | 2.0 | 770 | ng/L | 09/13/16 08:13 | 09/14/16 23:53 | 3541652 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) \$ | 537 | | 2.0 | 1200 | ng/L | 09/13/16 08:13 | 09/14/16 23:53 | 3541652 |
| 375-95-1 | Perfluorononanoic acid (PFNA) \$ | 537 | | 2.0 | 430 | ng/L | 09/13/16 08:13 | 09/14/16 23:53 | 3541652 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 2.0 | 1500 | ng/L | 09/13/16 08:13 | 09/14/16 23:53 | 3541652 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | | 2.0 | 1400 | ng/L | 09/13/16 08:13 | 09/14/16 23:53 | 3541652 |

^{\$} The state of origin does not offer certification for this parameter.

Sampling Point: FDFT-MW-2-Sept-2016 PWS ID: Not Supplied

| | | ı | EEA Met | hods | | | | | |
|-----------------|---|--------|--------------|------|--------|-------|---------------------|------------------|------------|
| Analyte ID # | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) \$ | 537 | | 2.0 | 96 | ng/L | 09/13/16 08:13 | 09/14/16 04:09 | 3541653 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) \$ | 537 | | 2.0 | 210 | ng/L | 09/13/16 08:13 | 09/15/16 00:09 | 3541653 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) \$ | 537 | | 2.0 | 3700 | ng/L | 09/13/16 08:13 | 09/15/16 00:09 | 3541653 |
| 375-95-1 | Perfluorononanoic acid (PFNA) \$ | 537 | | 2.0 | 240 | ng/L | 09/13/16 08:13 | 09/15/16 00:09 | 3541653 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 2.0 | 3900 | ng/L | 09/13/16 08:13 | 09/15/16 00:09 | 3541653 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | | 2.0 | 1500 | ng/L | 09/13/16 08:13 | 09/15/16 00:09 | 3541653 |

^{\$} The state of origin does not offer certification for this parameter.

Sampling Point: FDFT-MW-3-Sept-2016 PWS ID: Not Supplied

| | | | EEA Met | hods | | | | | |
|-----------------|---|--------|--------------|------|--------|-------|---------------------|------------------|------------|
| Analyte ID # | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) \$ | 537 | | 2.0 | 1100 | ng/L | 09/13/16 08:13 | 09/15/16 00:26 | 3541656 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) \$ | 537 | | 2.0 | 1500 | ng/L | 09/13/16 08:13 | 09/15/16 00:26 | 3541656 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) \$ | 537 | | 2.0 | 3500 | ng/L | 09/13/16 08:13 | 09/15/16 00:26 | 3541656 |
| 375-95-1 | Perfluorononanoic acid (PFNA) \$ | 537 | | 2.0 | 1300 | ng/L | 09/13/16 08:13 | 09/15/16 00:26 | 3541656 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 2.0 | 4800 | ng/L | 09/13/16 08:13 | 09/15/16 00:26 | 3541656 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | | 2.0 | 2100 | ng/L | 09/13/16 08:13 | 09/15/16 00:26 | 3541656 |

^{\$} The state of origin does not offer certification for this parameter.

Client Name: United States Army Corp of Engineers Report #: 372298

Sampling Point: FTB PWS ID: Not Supplied

| | | I | EEA Met | hods | | | | | |
|-----------------|---|--------|--------------|------|--------|-------|---------------------|------------------|------------|
| Analyte ID # | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) \$ | 537 | | 2.0 | < 2.0 | ng/L | 09/13/16 08:13 | 09/14/16 05:16 | 3541657 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) \$ | 537 | | 2.0 | < 2.0 | ng/L | 09/13/16 08:13 | 09/14/16 05:16 | 3541657 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) \$ | 537 | | 2.0 | < 2.0 | ng/L | 09/13/16 08:13 | 09/14/16 05:16 | 3541657 |
| 375-95-1 | Perfluorononanoic acid (PFNA) \$ | 537 | | 2.0 | < 2.0 | ng/L | 09/13/16 08:13 | 09/14/16 05:16 | 3541657 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 2.0 | < 2.0 | ng/L | 09/13/16 08:13 | 09/14/16 05:16 | 3541657 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | | 2.0 | < 2.0 | ng/L | 09/13/16 08:13 | 09/14/16 05:16 | 3541657 |

^{\$} The state of origin does not offer certification for this parameter.

Sampling Point: FDFT-MW-4-Sept-2016 PWS ID: Not Supplied

| | | ı | EEA Met | hods | | | | | |
|-----------------|---|--------|--------------|------|--------|-------|---------------------|------------------|------------|
| Analyte ID # | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) \$ | 537 | | 2.0 | 130 | ng/L | 09/13/16 08:13 | 09/14/16 05:32 | 3541658 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) \$ | 537 | | 2.0 | 330 | ng/L | 09/13/16 08:13 | 09/15/16 00:43 | 3541658 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) \$ | 537 | | 2.0 | 430 | ng/L | 09/13/16 08:13 | 09/15/16 00:43 | 3541658 |
| 375-95-1 | Perfluorononanoic acid (PFNA) \$ | 537 | | 2.0 | 9.6 | ng/L | 09/13/16 08:13 | 09/14/16 05:32 | 3541658 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 2.0 | 4500 | ng/L | 09/13/16 08:13 | 09/15/16 00:43 | 3541658 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | | 2.0 | 150 | ng/L | 09/13/16 08:13 | 09/14/16 05:32 | 3541658 |

^{\$} The state of origin does not offer certification for this parameter.

Sampling Point: FDFT-MW-4-Sept-2016 Dup PWS ID: Not Supplied

| | | I | EEA Met | hods | | | | | |
|-----------------|---|--------|--------------|------|--------|-------|---------------------|------------------|------------|
| Analyte ID # | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) \$ | 537 | | 2.0 | 140 | ng/L | 09/13/16 08:13 | 09/14/16 05:49 | 3541659 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) \$ | 537 | | 2.0 | 340 | ng/L | 09/13/16 08:13 | 09/15/16 01:00 | 3541659 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) \$ | 537 | | 2.0 | 460 | ng/L | 09/13/16 08:13 | 09/15/16 01:00 | 3541659 |
| 375-95-1 | Perfluorononanoic acid (PFNA) \$ | 537 | | 2.0 | 9.0 | ng/L | 09/13/16 08:13 | 09/14/16 05:49 | 3541659 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 2.0 | 4600 | ng/L | 09/13/16 08:13 | 09/15/16 01:00 | 3541659 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | | 2.0 | 150 | ng/L | 09/13/16 08:13 | 09/14/16 05:49 | 3541659 |

^{\$} The state of origin does not offer certification for this parameter.

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

| Reg Limit Type: | MCL | SMCL | AL |
|-----------------|-----|------|-----|
| Symbol: | * | ٨ | l I |

Lab Definitions

Report #: 372298

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / **Laboratory Control Sample (LCS)** - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / **Laboratory Reagent Blank (LRB)** - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / **Field Reagent Blank (FRB)** - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample al6iquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / **Second Source Calibration Verification (SSCV)** - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

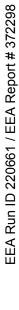
Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / **Surrogate Analyte (SUR)** - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.



| | | | South Bend, IN 46617 | | Order # | 1 - | |
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| Shaded area for EEA use only | | TS # CI SMG | STATE (sample origin) PRC | PROJECT NAME | #Od | ŀ | - |
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| | AM PM TEN | , | AM PM | 110 | |
| MATRIX CODES: | TURN-AROUND TIME (TAT) - SURCHARGES | | | X 600 4.8 | |
| DW-DRINKING WATER | SW = Standard Written: (15 working days) 0% | IV* = Immediate | IV* = Immediate Verbal: (3 working days) | ays) 100% | |
| RW-REAGENT WATER | RV* = Rush Verbal: (5 working days) 50% | IW* =Immediate | IW* =Immediate Written: (3 working days) | days) 125% Samples received unannounced with less | - |
| EW-EXPOSURE WATER | RW* = Rush Written: (5 working days) 75% | SP* = Weekend, Holiday | . Holiday | CALL than 48 hours holding time remaining may | - |
| SW-SURFACE WATER PW-POOL WATER | | STAT* = Less than 48 hours | an 48 hours | CALL CALL | |
| WW-WASTE WATER | * Please call, expedited service not available for all testing | | | 06-LO-F0435 Issue 5.0 Effective Date: 2016-01-20 | |
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Eurofins Eaton Analytical Run Log Run ID: 220661 Method: 537

| t ID Analysis Date Calibration File | 09/13/2016 22:34 091316M537b-PFC12.mdb | 09/13/2016 23:07 091316M537b-PFC12.mdb | 09/13/2016 23:41 091316M537b-PFC12.mdb | 09/14/2016 03:52 091316M537b-PFC12.mdb | 09/14/2016 04:09 091316M537b-PFC12.mdb | 09/14/2016 04:25 091316M537b-PFC12.mdb | 09/14/2016 04:42 091316M537b-PFC12.mdb | 09/14/2016 04:59 091316M537b-PFC12.mdb | 09/14/2016 05:16 091316M537b-PFC12.mdb | 09/14/2016 05:32 091316M537b-PFC12.mdb | 09/14/2016 05:49 091316M537b-PFC12.mdb | |
|-------------------------------------|--|--|--|--|--|--|--|--|--|--|--|-------|
| Instrument ID | S | ζ | S | ζ | ζ | S | ζ | ζ | ζ | ζ | S | ? |
| Matrix | SO | RW | RW | ďΜ | ďΜ | βW | βW | βW | RW | βW | DW | C |
| Sample Site | | | | FDFT-MW-1-Sept-2016 | FDFT-MW-2-Sept-2016 | FDFT-MW-2-Sept-2016 | FDFT-MW-2-Sept-2016 | FDFT-MW-3-Sept-2016 | FTB | FDFT-MW-4-Sept-2016 | FDFT-MW-4-Sept-2016 Dup | |
| Sample Id | 3543764 | 3543752 | 3543754 | 3541652 | 3541653 | 3541654 | 3541655 | 3541656 | 3541657 | 3541658 | 3541659 | 1 101 |
| Type | CCL | LRB | FBM | FS | FS | LFSML | LFSMDL | FS | FTB | FS | FS | |

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|----------------|--------------------------------------|--------|-----|---------------------|----------------|----------|---------|-------|---------------|--------------------|------|--------------|---------------|------------------|---|-----------|
| Sample Type | Analyte | Method | MRL | Client ID | Result Flag | Amount | Target | Units | % Recovery | Recovery Limits | RPD | RPD Limit | Dil Factor | Extracted | Analyzed | EEA D# |
| CCL | IS-PFOA-13C2 | 537 | ΑN | | | 8128.60 | 8128.6 | ng/L | 100 | 50 - 150 | I | | 1.0 | 09/06/2016 16:00 | 09/13/2016 22:34 | 3543764 |
| CCL | IS-PFOS-13C4 | 537 | N/A | | | 7134.95 | 7134.95 | ng/L | 100 | 50 - 150 | I | ı | 1.0 | 09/06/2016 16:00 | 09/13/2016 22:34 | 3543764 |
| CCL | SS-PFDA-13C2 | 537 | N/A | - | | 97.1467 | 100 | ng/L | 26 | 70 - 130 | I | 1 | 1.0 | 09/06/2016 16:00 | 09/13/2016 22:34 | 3543764 |
| CCL | SS-PFHxA-13C2 | 537 | N/A | | | 51.1297 | 20.0 | ng/L | 102 | 70 - 130 | ı | 1 | 1.0 | 09/06/2016 16:00 | 09/13/2016 22:34 | 3543764 |
| CCL | Perfluorobutanesulfonic acid (PFBS) | 537 | 2.0 | | | 1.6525 | 2.0 | ng/L | 83 | 50 - 150 | I | 1 | 1.0 | 09/06/2016 16:00 | 09/13/2016 22:34 | 3543764 |
| CCL | Perfluoroheptanoic acid (PFHpA) | 537 | 2.0 | | | 1.8997 | 2.0 | ng/L | 98 | 50 - 150 | ı | ı | 1.0 | 09/06/2016 16:00 | 09/13/2016 22:34 | 3543764 |
| CCL | Perfluorohexanesulfonic acid (PFHxS) | 537 | 2.0 | • | | 1.7229 | 2.0 | ng/L | 98 | 50 - 150 | I | 1 | 1.0 | 09/06/2016 16:00 | 09/06/2016 16:00 09/13/2016 22:34 | 3543764 |
| CCL | Perfluorononanoic acid (PFNA) | 537 | 2.0 | - | | 1.9425 | 2.0 | ng/L | 26 | 50 - 150 | l | ī | 1.0 | 09/06/2016 16:00 | 09/13/2016 22:34 | 3543764 |
| CCL | Perfluorooctane sulfonate (PFOS) | 537 | 2.0 | ••• | | 1.6746 | 2.0 | ng/L | 84 | 50 - 150 | I | ī | 1.0 | 09/06/2016 16:00 | 09/13/2016 22:34 | 3543764 |
| CCL | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | | | 1.9436 | 2.0 | ng/L | 26 | 50 - 150 | I | 1 | 1.0 | 09/06/2016 16:00 | 09/13/2016 22:34 | 3543764 |
| LRB | IS-PFOA-13C2 | 537 | N/A | - | | 8259.79 | 8128.6 | ng/L | 102 | 50 - 150 | i | i | 0.94 | 09/13/2016 08:13 | 09/13/2016 23:07 | 3543752 |
| LRB | IS-PFOS-13C4 | 537 | N/A | - | | 6564.48 | 7134.95 | ng/L | 92 | 50 - 150 | I | ı | 0.94 | 09/13/2016 08:13 | 09/13/2016 23:07 | 3543752 |
| LRB | SS-PFDA-13C2 | 537 | N/A | | | 96.5058 | 100 | ng/L | 103 | 70 - 130 | I | ı | 0.94 | 09/13/2016 08:13 | 09/13/2016 23:07 | 3543752 |
| LRB | SS-PFHxA-13C2 | 537 | N/A | - | | 47.2133 | 20.0 | ng/L | 100 | 70 - 130 | I | 1 | 0.94 | 09/13/2016 08:13 | 09/13/2016 23:07 | 3543752 |
| LRB | Perfluorobutanesulfonic acid (PFBS) | 537 | 2.0 | | v | 2.0 | | ng/L | 1 | 1 | I | ī | 0.94 | 09/13/2016 08:13 | 09/13/2016 23:07 | 3543752 |
| LRB | Perfluoroheptanoic acid (PFHpA) | 537 | 2.0 | - | ٧ | 2.0 | | ng/L | 1 | - | I | 1 | 0.94 | 09/13/2016 08:13 | 09/13/2016 23:07 | 3543752 |
| LRB | Perfluorohexanesulfonic acid (PFHxS) | 537 | 2.0 | - | ٧ | 2.0 | | ng/L | 1 | 1 | I | ı | 0.94 | 09/13/2016 08:13 | 09/13/2016 23:07 | 3543752 |
| LRB | Perfluorononanoic acid (PFNA) | 537 | 2.0 | - | ٧ | 2.0 | | ng/L | | - | I | 1 | 0.94 | 09/13/2016 08:13 | 09/13/2016 23:07 | 3543752 |
| LRB | Perfluorooctane sulfonate (PFOS) | 537 | 2.0 | | v | 2.0 | | ng/L | - | - | I | I | 0.94 | 09/13/2016 08:13 | 09/13/2016 23:07 | 3543752 |
| LRB | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | | ٧ | 2.0 | | ng/L | | - | i | i | 0.94 | 09/13/2016 08:13 | 09/13/2016 23:07 | 3543752 |
| FBM | IS-PFOA-13C2 | 537 | N/A | | | 8337.80 | 8128.6 | ng/L | 103 | 50 - 150 | ı | 1 | 1.0 | 09/13/2016 08:13 | 09/13/2016 23:41 | 3543754 |
| FBM | IS-PFOS-13C4 | 537 | N/A | • | | 6748.48 | 7134.95 | ng/L | 98 | 50 - 150 | I | 1 | 1.0 | 09/13/2016 08:13 | 09/13/2016 23:41 | 3543754 |
| FBM | SS-PFDA-13C2 | 537 | A/N | | | 108.1300 | 100 | ng/L | 108 | 70 - 130 | i | ī | 1.0 | 09/13/2016 08:13 | 09/13/2016 23:41 | 3543754 |
| FBM | SS-PFHxA-13C2 | 537 | N/A | | | 51.3039 | 50.0 | ng/L | 103 | 70 - 130 | I | ı | 1.0 | 09/13/2016 08:13 | 09/13/2016 23:41 | 3543754 |
| FBM | Perfluorobutanesulfonic acid (PFBS) | 537 | 2.0 | | | 102.6360 | 100 | ng/L | 103 | 70 - 130 | i | ī | 1.0 | 09/13/2016 08:13 | 09/13/2016 23:41 | 3543754 |
| FBM | Perfluoroheptanoic acid (PFHpA) | 537 | 2.0 | | | 101.1180 | 100 | ng/L | 101 | 70 - 130 | i | ı | 1.0 | 09/13/2016 08:13 | 09/13/2016 23:41 | 3543754 |
| FBM | Perfluorohexanesulfonic acid (PFHxS) | 537 | 2.0 | - | | 102.4000 | 100 | ng/L | 102 | 70 - 130 | i | Ī | 1.0 | 09/13/2016 08:13 | 09/13/2016 23:41 | 3543754 |
| FBM | Perfluorononanoic acid (PFNA) | 537 | 2.0 | | | 98.1199 | 100 | ng/L | 86 | 70 - 130 | ı | 1 | 1.0 | 09/13/2016 08:13 | 09/13/2016 23:41 | 3543754 |
| FBM | Perfluorooctane sulfonate (PFOS) | 537 | 2.0 | | | 97.8346 | 100 | ng/L | 86 | 70 - 130 | I | 1 | 1.0 | 09/13/2016 08:13 | 09/13/2016 23:41 | 3543754 |
| FBM | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | - | | 99.4424 | 100 | ng/L | 66 | 70 - 130 | I | 1 | 1.0 | 09/13/2016 08:13 | 09/13/2016 23:41 | 3543754 |
| FS | IS-PFOA-13C2 | 537 | N/A | FDFT-MW-1-Sept-2016 | | 1889.66 | 8128.6 | ng/L | 23 | 50 - 150 | I | i | 0.91 | 09/13/2016 08:13 | 09/14/2016 03:52 | 3541652 |
| FS | IS-PFOS-13C4 | 537 | A/N | FDFT-MW-1-Sept-2016 | | 5670.38 | 7134.95 | ng/L | 79 | 50 - 150 | I | i | 0.91 | 09/13/2016 08:13 | 09/14/2016 03:52 | 3541652 |
| FS | SS-PFDA-13C2 | 537 | N/A | FDFT-MW-1-Sept-2016 | | 422.2660 | 100 | ng/L | 464 | 70 - 130 | I | ı | 0.91 | 09/13/2016 08:13 | 09/14/2016 03:52 | 3541652 |
| FS | SS-PFHxA-13C2 | 537 | N/A | FDFT-MW-1-Sept-2016 | | 153.7830 | 20.0 | ng/L | 338 | 70 - 130 | I | ı | 0.91 | 09/13/2016 08:13 | 09/14/2016 03:52 | 3541652 |
| FS | Perfluorobutanesulfonic acid (PFBS) | 537 | 2.0 | FDFT-MW-1-Sept-2016 | | 100 | | ng/L | | 1 | i | i | 0.91 | 09/13/2016 08:13 | 09/14/2016 03:52 | 3541652 |
| FS | IS-PFOA-13C2 | 537 | N/A | FDFT-MW-2-Sept-2016 | | 4533.90 | 8128.6 | ng/L | 99 | 50 - 150 | i | ī | 6.0 | 09/13/2016 08:13 | 09/14/2016 04:09 | 3541653 |
| Pa SI Pa | IS-PFOS-13C4 | 537 | A/N | FDFT-MW-2-Sept-2016 | | 4494.31 | 7134.95 | ng/L | 63 | 50 - 150 | I | 1 | 6.0 | 09/13/2016 08:13 | 09/14/2016 04:09 | 3541653 |
| ဂ္ ge | SS-PFDA-13C2 | 537 | N/A | FDFT-MW-2-Sept-2016 | | 184.2180 | 100 | ng/L | 205 | 70 - 130 | ı | ī | 6.0 | 09/13/2016 08:13 | 09/14/2016 04:09 | 3541653 |
| က္ 10 | SS-PFHxA-13C2 | 537 | A/N | FDFT-MW-2-Sept-2016 | | 72.2102 | 20.0 | ng/L | 160 | 70 - 130 | ı | 1 | 6.0 | 09/13/2016 08:13 | 09/14/2016 04:09 3541653 | 3541653 |
| ઈ of | Perfluorobutanesulfonic acid (PFBS) | 537 | 2.0 | FDFT-MW-2-Sept-2016 | | 96 | | ng/L | - | ! | ı | ī | 6.0 | 09/13/2016 08:13 | 09/13/2016 08:13 09/14/2016 04:09 3541653 | 3541653 |
| 17 Page | JPage 2 of 4 | | | | | | | | | | ΞA R | <u>∩</u> | 2206 | 31 / EEA Re | EEA Run ID 220661 / EEA Report # 372298 | 88 |
| | | | | | | | | | | | | | | | | |

| | | | | | S OO | QC Summary Report (cont.) | port (cont.) | | | | | | | | | |
|----------------|--------------------------------------|--------|-----|-------------------------|----------------|---------------------------|--------------|-------|---------------|--------------------|-----|--------------|------|-----------------------------------|------------------|------------|
| Sample Type | Analyte | Method | MRL | Client ID | Result Flag | Amount | Target | Units | % Recovery | Recovery Limits | RPD | RPD Limit | Dil | Extracted | Analyzed | EEA ID# |
| LFSML | IS-PFOA-13C2 | 537 | N/A | FDFT-MW-2-Sept-2016 | | 4613.70 | 8128.6 | ng/L | 57 | 50 - 150 | 1 | 1 | 1.0 | 09/13/2016 08:13 | 09/14/2016 04:25 | 3541654 |
| LFSML | IS-PFOS-13C4 | 537 | N/A | FDFT-MW-2-Sept-2016 | | 4627.37 | 7134.95 | ng/L | 65 | 50 - 150 | i | | 1.0 | 09/13/2016 08:13 09/14/2016 04:25 | | 3541654 |
| LFSML | SS-PFDA-13C2 | 537 | A/N | FDFT-MW-2-Sept-2016 | | 197.7510 | 100 | ng/L | 198 | 70 - 130 | - | : | 1.0 | 09/13/2016 08:13 | 09/14/2016 04:25 | 3541654 |
| LFSML | SS-PFHxA-13C2 | 537 | A/N | FDFT-MW-2-Sept-2016 | | 73.2229 | 20.0 | ng/L | 146 | 70 - 130 | I | i | 1.0 | 09/13/2016 08:13 | 09/14/2016 04:25 | 3541654 |
| LFSML | Perfluorobutanesulfonic acid (PFBS) | 537 | 2.0 | FDFT-MW-2-Sept-2016 | | 105.0750 | 98.3429 | ng/L | 437 | 50 - 150 | 1 | 1 | 1.0 | 09/13/2016 08:13 | 09/14/2016 04:25 | 3541654 |
| LFSMDL | IS-PFOA-13C2 | 537 | A/N | FDFT-MW-2-Sept-2016 | П | 4620.42 | 8128.6 | ng/L | 22 | 50 - 150 | ī | ī | 1.0 | 09/13/2016 08:13 | 09/14/2016 04:42 | 3541655 |
| LFSMDL | IS-PFOS-13C4 | 537 | A/N | FDFT-MW-2-Sept-2016 | П | 4786.05 | 7134.95 | ng/L | 29 | 50 - 150 | 1 | - | 1.0 | 09/13/2016 08:13 | 09/14/2016 04:42 | 3541655 |
| LFSMDL | SS-PFDA-13C2 | 537 | N/A | FDFT-MW-2-Sept-2016 | | 189.3260 | 100 | ng/L | 189 | 70 - 130 | ī | 1 | 1.0 | 09/13/2016 08:13 | 09/14/2016 04:42 | 3541655 |
| LFSMDL | SS-PFHxA-13C2 | 537 | A/A | FDFT-MW-2-Sept-2016 | | 75.3031 | 20.0 | ng/L | 151 | 70 - 130 | 1 | 1 | 1.0 | 09/13/2016 08:13 | 09/14/2016 04:42 | 3541655 |
| LFSMDL | Perfluorobutanesulfonic acid (PFBS) | 537 | 2.0 | FDFT-MW-2-Sept-2016 | П | 95.0668 | 98.3429 | ng/L | -64 | 50 - 150 | 10 | 20 | 1.0 | 09/13/2016 08:13 | 09/14/2016 04:42 | 3541655 |
| FS | IS-PFOA-13C2 | 537 | A/N | FDFT-MW-3-Sept-2016 | | 4736.10 | 8128.6 | ng/L | 28 | 50 - 150 | - | - | 1.0 | 09/13/2016 08:13 | 09/14/2016 04:59 | 3541656 |
| FS | IS-PFOS-13C4 | 537 | A/N | FDFT-MW-3-Sept-2016 | | 4646.08 | 7134.95 | ng/L | 65 | 50 - 150 | | | 1.0 | 09/13/2016 08:13 | 09/14/2016 04:59 | 3541656 |
| FTB | IS-PFOA-13C2 | 537 | N/A | FTB | | 8585.70 | 8128.6 | ng/L | 106 | 50 - 150 | ī | 1 | 0.9 | 09/13/2016 08:13 | 09/14/2016 05:16 | 3541657 |
| FTB | IS-PFOS-13C4 | 537 | N/A | FTB | | 6970.06 | 7134.95 | ng/L | 86 | 50 - 150 | ī | 1 | 0.9 | 09/13/2016 08:13 | 09/14/2016 05:16 | 3541657 |
| FTB | SS-PFDA-13C2 | 537 | A/N | FTB | | 100.8080 | 100 | ng/L | 112 | 70 - 130 | ī | | 0.9 | 09/13/2016 08:13 | 09/14/2016 05:16 | 3541657 |
| FTB | SS-PFHxA-13C2 | 537 | N/A | FTB | | 44.5691 | 20.0 | ng/L | 66 | 70 - 130 | ī | 1 | 0.9 | 09/13/2016 08:13 | 09/14/2016 05:16 | 3541657 |
| FTB | Perfluorobutanesulfonic acid (PFBS) | 537 | 2.0 | FTB | v | 2.0 | | ng/L | - | - | ī | 1 | 0.9 | 09/13/2016 08:13 | 09/14/2016 05:16 | 3541657 |
| FTB | Perfluoroheptanoic acid (PFHpA) | 537 | 2.0 | FTB | v | 2.0 | | ng/L | - | - | 1 | 1 | 0.9 | 09/13/2016 08:13 | 09/14/2016 05:16 | 3541657 |
| FTB | Perfluorohexanesulfonic acid (PFHxS) | 537 | 2.0 | FTB | v | 2.0 | | ng/L | | | ī | ī | 0.9 | 09/13/2016 08:13 | 09/14/2016 05:16 | 3541657 |
| FTB | Perfluorononanoic acid (PFNA) | 537 | 2.0 | FTB | v | 2:0 | | ng/L | | - | 1 | - | 0.9 | 09/13/2016 08:13 | 09/14/2016 05:16 | 3541657 |
| FTB | Perfluorooctane sulfonate (PFOS) | 537 | 2.0 | FTB | v | 2.0 | | ng/L | | | ī | ī | 0.9 | 09/13/2016 08:13 | 09/14/2016 05:16 | 3541657 |
| FTB | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | FTB | v | 2:0 | | ng/L | | - | 1 | - | 0.9 | 09/13/2016 08:13 | 09/14/2016 05:16 | 3541657 |
| FS | IS-PFOA-13C2 | 537 | A/N | FDFT-MW-4-Sept-2016 | | 7730.47 | 8128.6 | ng/L | 92 | 50 - 150 | | | 0.93 | 09/13/2016 08:13 | 09/14/2016 05:32 | 3541658 |
| FS | IS-PFOS-13C4 | 537 | A/N | FDFT-MW-4-Sept-2016 | | 4080.80 | 7134.95 | ng/L | 22 | 50 - 150 | 1 | i | 0.93 | 09/13/2016 08:13 | 09/14/2016 05:32 | 3541658 |
| FS | SS-PFDA-13C2 | 537 | N/A | FDFT-MW-4-Sept-2016 | | 102.5210 | 100 | ng/L | 110 | 70 - 130 | I | - | 0.93 | 09/13/2016 08:13 | 09/14/2016 05:32 | 3541658 |
| FS | SS-PFHxA-13C2 | 537 | A/N | FDFT-MW-4-Sept-2016 | | 43.0484 | 20.0 | ng/L | 93 | 70 - 130 | - | - | 0.93 | 09/13/2016 08:13 | 09/14/2016 05:32 | 3541658 |
| FS | Perfluorobutanesulfonic acid (PFBS) | 537 | 2.0 | FDFT-MW-4-Sept-2016 | | 130 | | ng/L | - | - | | | 0.93 | 09/13/2016 08:13 | 09/14/2016 05:32 | 3541658 |
| FS | Perfluorononanoic acid (PFNA) | 537 | 2.0 | FDFT-MW-4-Sept-2016 | | 9.6 | | ng/L | I | - | | | 0.93 | 09/13/2016 08:13 | 09/14/2016 05:32 | 3541658 |
| FS | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | FDFT-MW-4-Sept-2016 | | 150 | | ng/L | - | - | | | 0.93 | 09/13/2016 08:13 | 09/14/2016 05:32 | 3541658 |
| FS | IS-PFOA-13C2 | 537 | A/N | FDFT-MW-4-Sept-2016 Dup | | 7846.90 | 8128.6 | ng/L | 97 | 50 - 150 | ī | ī | 0.9 | 09/13/2016 08:13 | 09/14/2016 05:49 | 3541659 |
| FS | IS-PFOS-13C4 | 537 | A/N | FDFT-MW-4-Sept-2016 Dup | П | 3989.09 | 7134.95 | ng/L | 99 | 50 - 150 | ī | | 0.9 | 09/13/2016 08:13 | 09/14/2016 05:49 | 3541659 |
| FS | SS-PFDA-13C2 | 537 | A/N | FDFT-MW-4-Sept-2016 Dup | | 95.4026 | 100 | ng/L | 106 | 70 - 130 | ī | ī | 0.9 | 09/13/2016 08:13 | 09/14/2016 05:49 | 3541659 |
| FS | SS-PFHxA-13C2 | 537 | A/N | FDFT-MW-4-Sept-2016 Dup | П | 41.9985 | 20.0 | ng/L | 93 | 70 - 130 | I | | 0.9 | 09/13/2016 08:13 | 09/14/2016 05:49 | 3541659 |
| FS | Perfluorobutanesulfonic acid (PFBS) | 537 | 2.0 | FDFT-MW-4-Sept-2016 Dup | | 140 | | ng/L | | | П | | 0.9 | 09/13/2016 08:13 | 09/14/2016 05:49 | 3541659 |
| FS | Perfluorononanoic acid (PFNA) | 537 | 2.0 | FDFT-MW-4-Sept-2016 Dup | П | 9:0 | | ng/L | | - | 1 | - | 0.9 | 09/13/2016 08:13 | 09/14/2016 05:49 | 3541659 |
| FS | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | FDFT-MW-4-Sept-2016 Dup | | 150 | | ng/L | | | П | | 0.9 | 09/13/2016 08:13 | 09/14/2016 05:49 | 3541659 |
| CCM | IS-PFOA-13C2 | 537 | N/A | - | | 8208.56 | 8208.56 | ng/L | 100 | 50 - 150 | | | 1.0 | 09/06/2016 16:00 | 09/14/2016 06:06 | 3543765 |
| PCCM | IS-PFOS-13C4 | 537 | N/A | | | 6965.58 | 6965.58 | ng/L | 100 | 50 - 150 | H | - | 1.0 | 09/06/2016 16:00 | 09/14/2016 06:06 | 3543765 |
| woo age | SS-PFDA-13C2 | 537 | A/N | 1 | | 95.0483 | 100 | ng/L | 92 | 70 - 130 | 1 | 1 | 1.0 | 09/06/2016 16:00 09/14/2016 06:06 | | 3543765 |
| ₩ 211 | SS-PFHxA-13C2 | 537 | N/A | - | | 50.7427 | 20.0 | ng/L | 101 | 70 - 130 | 1 | - | 1.0 | 09/06/2016 16:00 09/14/2016 06:06 | | 3543765 |
| © Oof | Perfluorobutanesulfonic acid (PFBS) | 537 | 2.0 | | | 103.0630 | 100 | ng/L | 103 | 70 - 130 | - | - | 1.0 | 09/06/2016 16:00 09/14/2016 06:06 | 09/14/2016 06:06 | 3543765 |
| 1 f 1 | | | | | | | | | | | | | | | | |

| | | | | | S OC S | QC Summary Report (cont. | ort (cont. | | | | | | | | | |
|----------------|--------------------------------------|--------|-----|-----------|----------------|--------------------------|------------|-------|---------------|------------------------|-----|--------------|---------------|------------------|---|------------|
| Sample Type | Analyte | Method | MRL | Client ID | Result Flag | Amount | Target | Units | % Recovery | Recovery RPD Limits | RPD | RPD Limit | Dil Factor | Extracted | Analyzed | EEA ID# |
| CCM | Perfluoroheptanoic acid (PFHpA) | 537 | 2.0 | - | | 102.3470 | 100 | ng/L | 102 | 70 - 130 | 1 | 1 | 1.0 | 09/06/2016 16:00 | 09/06/2016 16:00 09/14/2016 06:06 3543765 | 3543765 |
| CCM | Perfluorohexanesulfonic acid (PFHxS) | 537 | 2.0 | | | 98.3792 | 100 | ng/L | 86 | 70 - 130 | i | ı | 1.0 | 09/06/2016 16:00 | 09/06/2016 16:00 09/14/2016 06:06 3543765 | 3543765 |
| CCM | Perfluorononanoic acid (PFNA) | 537 | 2.0 | ! | | 103.7240 | 100 | ng/L | 104 | 70 - 130 | ł | ļ | 1.0 | 09/06/2016 16:00 | 09/06/2016 16:00 09/14/2016 06:06 3543765 | 3543765 |
| CCM | Perfluorooctane sulfonate (PFOS) | 537 | 2.0 | | | 97.4273 | 100 | ng/L | 26 | 70 - 130 | i | ı | 1.0 | 09/06/2016 16:00 | 09/06/2016 16:00 09/14/2016 06:06 3543765 | 3543765 |
| CCM | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | | | 98.4397 | 100 | ng/L | 86 | 70 - 130 | ł | : | 1.0 | 09/06/2016 16:00 | 1.0 09/06/2016 16:00 09/14/2016 06:06 3543765 | 3543765 |





Eurofins Eaton Analytical Run Log

| 537 | |
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| Method: | |
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| <u>Sa</u> | Sample Site | Matrix OS OS RW | Instrument ID CY CY CY CY | Analysis Date 09/14/2016 18:01 09/14/2016 18:01 09/14/2016 18:34 | Calibration File 091416M537a-PFC12.mdb 091416M537a-PFC12.mdb |
|------------------|---|-----------------|-------------------------------|--|--|
| ≥ | FDFT-MW-1-Sept-2016 | % | ১ ১ ১ ১ | 09/14/2016 18:34 09/14/2016 19:08 09/14/2016 19:08 09/14/2016 23:53 | 091416M537a-PFC12.mdb 091416M537a-PFC12.mdb 091416M537a-PFC12.mdb 091416M537a-PFC12.mdb |
| $\geq \geq \geq$ | FDFT-MW-2-Sept-2016 FDFT-MW-3-Sept-2016 FDFT-MW-4-Sept-2016 | MD GW | \$ \$ \$ | 09/15/2016 00:09 09/15/2016 00:26 09/15/2016 00:43 | 091416M537a-PFC12.mdb 091416M537a-PFC12.mdb 091416M537a-PFC12.mdb |
| -4-Se | DFT-MW-4-Sept-2016 Dup | DW OS OS | ኔ ኔ ኔ | 09/15/2016 01:00 09/15/2016 02:57 09/15/2016 02:57 | 091416M537a-PFC12.mdb 091416M537a-PFC12.mdb 091416M537a-PFC12.mdb |

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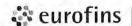
| CLAS CLAS <th< th=""><th>Type</th><th>Analyte</th><th>Method</th><th>MRL</th><th>Client ID</th><th>Result Flag</th><th>Amount</th><th>Target</th><th>Units</th><th>% Recovery</th><th>Recovery / Limits</th><th>RPD</th><th>RPD Limit</th><th>Dil Factor</th><th>Extracted</th><th>Analyzed</th><th>EEA ID#</th></th<> | Type | Analyte | Method | MRL | Client ID | Result Flag | Amount | Target | Units | % Recovery | Recovery / Limits | RPD | RPD Limit | Dil Factor | Extracted | Analyzed | EEA ID# |
|--|------|--------------------------------------|--------|-----|--------------------|----------------|----------|---------|-------|---------------|----------------------|-----|--------------|---------------|------------------|------------------|------------|
| Performance and FFP-NA S | CCL | Perfluorobutanesulfonic acid (PFBS) | 537 | 2.0 | | | 1.6348 | 2.0 | ng/L | 82 | 50 - 150 | | | 1.0 | 09/14/2016 13:21 | | 3544357 |
| Prefunctionation and Philiphy (1) 637 12.0 1.0. 1.0. 1.0. 1.0. 1.0. 1.0. 1.0. | CCL | Perfluoroheptanoic acid (PFHpA) | 537 | 2.0 | - | | 1.7427 | 2.0 | ng/L | 87 | 50 - 150 | | - | 1.0 | 09/14/2016 13:21 | | 3544357 |
| Performancement estat PRNAN | CCL | Perfluorohexanesulfonic acid (PFHxS) | 537 | 2.0 | | | 1.7341 | 2.0 | ng/L | 87 | 50 - 150 | 1 | 1 | 1.0 | 09/14/2016 13:21 | | 3544357 |
| Perfocementation [PTO3] SSS 20 1 | CCL | Perfluorononanoic acid (PFNA) | 537 | 2.0 | - | | 1.6924 | 2.0 | ng/L | 85 | 50 - 150 | - | | 1.0 | 09/14/2016 13:21 | 09/14/2016 18:01 | 3544357 |
| Perfoce-connected pre-Color 1,178 2.0 | CCL | Perfluorooctane sulfonate (PFOS) | 537 | 2.0 | | | 1.6996 | 2.0 | ng/L | 85 | 50 - 150 | 1 | 1 | 1.0 | 09/14/2016 13:21 | 09/14/2016 18:01 | 3544357 |
| Serior 1972 1974 | CCL | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | | | 1.7814 | 2.0 | ng/L | 88 | 50 - 150 | 1 | 1 | 1.0 | 09/14/2016 13:21 | 09/14/2016 18:01 | 3544357 |
| Professional Control | CCL | IS-PFOA-13C2 | 537 | A/N | | | 8840.86 | 8840.86 | ng/L | 100 | 50 - 150 | | 1 | 1.0 | 09/14/2016 13:21 | 09/14/2016 18:01 | 3544357 |
| Septimentalization of the control of | CCL | IS-PFOS-13C4 | 537 | A/N | | | 7299.45 | 7299.45 | ng/L | 100 | 50 - 150 | | | 1.0 | 09/14/2016 13:21 | 09/14/2016 18:01 | 3544357 |
| Particularization and physion and physio | SCL | SS-PFDA-13C2 | 537 | A/A | 1 | | 96.8320 | 100 | ng/L | 97 | 70 - 130 | | I | 1.0 | 09/14/2016 13:21 | 09/14/2016 18:01 | 3544357 |
| Perfunctionation and (PFRS) 557 2.0 | CCL | SS-PFHxA-13C2 | 537 | A/A | | | 49.1382 | 50.0 | ng/L | 86 | 70 - 130 | | | 1.0 | 09/14/2016 13:21 | 09/14/2016 18:01 | 3544357 |
| Perfunctionamentality and perfusion performance and (PFNeX) 587 2.0 2.0 | -RB | Perfluorobutanesulfonic acid (PFBS) | 537 | 2.0 | ! | v | 2.0 | | ng/L | I | 1 | 1 | - | 0.92 | 09/14/2016 07:35 | | 3544344 |
| Perfuncementation: each PPH-85) 557 20 | -RB | Perfluoroheptanoic acid (PFHpA) | 537 | 2.0 | - | v | 2.0 | | ng/L | 1 | ı | 1 | I | 0.92 | 09/14/2016 07:35 | | 3544344 |
| Perfunctionamenic and PFNAy SST 20 | -RB | Perfluorohexanesulfonic acid (PFHxS) | 537 | 2.0 | - | V | 2.0 | | ng/L | 1 | I | 1 | I | 0.92 | 09/14/2016 07:35 | | 3544344 |
| Perflucocatione sulformet (PTGS) 637 120 | 82 | Perfluorononanoic acid (PFNA) | 537 | 2.0 | ! | v | 2.0 | | ng/L | 1 | 1 | 1 | 1 | 0.92 | 09/14/2016 07:35 | | 3544344 |
| Perfluctochemic and (PPCA) 6357 12 | RB. | Perfluorooctane sulfonate (PFOS) | 537 | 2.0 | - | V | 2.0 | | ng/L | I | I | 1 | I | 0.92 | 09/14/2016 07:35 | | 3544344 |
| Perfectored | RB | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | - | ٧ | 2.0 | | ng/L | - | 1 | 1 | 1 | 0.92 | 09/14/2016 07:35 | | 3544344 |
| SePENDA-1322 537 NA | 88 | IS-PFOA-13C2 | 537 | N/A | | | 8838.99 | 8840.86 | ng/L | 100 | 50 - 150 | 1 | 1 | 0.92 | 09/14/2016 07:35 | | 3544344 |
| SePERDA-13CZ 537 NA ——————————————————————————————————— | 82 | IS-PFOS-13C4 | 537 | N/A | - | | 7302.11 | 7299.45 | ng/L | 100 | 50 - 150 | | 1 | 0.92 | 09/14/2016 07:35 | | 3544344 |
| Perfunctional card (PPRs) 537 2.0 | 8 | SS-PFDA-13C2 | 537 | N/A | | | 86.3773 | 100 | ng/L | 94 | 70 - 130 | 1 | 1 | 0.92 | 09/14/2016 07:35 | | 3544344 |
| Perfluctorbulanesulfunic acid (PFBA) 637 2.0 ——————————————————————————————————— | 8 | SS-PFHxA-13C2 | 537 | N/A | | | 44.4030 | 20.0 | ng/L | 97 | 70 - 130 | | - | 0.92 | 09/14/2016 07:35 | | 3544344 |
| Perfluctorhepatone acid (PFHyA) 537 2.0 | BH | Perfluorobutanesulfonic acid (PFBS) | 537 | 2.0 | - | | 182.1980 | 200 | ng/L | 91 | 70 - 130 | - | | 1.0 | 09/14/2016 07:35 | | 3544345 |
| Perflucionchexiane sulforder (PFNs) 637 2.0 ——————————————————————————————————— | BH | Perfluoroheptanoic acid (PFHpA) | 537 | 2.0 | - | | 177.5130 | 200 | ng/L | 89 | 70 - 130 | 1 | 1 | 1.0 | 09/14/2016 07:35 | | 3544345 |
| Perfunctoronanoic add (PFNA) 537 2.0 — 412,9420 200 ng/L 91 70-130 — 1.0 067/4/2016 07-35 0874/2016 19-08 Perfunctorolatino add (PFNA) 537 2.0 — — 1.0 067/4/2016 07-35 0874/2016 19-08 Perfunctoclatino add (PFNA) 537 NA — — 1.0 067/4/2016 07-35 0874/2016 19-08 Perfunctoclatino add (PFNA) 537 NA — — 1.0 067/4/2016 19-03 0874/2016 19-03 SS-PFNA-13C2 537 NA — — 96 50-150 — 1.0 067/4/2016 19-03 08/4/2016 19-03 Perfunctorolatino add (PFNA) 537 NA — — 40 50-150 — 1.0 067/4/2016 19-03 08/4/2016 19-03 Perfunctorolatino add (PFNA) 537 NA — — 40 50-150 — 1.0 067/4/2016 07-35 08/4/2016 07-35 08/4/2016 07-35 08/4/2016 07-35 08/4/2016 07-35 08/4/2016 07-35 | BH | Perfluorohexanesulfonic acid (PFHxS) | 537 | 2.0 | - | | 193.0950 | 200 | ng/L | 97 | 70 - 130 | I | I | 1.0 | 09/14/2016 07:35 | | 3544345 |
| Perflucoroctane sufronate (PFOS) | ВН | Perfluorononanoic acid (PFNA) | 537 | 2.0 | - | | 182.8420 | 200 | ng/L | 91 | 70 - 130 | - | - | 1.0 | 09/14/2016 07:35 | | 3544345 |
| Perfluctooclanoic acid (PFOA) | ВН | Perfluorooctane sulfonate (PFOS) | 537 | 2.0 | - | | 184.0080 | 200 | ng/L | 92 | 70 - 130 | 1 | 1 | 1.0 | 09/14/2016 07:35 | | 3544345 |
| IS-PFOA-13C2 S37 NA | ВН | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | - | | 187.5680 | 200 | ng/L | 94 | 70 - 130 | - | - | 1.0 | 09/14/2016 07:35 | 09/14/2016 19:08 | 3544345 |
| SS-PFOA-13C2 537 NA | ᇤ | IS-PFOA-13C2 | 537 | A/N | - | | 8496.25 | 8840.86 | ng/L | 96 | 50 - 150 | | 1 | 1.0 | 09/14/2016 07:35 | | 3544345 |
| SS-PFDA-13C2 SS-PFHXA-13C2 SS- | H | IS-PFOS-13C4 | 537 | N/A | - | | 6871.66 | 7299.45 | ng/L | 94 | 50 - 150 | | | 1.0 | 09/14/2016 07:35 | | 3544345 |
| SS-FHXA-13C2 537 N/A — 43.6649 50.0 ng/L 67 70-130 — 1.0 09/14/2016 07:35 09/14/2016 | HH | SS-PFDA-13C2 | 537 | N/A | | | 95.2342 | 100 | ng/L | 95 | 70 - 130 | | - | 1.0 | 09/14/2016 07:35 | | 3544345 |
| Perfluoroheptanoic acid (PFHxS) 537 2.0 FDFT-MW-1-Sept-2016 770 mg/L 9 9 9/13/2016 08:13 9/14/2016 23:53 Perfluoroheptanoic acid (PFHxS) 537 2.0 FDFT-MW-1-Sept-2016 1200 mg/L 91 99/13/2016 08:13 9/14/2016 23:53 Perfluorohexanesulfonic acid (PFNA) 537 2.0 FDFT-MW-1-Sept-2016 430 mg/L 91 99/13/2016 08:13 9/14/2016 23:53 Perfluorocotano acid (PFNA) 537 2.0 FDFT-MW-1-Sept-2016 1600 mg/L 91 99/13/2016 08:13 9/14/2016 23:53 Perfluorocotano acid (PFNA) 537 2.0 FDFT-MW-1-Sept-2016 210 mg/L 91 99/13/2016 08:13 9/14/2016 23:53 Perfluorohexanesulfonic acid (PFNA) 537 2.0 FDFT-MW-2-Sept-2016 240 mg/L 91 99/13/2016 08:13 9/14/2016 08:13 Perfluorocotano acid (PFNA) 537 2.0 FDFT-MW-2-Sept-2016 240 < | ᇤ | SS-PFHxA-13C2 | 537 | N/A | - | | 43.6649 | 20.0 | ng/L | 87 | 70 - 130 | Ш | | 1.0 | 09/14/2016 07:35 | | 3544345 |
| Perfluoronchexanesulfonic acid (PFNA) 537 2.0 FDFT-MW-1-Sept-2016 430 ng/L 91 09/13/2016 08:13 09/14/2016 23:53 Perfluoronchexanesulfonic acid (PFNA) 537 2.0 FDFT-MW-1-Sept-2016 430 ng/L 91 91 09/13/2016 08:13 09/14/2016 23:53 Perfluoronchannoic acid (PFNA) 537 2.0 FDFT-MW-1-Sept-2016 1400 ng/L 91 91/13/2016 08:13 09/14/2016 23:53 Perfluorocctanoic acid (PFNA) 537 2.0 FDFT-MW-1-Sept-2016 210 ng/L 91 90/13/2016 08:13 09/14/2016 23:53 Perfluoronchannoic acid (PFNA) 537 2.0 FDFT-MW-2-Sept-2016 3700 ng/L 90 09/13/2016 08:13 09/13/2016 08:00 Perfluoronchannoic acid (PFNA) 537 2.0 FDFT-MW-2-Sept-2016 3900 ng/L 90 09/13/2016 08:13 09/13/2016 08:13 09/13/2016 08:13 09/13/2016 08:13 09/13/2016 08:13 09/13/2016 08:03 Porfluorocctanoic acid (PFOS) <td< td=""><td>S</td><td>Perfluoroheptanoic acid (PFHpA)</td><td>537</td><td>2.0</td><td>FDFT-MW-1-Sept-201</td><td>9</td><td>770</td><td></td><td>ng/L</td><td>1</td><td>I</td><td>1</td><td>1</td><td>91</td><td>09/13/2016 08:13</td><td></td><td>3541652</td></td<> | S | Perfluoroheptanoic acid (PFHpA) | 537 | 2.0 | FDFT-MW-1-Sept-201 | 9 | 770 | | ng/L | 1 | I | 1 | 1 | 91 | 09/13/2016 08:13 | | 3541652 |
| Perfluorondanoic acid (PFNA) 537 2.0 FDFT-MW-1-Sept-2016 430 mg/L 91 09/13/2016 08:13 09/14/2016 23:53 Perfluorooctane sulfonate (PFOS) 537 2.0 FDFT-MW-1-Sept-2016 1500 mg/L 91 09/13/2016 08:13 09/14/2016 23:53 Perfluorooctane sulfonate (PFOS) 537 2.0 FDFT-MW-1-Sept-2016 210 mg/L 91 09/13/2016 08:13 09/14/2016 23:53 Perfluorooctanoic acid (PFHpA) 537 2.0 FDFT-MW-2-Sept-2016 210 mg/L 90 09/13/2016 08:13 09/14/2016 03:09 Perfluorooctanoic acid (PFNA) 537 2.0 FDFT-MW-2-Sept-2016 240 mg/L 90 09/13/2016 08:13 09/15/2016 00:09 Perfluorooctanoic acid (PFNA) 537 2.0 FDFT-MW-2-Sept-2016 3900 mg/L 90 09/13/2016 08:13 09/13/2016 00:09 Perfluorooctanoic acid (PFOA) 537 2.0 FDFT-MW-2-Sept-2016 100 100 100 100 10 | တ္ | Perfluorohexanesulfonic acid (PFHxS) | 537 | 2.0 | FDFT-MW-1-Sept-201 | 9 | 1200 | | ng/L | 1 | 1 | I | I | 91 | 09/13/2016 08:13 | | 3541652 |
| Perfluorooctane sulfonate (PFOS) 537 2.0 FDFT-MW-1-Sept-2016 1500 ng/L 91 09/13/2016 08:13 09/14/2016 23:53 Perfluorooctanoic acid (PFOA) 537 2.0 FDFT-MW-1-Sept-2016 210 ng/L 90 09/13/2016 08:13 09/14/2016 23:53 Perfluorooctanoic acid (PFNA) 537 2.0 FDFT-MW-2-Sept-2016 240 ng/L 90 09/13/2016 08:13 09/15/2016 00:09 Perfluoronchexanesulfonic acid (PFNA) 537 2.0 FDFT-MW-2-Sept-2016 240 ng/L 90 09/13/2016 08:13 09/15/2016 00:09 Perfluorooctane sulforate (PFOS) 537 2.0 FDFT-MW-2-Sept-2016 3900 ng/L 90 09/13/2016 08:13 09/15/2016 00:09 Perfluorooctanoic acid (PFOA) 537 2.0 FDFT-MW-2-Sept-2016 1600 90 09/13/2016 08:13 09/15/2016 00:09 Perfluorooctanoic acid (PFOA) 537 2.0 FDFT-MW-2-Sept-2016 1600 1600 1600 | S | Perfluorononanoic acid (PFNA) | 537 | 2.0 | FDFT-MW-1-Sept-201 | 9 | 430 | | ng/L | 1 | I | 1 | 1 | 91 | 09/13/2016 08:13 | | 3541652 |
| Perfluorocdanoic acid (PFOA) 537 2.0 FDFT-MW-1-Sept-2016 1400 ng/L 91 09/13/2016 08:13 09/14/2016 23:53 Perfluorocdanoic acid (PFHAA) 537 2.0 FDFT-MW-2-Sept-2016 210 ng/L 90 09/13/2016 08:13 09/14/2016 03:09 Perfluorochezanesulfonic acid (PFHAA) 537 2.0 FDFT-MW-2-Sept-2016 240 ng/L 90 09/13/2016 08:13 09/15/2016 00:09 Perfluorocotane sulfronte (PFOS) 537 2.0 FDFT-MW-2-Sept-2016 3900 ng/L 90 09/13/2016 08:13 09/15/2016 00:09 Perfluorocotane sulfronte (PFOS) 537 2.0 FDFT-MW-2-Sept-2016 3900 ng/L 90 09/13/2016 08:13 09/15/2016 00:09 Perfluoroctano cacid (PFOA) 537 2.0 FDFT-MW-2-Sept-2016 1500 90 09/13/2016 00:09 | S | Perfluorooctane sulfonate (PFOS) | 537 | 2.0 | FDFT-MW-1-Sept-201 | 9 | 1500 | | ng/L | - | 1 | - | - | 91 | 09/13/2016 08:13 | 09/14/2016 23:53 | 3541652 |
| Perfluorohetanoic acid (PFHAs) 537 2.0 FDFT-MW-2-Sept-2016 210 ng/L 90 99/13/2016 00:09 99/13/2016 00:09 Perfluorohexanesulfonic acid (PFHAs) 537 2.0 FDFT-MW-2-Sept-2016 240 ng/L 90 99/13/2016 08:13 99/13/2016 00:09 Perfluorocotane sulfronate (PFOS) 537 2.0 FDFT-MW-2-Sept-2016 3900 ng/L 90 99/13/2016 08:13 99/13/2016 00:09 Perfluorocotane sulfronate (PFOS) 537 2.0 FDFT-MW-2-Sept-2016 1500 ng/L 90 99/13/2016 08:13 99/13/2016 00:09 Perfluorocotano acid (PFOA) 537 2.0 FDFT-MW-2-Sept-2016 1500 ng/L 90 99/13/2016 08:13 99/13/2016 00:09 | S | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | FDFT-MW-1-Sept-201 | 9 | 1400 | | ng/L | - | 1 | - | | 91 | 09/13/2016 08:13 | | 3541652 |
| Perfluorobexanesulfonio acid (PFLAS) 537 2.0 FDFT-MW-2-Sept-2016 3700 mg/L 90 90/13/2016 00:09 90/13/2016 00:09 Perfluorobrana cid (PFNA) 537 2.0 FDFT-MW-2-Sept-2016 3900 mg/L 90 90/13/2016 08:13 90/15/2016 00:09 Perfluorocotane sulfonate (PFOA) 537 2.0 FDFT-MW-2-Sept-2016 1500 mg/L 90 90/13/2016 08:13 90/15/2016 00:09 | ပ္သ | Perfluoroheptanoic acid (PFHpA) | 537 | 2.0 | FDFT-MW-2-Sept-201 | 9 | 210 | | ng/L | | | | | 06 | 09/13/2016 08:13 | | 3541653 |
| Perfluoronanolic acid (PFNA) 537 2.0 FDFT-MW-2-Sept-2016 240 ng/L 90 90/13/2016 08:13 09/15/2016 00:09 Perfluorocctane sulfonate (PFOS) 537 2.0 FDFT-MW-2-Sept-2016 1500 1500 ng/L 90 09/13/2016 08:13 09/15/2016 00:09 Perfluorocctanoic acid (PFOA) 537 2.0 FDFT-MW-2-Sept-2016 1500 ng/L 90 09/13/2016 08:13 09/15/2016 00:09 | ပ္သ | Perfluorohexanesulfonic acid (PFHxS) | 537 | 2.0 | FDFT-MW-2-Sept-201 | 9 | 3700 | | ng/L | | | | 1 | 06 | 09/13/2016 08:13 | | 3541653 |
| Perfluorocotane sulfonate (PFOS) 537 2.0 FDFT-MW-2-Sept-2016 3900 ng/L 90 09/13/2016 00:13 09/15/2016 00:09 Perfluorocotanoic acid (PFOA) 537 2.0 FDFT-MW-2-Sept-2016 1500 ng/L 90 09/13/2016 00:13 09/15/2016 00:09 | ES. | Perfluorononanoic acid (PFNA) | 537 | 2.0 | FDFT-MW-2-Sept-201 | 9 | 240 | | ng/L | | l l | Ш | I | 06 | 09/13/2016 08:13 | | 3541653 |
| Perfluorooctanoic acid (PFOA) 537 2.0 FDFT-MW-2-Sept-2016 1500 ng/L 90 | FS | Perfluorooctane sulfonate (PFOS) | 537 | 2.0 | FDFT-MW-2-Sept-201 | 9 | 3900 | | ng/L | | | | - | 06 | 09/13/2016 08:13 | 09/15/2016 00:09 | 3541653 |
| | FS | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | FDFT-MW-2-Sept-201 | 9 | 1500 | | ng/L | 1 | | | ı | 06 | 09/13/2016 08:13 | 09/15/2016 00:09 | 3541653 |

EEA Run ID 220690 / EEA Report # 372298

| | | | | | QC S | QC Summary Report (cont.) | ort (cont.) | | | | | | | | | |
|----------------|--------------------------------------|--------|-----|-------------------------|----------------|---------------------------|-------------|-------|---------------|--------------------|-----|--------------|---------------|------------------|--------------------------|------------|
| Sample Type | Analyte | Method | MRL | Client ID | Result Flag | Amount | Target | Units | % Recovery | Recovery Limits | RPD | RPD Limit | Dil Factor | Extracted | Analyzed | EEA ID# |
| FS | Perfluorobutanesulfonic acid (PFBS) | 537 | 2.0 | FDFT-MW-3-Sept-2016 | | 1100 | | ng/L | | - | 1 | 1 | 100 | 09/13/2016 08:13 | 09/15/2016 00:26 | 3541656 |
| FS | Perfluoroheptanoic acid (PFHpA) | 537 | 2.0 | FDFT-MW-3-Sept-2016 | | 1500 | | ng/L | i | 1 | ı | ŀ | 100 | 09/13/2016 08:13 | 09/15/2016 00:26 | 3541656 |
| FS | Perfluorohexanesulfonic acid (PFHxS) | 537 | 2.0 | FDFT-MW-3-Sept-2016 | | 3500 | | ng/L | | - | I | ŀ | 100 | 09/13/2016 08:13 | 09/15/2016 00:26 | 3541656 |
| FS | Perfluorononanoic acid (PFNA) | 537 | 2.0 | FDFT-MW-3-Sept-2016 | | 1300 | | ng/L | - | - | I | ŀ | 100 | 09/13/2016 08:13 | 09/15/2016 00:26 | 3541656 |
| FS | Perfluorooctane sulfonate (PFOS) | 537 | 2.0 | FDFT-MW-3-Sept-2016 | | 4800 | | ng/L | | - | I | 1 | 100 | 09/13/2016 08:13 | 09/15/2016 00:26 | 3541656 |
| FS | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | FDFT-MW-3-Sept-2016 | | 2100 | | ng/L | - | 1 | ı | 1 | 100 | 09/13/2016 08:13 | 09/15/2016 00:26 | 3541656 |
| FS | Perfluoroheptanoic acid (PFHpA) | 537 | 2.0 | FDFT-MW-4-Sept-2016 | | 330 | | ng/L | | | - | 1 | 93 | 09/13/2016 08:13 | 09/15/2016 00:43 | 3541658 |
| FS | Perfluorohexanesulfonic acid (PFHxS) | 537 | 2.0 | FDFT-MW-4-Sept-2016 | | 430 | | ng/L | - | - | - | 1 | 93 | 09/13/2016 08:13 | 09/15/2016 00:43 | 3541658 |
| FS | Perfluorooctane sulfonate (PFOS) | 537 | 2.0 | FDFT-MW-4-Sept-2016 | | 4500 | | ng/L | - | - | | 1 | 93 | 09/13/2016 08:13 | 09/15/2016 00:43 | 3541658 |
| FS | Perfluoroheptanoic acid (PFHpA) | 537 | 2.0 | FDFT-MW-4-Sept-2016 Dup | | 340 | | ng/L | | - | ı | 1 | 06 | 09/13/2016 08:13 | 09/15/2016 01:00 | 3541659 |
| FS | Perfluorohexanesulfonic acid (PFHxS) | 537 | 2.0 | FDFT-MW-4-Sept-2016 Dup | | 460 | | ng/L | | - | I | 1 | 06 | 09/13/2016 08:13 | 09/15/2016 01:00 3541659 | 3541659 |
| FS | Perfluorooctane sulfonate (PFOS) | 537 | 2.0 | FDFT-MW-4-Sept-2016 Dup | | 4600 | | ng/L | - | - | 1 | ŀ | 06 | 09/13/2016 08:13 | 09/15/2016 01:00 | 3541659 |
| CCM | Perfluorobutanesulfonic acid (PFBS) | 537 | 2.0 | | | 100.7630 | 100 | ng/L | 101 | 70 - 130 | 1 | 1 | 1.0 | 09/14/2016 13:21 | 09/15/2016 02:57 | 3544358 |
| CCM | Perfluoroheptanoic acid (PFHpA) | 537 | 2.0 | | | 101.6390 | 100 | ng/L | 102 | 70 - 130 | - | 1 | 1.0 | 09/14/2016 13:21 | 09/15/2016 02:57 | 3544358 |
| CCM | Perfluorohexanesulfonic acid (PFHxS) | 537 | 2.0 | | | 101.8080 | 100 | ng/L | 102 | 70 - 130 | | 1 | 1.0 | 09/14/2016 13:21 | 09/15/2016 02:57 | 3544358 |
| CCM | Perfluorononanoic acid (PFNA) | 537 | 2.0 | | | 101.8050 | 100 | ng/L | 102 | 70 - 130 | | 1 | 1:0 | 09/14/2016 13:21 | 09/15/2016 02:57 | 3544358 |
| CCM | Perfluorooctane sulfonate (PFOS) | 537 | 2.0 | | | 97.9633 | 100 | ng/L | 86 | 70 - 130 | | 1 | 1.0 | 09/14/2016 13:21 | 09/15/2016 02:57 | 3544358 |
| CCM | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | | | 102.4210 | 100 | ng/L | 102 | 70 - 130 | | 1 | 1.0 | 09/14/2016 13:21 | 09/15/2016 02:57 | 3544358 |
| CCM | IS-PFOA-13C2 | 537 | N/A | 1 | | 8777.80 | 87778 | ng/L | 100 | 50 - 150 | I | 1 | 1.0 | 09/14/2016 13:21 | 09/15/2016 02:57 | 3544358 |
| CCM | IS-PFOS-13C4 | 537 | N/A | - | | 7295.37 | 7295.37 | ng/L | 100 | 50 - 150 | ı | ! | 1.0 | 09/14/2016 13:21 | 09/15/2016 02:57 | 3544358 |
| CCM | SS-PFDA-13C2 | 537 | N/A | - | | 94.4863 | 100 | ng/L | 94 | 70 - 130 | ı | ļ | 1.0 | 09/14/2016 13:21 | 09/15/2016 02:57 | 3544358 |
| CCM | SS-PFHxA-13C2 | 537 | N/A | | | 50.3603 | 20.0 | ng/L | 101 | 70 - 130 | 1 | 1 | 1.0 | 09/14/2016 13:21 | 09/15/2016 02:57 | 3544358 |

| Sample Type Key | Type (Abbr.) Sample Type | | | | | | | | | |
|-----------------|--------------------------|----------------------------|----------------------------|--------------|------------------|----------------------|---------------------|--------------------|----------|--------------------------|
| | Sample Type | Continuing Calibration Low | Continuing Calibration Mid | Field Sample | Field Trip Blank | Fortified Blank High | Fortified Blank Mid | LFSM Duplicate Low | LFSM Low | Laboratory Reagent Blank |
| | Type (Abbr.) | TOO | CCM | FS | FTB | FBH | FBM | LFSMDL | LFSML | LRB |

END OF REPORT



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: OWS-001 Composite Soil

FORT DRUM

LL Sample # SW 8670110 LL Group # 1726839

Account # 38055

Project Name: Fort Drum

Collected: 10/26/2016 14:09

Converse Laboratories, Inc.

800 Starbuck Ave

Suite B101

Watertown NY 13601

Submitted: 10/29/2016 09:20 Reported: 12/08/2016 10:36

| CAT No. | Analysis Name | CAS Number | Dry Result | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|------------|--|--------------------------------|------------------------|---------------------------|-----------------------------------|---------------------------------|--------------------|
| Misc. | Organics EPA 537 | Rev. 1.1 | ng/g | | ng/g | ng/g | |
| | modified | | | | | | |
| 14027 | NETFOSAA | 2991-50-6 | N.D. | | 1.0 | 3.0 | 1 |
| 11027 | NETFOSAA is the acronym for N- | ethyl perfluoro | octanesulf | onamidoacet | ic Acid. | | |
| 14027 | NMeFOSAA | 2355-31-9 | N.D. | | 1.0 | 3.0 | 1 |
| 4,190. | NMeFOSAA is the acronym for N- | methyl perfluor | ooctanesul | fonamidoace | etic Acid. | | |
| 14027 | Perfluorobutanesulfonate | 375-73-5 | N.D. | | 0.51 | 1.6 | 1 |
| 14027 | Perfluorodecanoic acid | 335-76-2 | 0.26 | J | 0.20 | 0.41 | 1 |
| 14027 | Perfluorododecanoic acid | 307-55-1 | N.D. | | 0.41 | 0.81 | 1 |
| 14027 | Perfluoroheptanoic acid | 375-85-9 | 0.34 | J | 0.30 | 0.61 | 1 |
| 14027 | Perfluorohexanesulfonate | 355-46-4 | 0.87 | J | 0.51 | 1.6 | 1 |
| 14027 | Perfluorohexanoic acid | 307-24-4 | 0.36 | J | 0.20 | 0.41 | 1 |
| 14027 | Perfluorononanoic acid | 375-95-1 | 0.77 | | 0.20 | 0.41 | 1 |
| 14027 | Perfluoro-octanesulfonate | 1763-23-1 | 100 | | 0.71 | 1.6 | 1 |
| 14027 | Perfluorooctanoic acid | 335-67-1 | 0.74 | | 0.30 | 0.61 | 1 |
| 14027 | Perfluorotetradecanoic acid | 376-06-7 | N.D. | | 0.30 | 0.81 | 1 |
| 14027 | Perfluorotridecanoic acid | 72629-94-8 | N.D. | | 0.61 | 1.2 | 1 |
| 14027 | Perfluoroundecanoic acid | 2058-94-8 | N.D. | | 0.30 | 0.61 | 1 |
| Wet C | hemistry SM 2540 | G-1997 | % | | % | % | |
| 00111 | Moisture | n.a. | 5.7 | | 0.50 | 0.50 | 1 |
| | Moisture represents the loss i 103 - 105 degrees Celsius. The as-received basis. | n weight of the moisture resul | sample a t reported | fter oven d d is on an | rying at | | |

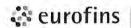
Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Ti | me | Analyst | Dilution Factor |
|------------|-----------------|---------------------------|--------|--------------|-------------------------|-------|-----------------|--------------------|
| 14027 | 14 PFCs in Soil | EPA 537 Rev. 1.1 modified | 1 | 16315006 | 11/15/2016 | 21:16 | Atulbhai Patel | 1 |
| 14090 | PFC Solid Prep | EPA 537 Rev. 1.1 | 1 | 16315006 | 11/10/2016 | 16:30 | Devon M Whooley | 1 |
| 00111 | Moisture | SM 2540 G-1997 | 1 | 16321820005A | 11/16/2016 | 13:15 | Larry E Bevins | 1 |



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 003-OIL TANK Composite Soil

FORT DRUM

LL Sample # SW 8670111

LL Group # 1726839 Account # 38055

Project Name: Fort Drum

Collected: 10/26/2016 14:15

Converse Laboratories, Inc.

800 Starbuck Ave

Suite B101

Watertown NY 13601

Submitted: 10/29/2016 09:20 Reported: 12/08/2016 10:36

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|--|--|-------------------------------------|-----------------------------------|---------------------------------|--------------------|
| Misc. | Organics EPA ! | 537 Rev. 1.1 | ng/g | ng/g | ng/g | |
| | modi: | fied | | | | |
| 14027 | NETFOSAA | 2991-50-6 | N.D. | 1.0 | 3.1 | 1 |
| 2-15. | NEtFOSAA is the acronym fo | or N-ethyl perfluoro | octanesulfonamid | oacetic Acid. | | |
| 14027 | NMeFOSAA | 2355-31-9 | N.D. | 1.0 | 3.1 | 1 |
| | NMeFOSAA is the acronym fo | or N-methyl perfluor | ooctanesulfonami | doacetic Acid. | | |
| 14027 | Perfluorobutanesulfonate | 375-73-5 | N.D. | 0.52 | 1.7 | 1 |
| 14027 | Perfluorodecanoic acid | 335-76-2 | 2.0 | 0.21 | 0.41 | 1 |
| 14027 | Perfluorododecanoic acid | 307-55-1 | N.D. | 0.41 | 0.83 | 1 |
| 14027 | Perfluoroheptanoic acid | 375-85-9 | N.D. | 0.31 | 0.62 | 1 |
| 14027 | Perfluorohexanesulfonate | 355-46-4 | N.D. | 0.52 | 1.7 | 1 |
| 14027 | Perfluorohexanoic acid | 307-24-4 | N.D. | 0.21 | 0.41 | 1 |
| 14027 | Perfluorononanoic acid | 375-95-1 | 0.60 | 0.21 | 0.41 | 1 |
| 14027 | Perfluoro-octanesulfonate | 1763-23-1 | 20 | 0.72 | 1.7 | 1 |
| 14027 | Perfluorooctanoic acid | 335-67-1 | N.D. | 0.31 | 0.62 | 1 |
| 14027 | Perfluorotetradecanoic ac: | id 376-06-7 | N.D. | 0.31 | 0.83 | 1 |
| 14027 | Perfluorotridecanoic acid | 72629-94-8 | N.D. | 0.62 | 1.2 | 1 |
| 14027 | Perfluoroundecanoic acid | 2058-94-8 | 0.75 | 0.31 | 0.62 | 1 |
| Wet C | hemistry SM 2 | 540 G-1997 | 8 | % | % | |
| 00111 | | n.a. | 3.3 | 0.50 | 0.50 | 1 |
| ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | Moisture represents the 10103 - 105 degrees Celsius as-received basis. | oss in weight of the . The moisture resul | sample after ov t reported is or | ven drying at n an | | |

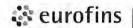
Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record Method Analyst Dilution Trial# Batch# Analysis Analysis Name CAT Date and Time Factor 16315006 11/15/2016 21:32 Atulbhai Patel 14027 14 PFCs in Soil EPA 537 Rev. 1.1 1 modified Devon M Whooley 1 16315006 11/10/2016 16:30 14090 PFC Solid Prep EPA 537 Rev. 1.1 1 modified Larry E Bevins 1 00111 Moisture SM 2540 G-1997 1 16321820005A 11/16/2016 13:15

^{*=}This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 005-LINE PIT 3 Grab Soil

FORT DRUM

LL Sample # SW 8670112

LL Group # 1726839 # 38055 Account

Project Name: Fort Drum

Collected: 10/26/2016 14:27

Converse Laboratories, Inc.

800 Starbuck Ave

Suite B101

Submitted: 10/29/2016 09:20 Reported: 12/08/2016 10:36

Watertown NY 13601

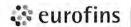
| CAT No. | Analysis Name | | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|------------|--|---|-----------------|-------------------|-----------------------------------|---------------------------------|--------------------|
| Misc. | Organics | EPA 537 | Rev. 1.1 | ng/g | ng/g | ng/g | |
| | | modified | | | | | |
| 14027 | NETFOSAA | | 2991-50-6 | N.D. | 0.98 | 2.9 | 1 |
| 2102, | NEtFOSAA is the acr | convm for N- | | octanesulfonamido | pacetic Acid. | | |
| 14027 | NMeFOSAA | *************************************** | 2355-31-9 | N.D. | 0.98 | 2.9 | 1 |
| | NMeFOSAA is the acr | conym for N- | methyl perfluor | octanesulfonamic | doacetic Acid. | | |
| 14027 | Perfluorobutanesuli | | 375-73-5 | N.D. | 0.49 | 1.6 | 1 |
| 14027 | Perfluorodecanoic a | acid | 335-76-2 | N.D. | 0.20 | 0.39 | 1 |
| 14027 | Perfluorododecanoio | acid | 307-55-1 | N.D. | 0.39 | 0.79 | 1 |
| 14027 | Perfluoroheptanoic | acid | 375-85-9 | N.D. | 0.29 | 0.59 | 1 |
| 14027 | Perfluorohexanesuli | fonate | 355-46-4 | N.D. | 0.49 | 1.6 | 1 |
| 14027 | Perfluorohexanoic a | acid | 307-24-4 | 0.59 | 0.20 | 0.39 | 1 |
| 14027 | Perfluorononanoic a | acid | 375-95-1 | N.D. | 0.20 | 0.39 | 1 |
| 14027 | Perfluoro-octanesul | lfonate | 1763-23-1 | N.D. | 0.69 | 1.6 | 1 |
| 14027 | Perfluorooctanoic a | acid | 335-67-1 | N.D. | 0.29 | 0.59 | 1 |
| 14027 | Perfluorotetradecar | noic acid | 376-06-7 | N.D. | 0.29 | 0.79 | 1 |
| 14027 | Perfluorotridecano: | ic acid | 72629-94-8 | N.D. | 0.59 | 1.2 | 1 |
| 14027 | Perfluoroundecanoi | cacid | 2058-94-8 | N.D. | 0.29 | 0.59 | 1 |
| Wet C | hemistry | SM 2540 | G-1997 | % | % | % | |
| 00111 | Moisture | | n.a. | 3.6 | 0.50 | 0.50 | 1 |
| | Moisture represents 103 - 105 degrees (as-received basis. | | | | | | |

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| | | Labora | tory Sa | ample Analys: | is Record | | | |
|------------|-----------------|---------------------------|---------|---------------|-------------------------|-------|-----------------|--------------------|
| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Ti | me | Analyst | Dilution Factor |
| 14027 | 14 PFCs in Soil | EPA 537 Rev. 1.1 modified | 1 | 16315006 | 11/15/2016 | 21:48 | Atulbhai Patel | 1 |
| 14090 | PFC Solid Prep | EPA 537 Rev. 1.1 modified | 1 | 16315006 | 11/10/2016 | 16:30 | Devon M Whooley | 1 |
| 00111 | Moisture | SM 2540 G-1997 | 1 | 16321820005A | 11/16/2016 | 13:15 | Larry E Bevins | 1 |



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 007-LINE PIT 2 Grab Soil

FORT DRUM

LL Sample # SW 8670113 LL Group # 1726839

38055 Account

Project Name: Fort Drum

Collected: 10/26/2016 14:25

Converse Laboratories, Inc.

800 Starbuck Ave

Suite B101

Submitted: 10/29/2016 09:20 Reported: 12/08/2016 10:36

Watertown NY 13601

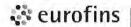
| CAT No. | Analysis Name | | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|------------|---|---------------|-----------------|-----------------|-----------------------------------|---------------------------------|--------------------|
| Misc. | Organics | EPA 537 | Rev. 1.1 | ng/g | ng/g | ng/g | |
| 1176.56 | | modified | | | | | |
| 14027 | NETFOSAA | | 2991-50-6 | N.D. | 0.98 | 2.9 | 1 |
| 14027 | NEtFOSAA is the ac | ronum for N= | | | | 700 | |
| 14027 | NMeFOSAA IS the at | ronym ror n | 2355-31-9 | N.D. | 0.98 | 2.9 | 1 |
| 14027 | NMeFOSAA is the ac | ronum for N- | | | | 1910 | |
| 14027 | Perfluorobutanesul | | 375-73-5 | N.D. | 0.49 | 1.6 | 1 |
| 14027 | Perfluorodecanoic | P-25-00-01-01 | 335-76-2 | 44 | 0.20 | 0.39 | 1 |
| 14027 | Perfluorododecanoi | | 307-55-1 | 0.99 | 0.39 | 0.78 | 1 |
| 14027 | Perfluoroheptanoic | | 375-85-9 | 0.63 | 0.29 | 0.59 | 1 |
| 14027 | Perfluorohexanesul | | 355-46-4 | 1.8 | 0.49 | 1.6 | 1 |
| 14027 | Perfluorohexanoic | | 307-24-4 | 2.9 | 0.20 | 0.39 | 1 |
| 14027 | Perfluorononanoic | acid | 375-95-1 | 6.6 | 0.20 | 0.39 | 1 |
| 14027 | Perfluoro-octanesu | lfonate | 1763-23-1 | 68 | 0.69 | 1.6 | 1 |
| 14027 | Perfluorooctanoic | acid | 335-67-1 | 5.6 | 0.29 | 0.59 | 1 |
| 14027 | Perfluorotetradeca | | 376-06-7 | N.D. | 0.29 | 0.78 | 1 |
| 14027 | Perfluorotridecano | ic acid | 72629-94-8 | N.D. | 0.59 | 1.2 | 1 1 |
| 14027 | Perfluoroundecanoi | c acid | 2058-94-8 | 1.2 | 0.29 | 0.59 | 1 |
| Wet C | hemistry | SM 2540 | G-1997 | % | % | 8 | |
| 00111 | Moisture | Tan Land | n.a. | 4.8 | 0.50 | 0.50 | 1 |
| JULII | Moisture represent 103 - 105 degrees as-received basis. | Celsius. The | n weight of the | sample after ov | en drying at | | |

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record Method Analyst Dilution Trial# Batch# Analysis CAT Analysis Name Date and Time Factor 11/15/2016 22:05 Atulbhai Patel 16315006 14027 14 PFCs in Soil EPA 537 Rev. 1.1 1 modified 1 16315006 11/10/2016 16:30 Devon M Whooley 14090 PFC Solid Prep EPA 537 Rev. 1.1 modified 11/16/2016 13:15 Larry E Bevins 00111 Moisture SM 2540 G-1997 16321820005A



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 009-LINE PIT 1 Grab Soil

FORT DRUM

LL Sample # SW 8670114

LL Group # 1726839

Account

38055

Project Name: Fort Drum

Collected: 10/26/2016 14:32

Converse Laboratories, Inc.

800 Starbuck Ave

Suite B101

Watertown NY 13601

Submitted: 10/29/2016 09:20 Reported: 12/08/2016 10:36

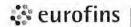
| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|------------|------------------------|---|------------------|-----------------------------------|---------------------------------|--------------------|
| Misc. | Organics EF | A 537 Rev. 1.1 | ng/g | ng/g | ng/g | |
| | mo | dified | | | | |
| 14027 | NETFOSAA | 2991-50-6 | N.D. | 1.0 | 3.1 | 1 |
| | | m for N-ethyl perfluoro | octanesulfonamid | oacetic Acid. | | |
| 14027 | NMeFOSAA | 2355-31-9 | N.D. | 1.0 | 3.1 | 1 |
| | NMeFOSAA is the acrony | m for N-methyl perfluor | ooctanesulfonami | doacetic Acid. | | |
| 14027 | Perfluorobutanesulfona | | N.D. | 0.51 | 1.6 | 1 |
| 14027 | Perfluorodecanoic acid | 335-76-2 | N.D. | 0.21 | 0.41 | 1 |
| 4027 | Perfluorododecanoic ac | id 307-55-1 | N.D. | 0.41 | 0.82 | |
| 14027 | Perfluoroheptanoic aci | d 375-85-9 | N.D. | 0.31 | 0.62 | 1 |
| 4027 | Perfluorohexanesulfona | te 355-46-4 | N.D. | 0.51 | 1.6 | |
| 14027 | Perfluorohexanoic acid | 307-24-4 | 1.9 | 0.21 | 0.41 | 1 1 1 |
| 14027 | Perfluorononanoic acid | 375-95-1 | N.D. | 0.21 | 0.41 | 1 |
| 14027 | Perfluoro-octanesulfon | ate 1763-23-1 | N.D. | 0.72 | 1.6 | |
| 14027 | Perfluorooctanoic acid | 335-67-1 | N.D. | 0.31 | 0.62 | 1 |
| 14027 | Perfluorotetradecanoic | acid 376-06-7 | N.D. | 0.31 | 0.82 | 1 |
| 14027 | Perfluorotridecanoic a | cid 72629-94-8 | N.D. | 0.62 | 1.2 | 1 |
| 14027 | Perfluoroundecanoic ac | id 2058-94-8 | N.D. | 0.31 | 0.62 | 1 |
| let C | hemistry Si | M 2540 G-1997 | % | % | 8 | |
| 00111 | Moisture | n.a. | 6.1 | 0.50 | 0.50 | 1 |
| | | e loss in weight of the sius. The moisture resul | | | | |

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record Method Dilution Trial# Batch# Analysis Analyst CAT Analysis Name Date and Time Factor 16315006 Atulbhai Patel 11/15/2016 22:21 14027 14 PFCs in Soil EPA 537 Rev. 1.1 1 modified 16315006 Devon M Whooley 1 14090 PFC Solid Prep EPA 537 Rev. 1.1 1 11/10/2016 16:30 modified 00111 Moisture SM 2540 G-1997 1 16321820005A 11/16/2016 13:15 Larry E Bevins



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: 002 OWS Soil

FORT DRUM

LL Sample # SW 8670115

LL Group # 1726839 Account # 38055

Project Name: Fort Drum

Collected: 10/26/2016 14:11

Converse Laboratories, Inc.

800 Starbuck Ave

Suite B101

Watertown NY 13601

Submitted: 10/29/2016 09:20 Reported: 12/08/2016 10:36

| CAT No. | Analysis Name | | CAS Number | Dry Resul | 2 | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|------------|---|---------------|--------------------------------|--------------------|------------------------|-----------------------------------|---------------------------------|--------------------|
| Misc. | Organics | EPA 537 | Rev. 1.1 | ng/g | | ng/g | ng/g | |
| | | modified | | | | | | |
| 14027 | NELFOSAA | | 2991-50-6 | N.D. | | 1.0 | 3.1 | 1 |
| | NEtFOSAA is the a | cronym for N- | ethyl perfluoro | octanesu | fonamidoa | acetic Acid. | | |
| 14027 | NMeFOSAA | | 2355-31-9 | N.D. | | 1.0 | 3.1 | 1 |
| | NMeFOSAA is the a | cronym for N- | methyl perfluor | octanes | ulfonamido | pacetic Acid. | | |
| 14027 | Perfluorobutanesu | | 375-73-5 | N.D. | | 0.52 | 1.7 | 1 |
| 14027 | Perfluorodecanoic | acid | 335-76-2 | 0.45 | | 0.21 | 0.42 | 1 |
| 14027 | Perfluorododecano | ic acid | 307-55-1 | N.D. | | 0.42 | 0.83 | 1 |
| 14027 | Perfluoroheptanoi | c acid | 375-85-9 | 0.31 | J | 0.31 | 0.62 | 1 |
| 14027 | Perfluorohexanesu | lfonate | 355-46-4 | N.D. | | 0.52 | 1.7 | 1 |
| 14027 | Perfluorohexanoic | acid | 307-24-4 | 0.29 | J | 0.21 | 0.42 | 1 |
| 14027 | Perfluorononanoic | acid | 375-95-1 | N.D. | | 0.21 | 0.42 | 1 |
| 14027 | Perfluoro-octanes | ulfonate | 1763-23-1 | 13 | | 0.73 | 1.7 | 1 |
| 14027 | Perfluorooctanoic | acid | 335-67-1 | 0.43 | J | 0.31 | 0.62 | 1 |
| 14027 | Perfluorotetradec | anoic acid | 376-06-7 | N.D. | | 0.31 | 0.83 | 1 |
| 14027 | Perfluorotridecan | oic acid | 72629-94-8 | N.D. | | 0.62 | 1.2 | 1 |
| 14027 | Perfluoroundecano | ic acid | 2058-94-8 | N.D. | | 0.31 | 0.62 | 1 |
| Vet C | hemistry | SM 2540 | G-1997 | 96 | | % | 96 | |
| 00111 | Moisture | | n.a. | 4.4 | | 0.50 | 0.50 | 1 |
| | Moisture represen 103 - 105 degrees as-received basis | Celsius. The | n weight of the moisture resul | sample t report | after over ed is on | n drying at an | | |

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record Method Trial# Batch# Analysis Analyst Dilution CAT Analysis Name Date and Time Factor 16315006 11/15/2016 22:38 Atulbhai Patel 14027 14 PFCs in Soil EPA 537 Rev. 1.1 1 modified 1 Devon M Whooley 16315006 11/10/2016 16:30 14090 PFC Solid Prep EPA 537 Rev. 1.1 1 modified 1 16321820005A Larry E Bevins 00111 Moisture SM 2540 G-1997 1 11/16/2016 13:15

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

ANALYTICAL RESULTS

Prepared by:

Prepared for:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 Converse Laboratories, Inc. 800 Starbuck Ave Suite B101 Watertown NY 13601

Report Date: December 08, 2016

Project: Fort Drum

Submittal Date: 10/29/2016 Group Number: 1726839 PO Number: EUL16-1650 State of Sample Origin: NY

| | Lancaster Labs |
|-----------------------------|----------------|
| Client Sample Description | (LL) # |
| OWS-001 Composite Soil | 8670110 |
| 003-OIL TANK Composite Soil | 8670111 |
| 005-LINE PIT 3 Grab Soil | 8670112 |
| 007-LINE PIT 2 Grab Soil | 8670113 |
| 009-LINE PIT 1 Grab Soil | 8670114 |
| 002 OWS Soil | 8670115 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/. To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To Converse Laboratories, Inc. Attn: Customer Service Electronic Copy To Converse Laboratories, Inc. Attn: Donna K Zang

Respectfully Submitted,

Angela M. Miller

Specialist

(717) 556-7260

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Quality Control Summary

Client Name: Converse Laboratories, Inc.

Reported: 12/08/2016 10:36

Group Number: 1726839

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

| Analysis Name | Result | MDL** | TOÖ |
|-----------------------------|------------|-------------|--------------|
| | ng/g | ng/g | ng/g |
| Batch number: 16315006 | Sample num | ber(s): 867 | 0110-8670115 |
| NETFOSAA | N.D. | 1.0 | 3.0 |
| NMeFOSAA | N.D. | 1.0 | 3.0 |
| Perfluorobutanesulfonate | N.D. | 0.50 | 1.6 |
| Perfluorodecanoic acid | N.D. | 0.20 | 0.40 |
| Perfluorododecanoic acid | N.D. | 0.40 | 0.80 |
| Perfluoroheptanoic acid | N.D. | 0.30 | 0.60 |
| Perfluorohexanesulfonate | N.D. | 0.50 | 1.6 |
| Perfluorohexanoic acid | N.D. | 0.20 | 0.40 |
| Perfluorononanoic acid | N.D. | 0.20 | 0.40 |
| Perfluoro-octanesulfonate | N.D. | 0.70 | 1.6 |
| Perfluorooctanoic acid | N.D. | 0.30 | 0.60 |
| Perfluorotetradecanoic acid | N.D. | 0.30 | 0.80 |
| Perfluorotridecanoic acid | N.D. | 0.60 | 1.2 |
| Perfluoroundecanoic acid | N.D. | 0.30 | 0.60 |

LCS/LCSD

| Analysis Name | LCS Spike Added ng/g | LCS Conc ng/g | LCSD Spike Added ng/g | LCSD Conc ng/g | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|-----------------------------|----------------------------|---------------------|-----------------------------|----------------------|-------------|--------------|--------------------|-----|------------|
| Batch number: 16315006 | Sample numbe | r(s): 86703 | 110-8670115 | | | | | | |
| NEtFOSAA | 20 | 21.21 | 20 | 20.6 | 106 | 103 | 70-130 | 3 | 30 |
| NMeFOSAA | 20 | 25.52 | 20 | 23.5 | 128 | 118 | 70-130 | 8 | 30 |
| Perfluorobutanesulfonate | 17.7 | 17.23 | 17.7 | 15.7 | 97 | 89 | 70-130 | 9 | 30 |
| Perfluorodecanoic acid | 20 | 19.67 | 20 | 19.43 | 98 | 97 | 70-130 | 1 | 30 |
| Perfluorododecanoic acid | 20 | 15.97 | 20 | 16.13 | 80 | 81 | 70-130 | 1 | 30 |
| Perfluoroheptanoic acid | 20 | 21.09 | 20 | 21.7 | 105 | 109 | 70-130 | 3 | 30 |
| Perfluorohexanesulfonate | 18.9 | 19.86 | 18.9 | 17.74 | 105 | 94 | 70-130 | 11 | 30 |
| Perfluorohexanoic acid | 20 | 20,01 | 20 | 18.74 | 100 | 94 | 70-130 | 7 | 30 |
| Perfluorononanoic acid | 20 | 16.02 | 20 | 17.22 | 80 | 86 | 70-130 | 7 | 30 |
| Perfluoro-octanesulfonate | 19.1 | 16.81 | 19.1 | 15.36 | 88 | 80 | 70-130 | 9 | 30 |
| Perfluorooctanoic acid | 20 | 18.37 | 20 | 17.29 | 92 | 86 | 70-130 | 6 | 30 |
| Perfluorotetradecanoic acid | 20 | 17.4 | 20 | 17.46 | 87 | 87 | 70-130 | 0 | 30 |
| Perfluorotridecanoic acid | 20 | 21.08 | 20 | 19.7 | 105 | 99 | 70-130 | 7 | 30 |
| Perfluoroundecanoic acid | 20 | 14.18 | 20 | 14.5 | 71 | 73 | 70-130 | 2 | 30 |

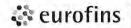
^{*-} Outside of specification

P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

^{**-}This limit was used in the evaluation of the final result for the blank

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Quality Control Summary

Client Name: Converse Laboratories, Inc.

Reported: 12/08/2016 10:36

Group Number: 1726839

LCS/LCSD (continued)

| Analysis Name | LCS Spike Added % | LCS Conc | LCSD Spike Added % | LCSD Conc % | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|----------------------------|-------------------------|-------------|--------------------------|-------------------|-------------|--------------|--------------------|-----|------------|
| Batch number: 16321820005A | Sample number | | 110-8670115 | | 0.620 | | (20) 923. | | |
| Moisture | 89.5 | 89.43 | | | 100 | | 99-101 | | |

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

| Analysis Name | Unspiked Conc ng/g | MS Spike Added ng/g | MS Conc ng/g | MSD Spike Added ng/g | MSD Conc ng/g | MS %Rec | MSD %Rec | MS/MSD Limits | RPD | RPD Max |
|-----------------------------|--------------------------|---------------------------|--------------------|----------------------------|---------------------|------------|-------------|------------------|-----|------------|
| Batch number: 16315006 | Sample numb | er(s): 8670 | 110-867 | 0115 UNSPK: | P680113 | | | | | |
| NETFOSAA | N.D. | 19.12 | 21.54 | | | 113 | | 70-130 | | |
| NMeFOSAA | N.D. | 19.12 | 24.75 | | | 129 | | 70-130 | | |
| Perfluorobutanesulfonate | N.D. | 16.92 | 15.26 | | | 90 | | 70-130 | | |
| Perfluorodecanoic acid | N.D. | 19.12 | 17.65 | | | 92 | | 70-130 | | |
| Perfluorododecanoic acid | N.D. | 19.12 | 15.48 | | | 81 | | 70-130 | | |
| Perfluoroheptanoic acid | N.D. | 19.12 | 17.6 | | | 92 | | 70-130 | | |
| Perfluorohexanesulfonate | N.D. | 18.07 | 17.96 | | | 99 | | 70-130 | | |
| Perfluorohexanoic acid | N.D. | 19.12 | 17.22 | | | 90 | | 70-130 | | |
| Perfluorononanoic acid | N.D. | 19.12 | 16.81 | | | 88 | | 70-130 | | |
| Perfluoro-octanesulfonate | N.D. | 18.26 | 15.74 | | | 86 | | 70-130 | | |
| Perfluorooctanoic acid | N.D. | 19.12 | 17.57 | | | 92 | | 70-130 | | |
| Perfluorotetradecanoic acid | N.D. | 19.12 | 18.51 | | | 97 | | 70-130 | | |
| Perfluorotridecanoic acid | N.D. | 19.12 | 20.37 | | | 107 | | 70-130 | | |
| Perfluoroundecanoic acid | N.D. | 19.12 | 16.39 | | | 86 | | 70-130 | | |
| | | | | | | | | | | |

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | BKG Conc | DUP Conc | DUP RPD | DUP RPD Max |
|----------------------------|-------------------|----------------------|---------|-------------|
| | % | % | | |
| Batch number: 16321820005A | Sample number(s): | 8670110-8670115 BKG: | P691156 | |
| Moisture | 99.94 | 99.94 | 0 | 5 |

P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

^{*-} Outside of specification

^{**-}This limit was used in the evaluation of the final result for the blank

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

| Client: Converse Laboratories, INC. | | | | Matrix | × | 1 | Analyses | Analyses Requested | For Lab Use Only | Only |
|--|----------------------|------------|-----------------------|------------------|-------------------------------------|------------|----------|--------------------|--------------------------------------|-----------------|
| Na | Site ID #: | | | | | | Preserva | Preservation Codes | % ₩ ₩ | |
| Project Manager: | P.O. #: | EUL16-1650 | 0 | | 2011 | | | | SCR#: | |
| Sampler: | PWSID #: | 22 | | Groi | | | | | Preservation Codes | n Codes |
| Phone #: 315-788-8388 | Quote #: | | | tn | | N.C. | | | H=HCI | T = Thiosulfate |
| ere samples were collected: NY | For Compliance: Yes | Yes | □ ∾ | | stno | | | | N = HNO ₃ | B = NaOH |
| | Col | Collection | o | be2 ≥ | | | | | S = H ₂ SO ₄ P | P=H3PO4 |
| Sample Identification | Date | Time | Gral TroO | lio2 JsW | | | | | Remarks | rks |
| OWS-001 | 26-Oct | 1409 a | X | | × | | | | | |
| 003-OIL TANK | 26-Oct | 1415 a | X | | × | | | | | |
| 005-LINE PIT 3 | 26-Oct | 1427 P | × | | × | | | | | |
| 007-LINE PIT 2 | 26-Oct | 1425 P | × | | x | | | | | |
| 009-LINE PIT 1 | 26-Oct | 1432 P | × | | × | | | | | |
| | | | | | × | | | | | |
| | | | | | | | | | | |
| Teniant Provided Sample Container | ple Container | | | | | | | | | |
| (Soil simples) | | , | | | | | | | | |
| | samples resonance | arned | 27 4 | incusto | 1 5\$ 10-38-10 | 11-81 | | | | |
| Turnaround Time Requested (TAT) (please check): Standard (Descentible Standards): Standards | and sing | Standard | Rush | Relinquished by | ned by: | Date | Time | Received by: | Date 10-38-16 | Time 0800 |
| Date results are needed: 11/11/16 | | , | | Relinquished by: | d by: Oly | Date | Time | Received by: | Date | Time |
| y (please check): | E-Mail | Phone | | X | gron | 10,28-16 | 1600 | | | |
| @con, | erselabs.con | CI. | | Relinquished by: | Ç <u>i</u> ya p | Date | Time | Received by: | Date | Time |
| ackage Options (please check if | red) | r | And the second second | Relinquished by: | d.by. | Date | Time | Received by: | Date | Firme |
| | ر م | <u>}</u> | | Relinquished by | d bv: | Date | Time | Received by: | Date | Time |
| Type VI (Raw Data Only) | CLINCE TX TRRP-13 | 7 [7] | | | | | | Kunt | 199/14 | 1920 |
| | NYSDEC Category | □ A or | B | Relinquishe | Relinquished by Commercial Carrier. | l Carrier: | | | カー | Pos Au |
| A Charles of Contract of Contr | | | | 001 | - LTL | 1110 | | | | |

Page 10 of 13

🔆 eurofins

Lancaster Laboratories Environmental

Client: CLI

Receipt Documentation Log Sample Administration

Doc Log ID:

166708

1726839 Group Number(s):

| | Deliver | y and R | Delivery and Receipt Information | | |
|--------------------------------------|-----------------|----------------|-------------------------------------|------------------|----|
| Delivery Method: | UPS | | Arrival Timestamp: | 10/29/2016 9:20 | O |
| Number of Packages: | , -1 | | Number of Projects: | - -I | |
| State/Province of Origin: | N× | | | | |
| | Arriv | al Cond | Arrival Condition Summary | | |
| Shipping Container Sealed: | | Yes | Sample IDs on COC match Containers: | atch Containers: | No |
| Custody Seal Present: | | Yes | Sample Date/Times match COC: | atch COC: | 2º |
| Custody Seal Intact: | | Yes | VOA Vial Headspace ≥ 6mm. | 6mm; | NA |
| Samples Chilled: | | Yes | Total Trip Blank Qty: | 0 | |
| Paperwork Enclosed: | | Yes | Air Quality Samples Present: | esent: | Š |
| Samples Intact: | | Yes | | | |
| Missing Samples: | | o _N | | | |
| Extra Samples: | | Yes | | | |
| Discrepancy in Container Qty on COC: | y on COC: | 8 | | | |

| 43 | All Temperatures in °C. |
|-----------------|------------------------------|
| thilled Details | IR = Infrared (Surface Temp) |
| Samples | DT = Digital (Temp. Bottle) |
| | Thermometer Types: |

Unpacked by Karen Diem (3060) at 09:47 on 10/29/2016

Elevated Temp? ice Container ice Type Ice Present? Extra Sample Details Wet Therm, Type ĸ Corrected Temp 5.0 Cooler # Thermometer ID 32170023

10/26/2016 14:11 Date on Label Sample ID on Label Number of Extra Containers 002 OWS

Comments

Sample ID Discrepancy Details Comments

Sample ID on Label LINE PIT 3 006 LINE PIT 2 008 LINE PIT 2 010 01 WATER TANK 004 OIL TANK 003-OIL TANK 005-LINE PIT 3 007-LINE PIT 2 Sample ID on COC 009-LINE PIT OWS-001

2425 New Holland Pike Lancaster, PA 17505-2425

i 717-656-2300 F 717-656-2681 www.LancasterLabs.cof Page 11 of 13



Sample Administration Receipt Documentation Log

Doc Log ID:

166708

Group Number(s):

Client: CLI

Sample ID on COC

OWS-001

003-OIL TANK 005-LINE PIT 3

005-LINE PIT 3

010-LINE PIT 1

010-LINE PIT 1

Sample Date/Time Discrepancy Details

Comments

Date/Time on Label

10/27/2016 11:10

10/26/2016 14:17

10/26/2016 14:28

10/26/2016 14:25

General Comments: rcvd samples 01 Water Tank 11:10 10/27/16

10/26/2016 14:34

10/26/2016 14:34



Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

| BMQL | Below Minimum Quantitation Level | mg | milligram(s) |
|-----------------|----------------------------------|----------|-------------------------------|
| C | degrees Celsius | mL | milliliter(s) |
| cfu | colony forming units | MPN | Most Probable Number |
| CP Units | cobalt-chloroplatinate units | N.D. | none detected |
| F | degrees Fahrenheit | ng | nanogram(s) |
| g | gram(s) | NTU | nephelometric turbidity units |
| ΙŬ | International Units | pg/L | picogram/liter |
| kg | kilogram(s) | RL | Reporting Limit |
| Ĺ | liter(s) | TNTC | Too Numerous To Count |
| lb. | pound(s) | μg | microgram(s) |
| m3 | cubic meter(s) | μL | microliter(s) |
| meq | milliequivalents | umhos/cm | micromhos/cm |
| | | | |

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an

as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank

C - Result confirmed by reanalysis

E - Concentration exceeds the calibration range

J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)

P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.

U - Analyte was not detected at the value indicated

V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference...

W - The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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CONVERSE LABORATORIES, INC.

Watert (315) 7

| ERSE LABORATORIES, INC. | | 6 | 0501-BINIX | |
|-------------------------------|--------------------------|-------------------------------------|---------------------|--|
| tarbuck Ave., Suite B101 | | Chain of Custoc | N TOO | |
| town, NY 13601 | | | 1 | |
| 788-8388 www.converselabs.com | bs.com | | Page of | |
| | Client Project ID / PO#: | Matrix Codes | Sample Information: | |
| | Govt Credit Card | DW= Drinking Water GW= Ground Water | Finished Raw | |
| | | WW= Waste Water SL= Sludge | Chlorinated UV | |

| Sample Information: | Finished | Chlorinated UV | NOTES TO LABORATORY | | | Rush TAT Date Needed: a.m./p.m. | ANALYSIS / TEST | REQUESTED SAMPLE ID # | 14PFC Spi1/5/wolg | | | | 7 | | AUTHORIZED RE | Time Temp INFO: | | 700 | 12215 | SAMPLE(S | | |
|--------------------------|-------------------------------------|--|----------------------|---|-------------------------------------|----------------------------------|--|----------------------------|-------------------|-----|------|----------------|--|--|---------------|-------------------|-------|------------|-------------|-------------|------------|-------------|
| Matrix Codes | DW= Drinking Water GW= Ground Water | WW= Waste Water SL= Sludge SW= Surface Water SO= Soil | Preservative Codes | _ო | $4=HNO_3$ $5=NaOH$ $6=Asorbic Acid$ | 10= | List Preservative Code Below | o€) | | | | | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | | by: Date | | _ | 1200 | | | |
| Client Project ID / PO#: | Govt Credit Card | | | | ds se | esidus | ne R | G = Gr Matrix Chlori | 5 | 7 7 | 7 | 2 6 | 2 | | | Time Received by: | - | 7 | 100 M | | | 7 |
| | | | Fax#: 315-772-8050 | nail.mil | rell | To 9 | Control of the contro | Sample Identification | 1 / / - >(/ / | 101 | H | 007 - Kine Pit | 009 - Line Pit 1 | | | Date | 127/1 | | 10/00/16 | 9/10 | 04/10 | 9//10 |
| | | ilent Address: | hone #: 315-523-2143 | Mail address: diane.h.covell.civ@mail.mil | Contact/Report to: Diane Covell | Sampler: M. D. | | | | 1 | 143/ | 1435 | W 1432 | | | Relinquished by: | | 11000 0100 | Mare Covell | Mare Covell | Mare Cover | Mare Covell |

Doc. # 357 12/19/2013

Rev. # 12 Page 1 of 1

Amt. Daid:
Cash:
Credit:

Initial Review:
Transcriptual Rev.:



of Custody

of

Page

CONVERSE LABORATORIES, INC. ررس Starbuck Ave., Suite B101

(315) 788-8388 www.converselabs.com Watertown, NY 13601

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| | | Client Project ID / PO# : | ect ID | : #Od | | | Matrix Codes | | Ì | Sample Information: | |
|---|-----------------------|---------------------------|------------|-------------|--|--|--|---------------|-------|--|-------------|
| Client Address: | | | 2 2 2 | | | DW= Drinking WW= W | DW= Drinking Water GW= Ground Water WW= Waste Water SL= Sludge | d Water ge | E 등 | Finished Raw Chlorinated UV | |
| | | | | | | S.W=S | SW= Surface Water SO= Soil | lic I | | отнек: | |
| Phone #: 315-523-2143 Fa | Fax#: 315-772-8050 | -(2,60,7,00) | | | | Pres | Preservative Codes | | | NOTES TO LABORATORY | IRY |
| E-Mail address: diane.h.covell.civ@mail.mil | | | əti | θΛG | | 1= Na ₂ S ₂ O ₃ | 2= HCl 3= H ₂ SO ₄ | | | | |
| Contact/Report to: Diane Covell | | | sodu | | 1 | | 5= NaOH 6= Asorbic Acid | Acid | | nal TAT | |
| Sampler: Anthon Rub | bore | | no) = (| 2000 | - | /= NH ₄ CL | 10= | Ì | Rush | Rush TAT Date Needed: | a.m./p.m. |
| | Sample Identification | tion |) ds10 = 0 | ee - xintsM | H eninoldO ———————————————————————————————————— | 00 | List Preservative Code Below | elow | | ANALYSIS / TEST SEQUESTED ((| SAMPLE ID # |
| 1105 011 | WATERTON | | | | | | | | 91 | PFL Soll/sludge | |
| | | | | | | | | | | | |
| Relinquished by: | Date | Time | | | Received by: | d by: | Date | Time | Temp° | AUTHORIZED RECIPIENTS & CONTACT INFO: | S & CONTACT |
| we Covere | 10/27/16 | 1415 | D | MIR | 3 | 33 | ماالحاما | <u>7</u> | | | |
| | | | | | | | | | | SAMPLE(S) AS RECEIVED CONFORM TO NELAC STANDARDS | CONFORM TO |
| | | | | | | | | | | YES | ON |
| | | | | | | | | | | IF NO, SEE ATTACHED SHEET | SHEET |

Doc. # 357 12/19/2013

Rev. # 12 Page 1 of 1

Check# Cash: Credit: Amt. Due: Amt. Paid:

Transcriptual Rev.: Final Review Initial Review:

Environmental Analysis Request/Chain of Custody

| Client: Converse Laboratories, INC. | | | | Matrix | | | Analyses | Analyses Requested | For Lab Use Only | e Only |
|---|---------------------|------------|------|---------------------|-------------------------------------|---------------|----------|--|---|------------------------------------|
| Project Name/#: FORT DRUM | Site ID #: | | | | | | Preserva | Preservation Codes | SF#: | |
| Project Manager: | P.O. #: | EUL16-1650 | | ese, nuq sane | | | | | SCR #: | 1 |
| Sampler: | PWSID #: | | | Groi | | (sp | | | Preservation Codes | on Codes |
| Phone #: 315-788-8388 | Quote #: | | | | ainer | unoc | | | IDH == | T = Thiosulfate |
| ere samples were collected: NY | For Compliance: Yes | Yes | No | amine able | | dwog | | | N = HNO ₃ | B = NaOH |
| | Colle | Collection | | Pots 19 | | D &r IIA) | | | S = H ₂ SO ₄ O = Other | P = H ₃ PO ₄ |
| Sample Identification | Date | Time | Gral | Soil | Otho | PFC | | | Remarks | arks |
| OWS-001 | 26-0ct | 1409 p. | | x | | x | | | | |
| 003-OIL TANK | 26-Oct | 1415 p. | | x | | × | | | | |
| 005-LINE PIT 3 | 26-0ct | 1427 P | × | | | x | | | | |
| 007-LINE PIT 2 | 26-Oct | 1425 P | × | | | x | | | | |
| 009-LINE PIT 1 | 26-Oct | 1432 P | × | | | × | | | | |
| | | | | | | × | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | - (| i | | | F |
| Furnaround Time Requested (TAT) (please check): Standard (Rush TAT is subject to laboratory approval and surcharges.) | and sur | <u> </u> | Rush | Relinquished by: | d by: | Date 10 [2] | E SZ - | Received by: | Date | e III |
| Date results are needed: 11/11/16 | | | | Relinquished by: | d by: | Date | Time | Received by: | Date | Time |
| y (please check): | E-Mail 🖸 | Phone | | | | | | | | |
| E-mail Address: customerservice2@converselabs.com | rselabs.com | | | Relinquished by: | d by: | Date | Time | Received by: | Date | Time |
| Phone: Data Package Options (please check if required) Tyne I (Validation/non-CIP) MA MCP | P d | | | Relinquished by: | d by: | Date | Time | Received by: | Date | Time |
| | . P-13 | | | Relinquished by: | d by: | Date | Time | Received by: | Date | Time |
| | NYSDEC Category | □ A or | B □ | Relinquished | Relinquished by Commercial Carrier. | sial Carrier: | | | | |
| | | | | Г | | | | The state of the s | | (0 |

ANALYTICAL RESULTS

Prepared by:

Prepared for:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 Converse Laboratories, Inc. 800 Starbuck Ave Suite B101 Watertown NY 13601

Report Date: August 08, 2016

Project: Fort Drum

Submittal Date: 06/10/2016 Group Number: 1670726 PO Number: EUL 16-0865 State of Sample Origin: NY

| | Lancaster Labs |
|--------------------------------|----------------|
| Client Sample Description | (LL)# |
| Fire Pit Sludge Grab Sediment | 8420240 |
| Pit #1 Grab Soil | 8420241 |
| Fire Pit Overhang #1 Grab Soil | 8420242 |
| Fire Pit Overhang #2 Grab Soil | 8420243 |
| Fire Pit Overhang #3 Grab Soil | 8420244 |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/.

Electronic Copy To Electronic Copy To Converse Laboratories, Inc.

Converse Laboratories, Inc.

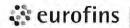
Attn: Customer Service Attn: Donna K Zang

Respectfully Submitted,

Angela M. Miller

Specialist

(717) 556-7260



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: Fire Pit Sludge Grab Sediment

Fort Drum

LL Sample # SW 8420240

LL Group # 1670726 Account # 38055

Project Name: Fort Drum

Collected: 06/09/2016 12:40 by DC

Converse Laboratories, Inc.

800 Starbuck Ave

Suite B101

Watertown NY 13601

Submitted: 06/10/2016 09:25 Reported: 08/08/2016 10:47

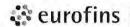
| CAT No. | Analysis Name | | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|------------|---|-----------------|-------------------------------------|------------------|-----------------------------------|---------------------------------|--------------------|
| Misc. | Organics | | Rev. 1.1 | ng/g | ng/g | ng/g | |
| | | modifie | d | | | | |
| 14027 | Perfluorobutanesu | lfonate | 375-73-5 | 38 | 1.7 | 5.4 | 1 |
| 14027 | Perfluorodecanoic | acid | 335-76-2 | 79 | 0.68 | 1.4 | 1 |
| 14027 | Perfluorododecano | ic acid | 307-55-1 | 110 | 1.4 | 2.7 | 1 |
| 14027 | Perfluoroheptanoi | c acid | 375-85-9 | 95 | 1.0 | 2.0 | 1 |
| 14027 | Perfluorohexanesu | lfonate | 355-46-4 | 330 | 1.7 | 5.4 | 1 |
| 14027 | Perfluorohexanoic | acid | 307-24-4 | 1,600 | 6.8 | 14 | 10 |
| 14027 | Perfluorononanoic | acid | 375-95-1 | 34 | 0.68 | 1.4 | 1 |
| 14027 | Perfluoro-octanes | ulfonate | 1763-23-1 | 11,000 | 240 | 540 | 100 |
| 14027 | Perfluorooctanoic | acid | 335-67-1 | 200 | 1.0 | 2.0 | 1 |
| 14027 | Perfluorotetradec | anoic acid | 376-06-7 | 57 | 1.0 | 2.7 | 1 |
| 14027 | Perfluorotridecan | 7 m 7 M 7 m 7 m | 72629-94-8 | 73 | 2.0 | 4.1 | 1 |
| 14027 | Perfluoroundecano | ic acid | 2058-94-8 | 51 | 1.0 | 2.0 | 1 |
| can Due | stated QC limits as be obtained to calc to a preparation es reanalysis was per | culate stations | stical limits. action was requir | ed for this samp | | | |
| Wet C | hemistry | SM 2540 | G-1997 | % | % | % | |
| 00111 | Moisture | | n.a. | 70.5 | 0.50 | 0.50 | 1 |
| | Moisture represen 103 - 105 degrees as-received basis | Celsius. Th | | | | | |

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record Method CAT Dilution Analysis Name Trial# Batch# Analysis Analyst Date and Time Factor 14027 14 PFCs in Soil EPA 537 Rev. 1.1 1 16204006 07/26/2016 21:11 Marissa C modified Drexinger 14027 14 PFCs in Soil EPA 537 Rev. 1.1 16204006 08/03/2016 17:07 Marissa C 10 modified Drexinger 14027 14 PFCs in Soil EPA 537 Rev. 1.1 16204006 100 08/03/2016 18:10 Marissa C modified Drexinger EPA 537 Rev. 1.1 07/25/2016 10:55 14090 PFC Solid Prep 16204006 Devon M Whooley 1 modified Scott W Freisher 00111 Moisture 16181820002A 06/29/2016 23:22 SM 2540 G-1997



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: Pit #1 Grab Soil

Fort Drum

LL Sample # SW 8420241

LL Group # 1670726

Account

38055

Project Name: Fort Drum

Collected: 06/09/2016 13:10 by DC Converse Laboratories, Inc.

800 Starbuck Ave

Suite B101

Submitted: 06/10/2016 09:25 Reported: 08/08/2016 10:47

Watertown NY 13601

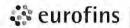
| CAT No. | Analysis Name | | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|------------|--|------------------------------|-----------------------------------|-------------------|-----------------------------------|---------------------------------|--------------------|
| Misc. | Organics | | Rev. 1.1 | ng/g | ng/g | ng/g | |
| | | modified | | | | | |
| 14027 | Perfluorobutanesul | fonate | 375-73-5 | N.D. | 0.53 | 1.7 | 1 |
| 14027 | Perfluorodecanoic | acid | 335-76-2 | N.D. | 0.21 | 0.42 | 1 |
| 14027 | Perfluorododecanoi | c acid | 307-55-1 | N.D. | 0.42 | 0.85 | 1 |
| 14027 | Perfluoroheptanoio | acid | 375-85-9 | N.D. | 0.32 | 0.64 | 1 |
| 14027 | Perfluorohexanesul | fonate | 355-46-4 | 8.4 | 0.53 | 1.7 | 1 |
| 14027 | Perfluorohexanoic | acid | 307-24-4 | 2.2 | 0.21 | 0.42 | 1 |
| 14027 | Perfluorononanoic | acid | 375-95-1 | 7.4 | 0.21 | 0.42 | 1 |
| 14027 | Perfluoro-octanesu | lfonate | 1763-23-1 | 210 | 0.74 | 1.7 | 1 |
| 14027 | Perfluorooctanoic | acid | 335-67-1 | 12 | 0.32 | 0.64 | 1 |
| 14027 | Perfluorotetradeca | noic acid | 376-06-7 | N.D. | 0.32 | 0.85 | 1 |
| 14027 | Perfluorotridecand | ic acid | 72629-94-8 | N.D. | 0.64 | 1.3 | 1 |
| 14027 | Perfluoroundecanoi | c acid | 2058-94-8 | N.D. | 0,32 | 0.64 | 1 |
| can Due | stated QC limits ar be obtained to calc to a preparation er reanalysis was perf | ulate statis ror, reextra | tical limits. ction was requir | red for this samp | | | |
| Wet C | hemistry | SM 2540 | G-1997 | % | % | 8 | |
| 00111 | Moisture | | n.a. | 5.7 | 0.50 | 0.50 | 1 |
| | Moisture represent 103 - 105 degrees as-received basis | Celsius. The | | | | | |

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record Method Analyst Dilution Trial# Batch# Analysis Analysis Name CAT Date and Time Factor 16204006 14027 14 PFCs in Soil EPA 537 Rev. 1.1 1 07/26/2016 22:40 Marissa C modified Drexinger 14090 PFC Solid Prep EPA 537 Rev. 1.1 2 16204006 06/28/2016 11:35 Devon M Whooley 1 modified SM 2540 G-1997 16181820002A 06/29/2016 23:22 Scott W Freisher 00111 Moisture



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: Fire Pit Overhang #1 Grab Soil

Fort Drum

LL Sample # SW 8420242

LL Group # 1670726 Account # 38055

Project Name: Fort Drum

Collected: 06/09/2016 12:50 by DC Converse Laboratories, Inc.

800 Starbuck Ave

Suite B101

Submitted: 06/10/2016 09:25 Reported: 08/08/2016 10:47

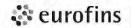
Watertown NY 13601

| No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|---|---|---|---|--|---|---|
| Misc. | | PA 537 Rev. 1.1 | ng/g | ng/g | ng/g | |
| 14027 | Perfluorobutanesulfona | | N.D. | 0.53 | 1.7 | 1 |
| 14027 | Perfluorodecanoic acid | | 1.1 | 0.33 | 0.42 | î |
| 14027 | Perfluorododecanoic ac | | N.D. | 0.42 | 0.84 | 1 |
| 14027 | Perfluoroheptanoic aci | | 0.38 J | 0.32 | 0.63 | ı |
| 14027 | Perfluorohexanesulfona | | 12 | 0.53 | 1.7 | 1 |
| 14027 | Perfluorohexanoic acid | | 9.1 | 0.21 | 0.42 | 1 |
| 14027 | Perfluorononanoic acid | | 7.3 | 0.21 | 0.42 | 1 |
| 14027 | Perfluoro-octanesulfon | | 350 | 0.74 | 1.7 | 1 |
| 14027 | Perfluorooctanoic acid | | 1.3 | 0.32 | 0.63 | î |
| 14027 | Perfluorotetradecanoic | | N.D. | 0.32 | 0.84 | 1 |
| 14027 | Perfluorotridecanoic a | | N.D. | 0.63 | 1.3 | 1 |
| 14027 | Perfluoroundecanoic ac | | N.D. | 0.32 | 0.63 | 1 |
| | to a preparation error, reanalysis was performed | | | ole. | | |
| | | | /1 | | 100 | |
| decar | s Sv | V-846 6010C | mg/kg | mg/kg | mg/kg | |
| | s SV Aluminum | V-846 6010C 7429-90-5 | mg/kg 3,460 | mg/kg 6.10 | mg/kg 31.9 | 1 |
| 01643 | | | | 21.72 | | 1 |
| 01643 06935 | Aluminum | 7429-90-5 | 3,460 | 6.10 | 31.9 | |
| 01643 06935 06946 | Aluminum Arsenic | 7429-90-5 7440-38-2 | 3,460 1.85 J | 6.10 0.470 | 31.9 3.19 | 1 |
| 01643 06935 06946 06949 | Aluminum Arsenic Barium | 7429-90-5 7440-38-2 7440-39-3 | 3,460 1.85 J 9.37 | 6.10 0.470 0.0956 | 31.9 3.19 0.797 | 1 1 1 |
| 01643 06935 06946 06949 06951 | Aluminum Arsenic Barium Cadmium | 7429-90-5 7440-38-2 7440-39-3 7440-43-9 | 3,460 1.85 J 9.37 0.0661 J | 6.10 0.470 0.0956 0.0390 | 31.9 3.19 0.797 0.797 | 1 1 1 |
| 01643 06935 06946 06949 06951 06953 | Aluminum Arsenic Barium Cadmium Chromium | 7429-90-5 7440-38-2 7440-39-3 7440-43-9 7440-47-3 | 3,460 1.85 J 9.37 0.0661 J 1.75 J | 6.10 0.470 0.0956 0.0390 0.135 | 31.9 3.19 0.797 0.797 2.39 | 1 1 1 |
| 01643 06935 06946 06949 06951 06953 01654 | Aluminum Arsenic Barium Cadmium Chromium Copper | 7429-90-5 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7440-50-8 | 3,460 1.85 J 9.37 0.0661 J 1.75 J 2.11 7,280 2.11 J | 6.10 0.470 0.0956 0.0390 0.135 0.255 2.65 0.406 | 31.9 3.19 0.797 0.797 2.39 1.59 31.9 2.39 | 1 1 1 1 1 |
| 01643 06935 06946 06949 06951 06953 01654 06955 | Aluminum Arsenic Barium Cadmium Chromium Copper Iron | 7429-90-5 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7440-50-8 7439-89-6 | 3,460 1.85 J 9.37 0.0661 J 1.75 J 2.11 7,280 2.11 J 885 | 6.10 0.470 0.0956 0.0390 0.135 0.255 2.65 0.406 1.33 | 31.9 3.19 0.797 0.797 2.39 1.59 31.9 2.39 15.9 | 1 1 1 1 1 1 |
| 01643 06935 06946 06949 06951 06953 01654 06955 01657 | Aluminum Arsenic Barium Cadmium Chromium Copper Iron Lead Magnesium Selenium | 7429-90-5 7440-38-2 7440-39-3 7440-43-9 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7782-49-2 | 3,460 1.85 J 9.37 0.0661 J 1.75 J 2.11 7,280 2.11 J 885 N.D. | 6.10 0.470 0.0956 0.0390 0.135 0.255 2.65 0.406 1.33 0.717 | 31.9 3.19 0.797 0.797 2.39 1.59 31.9 2.39 15.9 3.19 | 1 1 1 1 1 1 1 1 |
| 01643 06935 06946 06949 06951 06953 01654 06955 01657 06936 | Aluminum Arsenic Barium Cadmium Chromium Copper Iron Lead Magnesium Selenium Silver | 7429-90-5 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7782-49-2 7440-22-4 | 3,460 1.85 J 9.37 0.0661 J 1.75 J 2.11 7,280 2.11 J 885 N.D. | 6.10 0.470 0.0956 0.0390 0.135 0.255 2.65 0.406 1.33 0.717 0.143 | 31.9 3.19 0.797 0.797 2.39 1.59 31.9 2.39 15.9 3.19 0.797 | 1 1 1 1 1 1 1 1 1 |
| 01643 06935 06946 06949 06951 06953 01654 06955 01657 06936 | Aluminum Arsenic Barium Cadmium Chromium Copper Iron Lead Magnesium Selenium | 7429-90-5 7440-38-2 7440-39-3 7440-43-9 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7782-49-2 | 3,460 1.85 J 9.37 0.0661 J 1.75 J 2.11 7,280 2.11 J 885 N.D. | 6.10 0.470 0.0956 0.0390 0.135 0.255 2.65 0.406 1.33 0.717 | 31.9 3.19 0.797 0.797 2.39 1.59 31.9 2.39 15.9 3.19 | 1 1 1 1 1 1 1 1 |
| Metal 01643 06935 06946 06949 06953 01654 06955 01657 06936 06966 | Aluminum Arsenic Barium Cadmium Chromium Copper Iron Lead Magnesium Selenium Silver | 7429-90-5 7440-38-2 7440-39-3 7440-43-9 7440-47-3 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7782-49-2 7440-22-4 | 3,460 1.85 J 9.37 0.0661 J 1.75 J 2.11 7,280 2.11 J 885 N.D. | 6.10 0.470 0.0956 0.0390 0.135 0.255 2.65 0.406 1.33 0.717 0.143 | 31.9 3.19 0.797 0.797 2.39 1.59 31.9 2.39 15.9 3.19 0.797 | 1 1 1 1 1 1 1 1 1 1 |
| 01643 06935 06946 06949 06951 06953 01654 06955 01657 06936 06966 | Aluminum Arsenic Barium Cadmium Chromium Copper Iron Lead Magnesium Selenium Silver | 7429-90-5 7440-38-2 7440-39-3 7440-47-3 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7782-49-2 7440-22-4 7440-66-6 | 3,460 1.85 J 9.37 0.0661 J 1.75 J 2.11 7,280 2.11 J 885 N.D. N.D. 16.9 | 6.10 0.470 0.0956 0.0390 0.135 0.255 2.65 0.406 1.33 0.717 0.143 0.613 | 31.9 3.19 0.797 0.797 2.39 1.59 31.9 2.39 15.9 3.19 0.797 | 1 1 1 1 1 1 1 1 1 1 1 |
| 01643 06935 06946 06949 06951 06953 01654 06955 06936 06972 | Aluminum Arsenic Barium Cadmium Chromium Copper Iron Lead Magnesium Selenium Silver Zinc SW Mercury | 7429-90-5 7440-38-2 7440-39-3 7440-47-3 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7782-49-2 7440-22-4 7440-66-6 | 3,460 1.85 J 9.37 0.0661 J 1.75 J 2.11 7,280 2.11 J 885 N.D. N.D. 16.9 | 6.10 0.470 0.0956 0.0390 0.135 0.255 2.65 0.406 1.33 0.717 0.143 0.613 | 31.9 3.19 0.797 0.797 2.39 1.59 31.9 2.39 15.9 3.19 0.797 3.19 | 1 1 1 1 1 1 1 1 1 1 |
| 06935 06946 06949 06951 06953 01654 06955 01657 06936 06972 | Aluminum Arsenic Barium Cadmium Chromium Copper Iron Lead Magnesium Selenium Silver Zinc Mercury SM | 7429-90-5 7440-38-2 7440-39-3 7440-47-3 7440-50-8 7439-89-6 7439-92-1 7439-95-4 7782-49-2 7440-22-4 7440-66-6 N-846 7471B 7439-97-6 | 3,460 1.85 J 9.37 0.0661 J 1.75 J 2.11 7,280 2.11 J 885 N.D. N.D. 16.9 mg/kg N.D. | 6.10 0.470 0.0956 0.0390 0.135 0.255 2.65 0.406 1.33 0.717 0.143 0.613 mg/kg 0.0105 | 31.9 3.19 0.797 0.797 2.39 1.59 31.9 2.39 15.9 3.19 0.797 3.19 mg/kg 0.105 | 1 1 1 1 1 1 1 1 1 1 1 |

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: Fire Pit Overhang #1 Grab Soil

Fort Drum

LL Sample # SW 8420242

LL Group # 1670726 Account # 38055 Account # 38055

Project Name: Fort Drum

Collected: 06/09/2016 12:50 by DC Converse Laboratories, Inc.

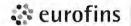
800 Starbuck Ave

Suite B101

Watertown NY 13601

Submitted: 06/10/2016 09:25 Reported: 08/08/2016 10:47

| | | Labora | tory Sa | ample Analys | is Record | | | |
|------------|--------------------------|---------------------------|---------|--------------|-------------------------|-------|-------------------------|--------------------|
| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Ti | .me | Analyst | Dilution Factor |
| 14027 | 14 PFCs in Soil | EPA 537 Rev. 1.1 modified | 1 | 16204006 | 07/26/2016 | 21:27 | Marissa C Drexinger | 1 |
| 14090 | PFC Solid Prep | EPA 537 Rev. 1.1 modified | 2 | 16204006 | 06/28/2016 | 11:35 | Devon M Whooley | 1 |
| 01643 | Aluminum | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:14 | Matthew R Machtinger | 1 |
| 06935 | Arsenic | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:14 | Matthew R Machtinger | 1 |
| 06946 | Barium | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:14 | Matthew R Machtinger | 1 |
| 06949 | Cadmium | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:14 | Matthew R Machtinger | 1 |
| 06951 | Chromium | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:14 | Matthew R Machtinger | 1 |
| 06953 | Copper | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:14 | Matthew R Machtinger | 1 |
| 01654 | Iron | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:14 | Matthew R Machtinger | 1 |
| 06955 | Lead | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:14 | Matthew R Machtinger | 1 |
| 01657 | Magnesium | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:14 | Matthew R Machtinger | 1 |
| 06936 | Selenium | SW-846 6010C | 1 | 161720637003 | 06/23/2016 | 00:37 | Matthew R Machtinger | 1 |
| 06966 | Silver | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:14 | Matthew R Machtinger | 1 |
| 06972 | Zinc | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:14 | Matthew R Machtinger | 1 |
| 00159 | Mercury | SW-846 7471B | 1 | 161650638001 | 06/14/2016 | 12:24 | Damary Valentin | 1 |
| 10637 | ICP/ICPMS-SW, 3050B - U4 | SW-846 3050B | 1 | 161720637003 | 06/21/2016 | 06:10 | Lisa J Cooke | 1 |
| 10638 | Hg - SW, 7471B - U4 | SW-846 7471B | 1.1 | 161650638001 | 06/14/2016 | 09:25 | Lisa J Cooke | 1 |
| 00111 | Moisture | SM 2540 G-1997 | 1 | 16181820002A | 06/29/2016 | 23:22 | Scott W Freisher | 1 |
| | | | | | | | | |



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: Fire Pit Overhang #2 Grab Soil

Fort Drum

LL Sample # SW 8420243

LL Group # 1670726 Account # 38055

Project Name: Fort Drum

Collected: 06/09/2016 12:50 by DC

Converse Laboratories, Inc.

800 Starbuck Ave

Suite B101

Watertown NY 13601

- -- - - -- -- -- -- -- -- --

Submitted: 06/10/2016 09:25 Reported: 08/08/2016 10:47

Dry Dry Method Limit of Dry Dilution CAT Detection Limit* Quantitation CAS Number Analysis Name Result No. ng/g EPA 537 Rev. 1.1 ng/g ng/g Misc. Organics modified 375-73-5 0.53 0.52 1.7 1 14027 Perfluorobutanesulfonate 335-76-2 0.21 0.42 1 14027 Perfluorodecanoic acid 307-55-1 N.D. 0.42 0.83 1 Perfluorododecanoic acid 14027 1 2.2 0.31 0.62 375-85-9 14027 Perfluoroheptanoic acid 1.7 0.52 Perfluorohexanesulfonate 355-46-4 18 14027 0.42 9.9 0.21 14027 Perfluorohexanoic acid 307-24-4 4.2 10 14027 Perfluorononanoic acid 375-95-1 73 2.1 170 100 14027 Perfluoro-octanesulfonate 1763-23-1 2,600 73 0.31 0.62 Perfluorooctanoic acid 335-67-1 2.6 1 14027 Perfluorotetradecanoic acid 376-06-7 N.D. 0.31 0.83 1 14027 72629-94-8 N.D. 0.62 1.2 Perfluorotridecanoic acid 14027 0.31 0.62 1 14027 Perfluoroundecanoic acid 2058-94-8 The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits.

Due to a preparation error, reextraction was required for this sample. The reanalysis was performed outside the holding time.

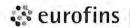
| Metal | 3 | SW-846 | 6010C | mg/kg | | mg/kg | mg/kg | |
|-------|-----------|---------------|------------------|--------|-----|--------|--------|---|
| 01643 | Aluminum | | 7429-90-5 | 3,260 | | 6.47 | 33.8 | 1 |
| 06935 | Arsenic | | 7440-38-2 | 1.28 | J . | 0.499 | 3,38 | 1 |
| 06946 | Barium | | 7440-39-3 | 6.80 | | 0.101 | 0.845 | 1 |
| 06949 | Cadmium | | 7440-43-9 | 0.0625 | J | 0.0414 | 0.845 | 1 |
| 06951 | Chromium | | 7440-47-3 | 1.76 | J | 0.144 | 2.54 | 1 |
| 06953 | Copper | | 7440-50-8 | 1.60 | J | 0.270 | 1.69 | 1 |
| 01654 | Iron | | 7439-89-6 | 5,130 | | 2.81 | 33.8 | 1 |
| 06955 | Lead | | 7439-92-1 | 1.24 | J | 0.431 | 2.54 | 1 |
| 01657 | Magnesium | | 7439-95-4 | 562 | | 1.41 | 16.9 | 1 |
| 06936 | Selenium | | 7782-49-2 | N.D. | | 0.761 | 3,38 | 1 |
| 06966 | Silver | | 7440-22-4 | N.D. | | 0.152 | 0.845 | 1 |
| 06972 | Zinc | | 7440-66-6 | 13.3 | | 0.651 | 3.38 | 1 |
| | | SW-846 | 7471B | mg/kg | | mg/kg | mg/kg | |
| 00159 | Mercury | 23.4 - 2.5 2. | 7439-97-6 | N.D. | | 0.0098 | 0.0981 | 1 |
| Vet C | hemistry | SM 254 | 0 G-1997 | % | | % | % | |
| 00111 | Moisture | | n.a. | 3.8 | | 0.50 | 0.50 | 1 |
| | | | in weight of the | | | | | |

Sample Comments

State of New York Certification No. 10670

as-received basis.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: Fire Pit Overhang #2 Grab Soil

Fort Drum

LL Sample # SW 8420243 LL Group # 1670726

Account # 38055

Project Name: Fort Drum

Collected: 06/09/2016 12:50 by DC

Converse Laboratories, Inc.

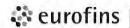
800 Starbuck Ave

Suite B101

Watertown NY 13601

Submitted: 06/10/2016 09:25 Reported: 08/08/2016 10:47

| | | Labora | tory Sa | ample Analys: | is Record | | | |
|------------|--------------------------|---------------------------|---------|---------------|-------------------------|-------|-------------------------|--------------------|
| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Ti | me | Analyst | Dilution Factor |
| 14027 | 14 PFCs in Soil | EPA 537 Rev. 1.1 modified | 1 | 16204006 | 07/26/2016 | | Marissa C Drexinger | 1 |
| 14027 | 14 PFCs in Soil | EPA 537 Rev. 1.1 modified | 1 | 16204006 | 08/03/2016 | 17:39 | Marissa C Drexinger | 10 |
| 14027 | 14 PFCs in Soil | EPA 537 Rev. 1.1 modified | 1 | 16204006 | 08/03/2016 | 18:42 | Marissa C Drexinger | 100 |
| 14090 | PFC Solid Prep | EPA 537 Rev. 1.1 modified | 2 | 16204006 | 07/25/2016 | 10:55 | Devon M Whooley | 1 |
| 01643 | Aluminum | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:17 | Matthew R Machtinger | 1 |
| 06935 | Arsenic | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:17 | Matthew R Machtinger | 1 |
| 06946 | Barium | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:17 | Matthew R Machtinger | 1 |
| 06949 | Cadmium | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:17 | Matthew R Machtinger | 1 |
| 06951 | Chromium | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:17 | Matthew R Machtinger | 1 |
| 06953 | Copper | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:17 | Matthew R Machtinger | 1 |
| 01654 | Iron | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:17 | Matthew R Machtinger | 1 |
| 06955 | Lead | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:17 | Matthew R Machtinger | 1 |
| 01657 | Magnesium | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:17 | Matthew R Machtinger | 1 |
| 06936 | Selenium | SW-846 6010C | 1 | 161720637003 | 06/23/2016 | 00:40 | Matthew R Machtinger | 1 |
| 06966 | Silver | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:17 | Matthew R Machtinger | 1 |
| 06972 | Zinc | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:17 | Matthew R Machtinger | 1 |
| 00159 | Mercury | SW-846 7471B | 1 | 161650638001 | 06/14/2016 | 12:55 | Damary Valentin | 1 |
| 10637 | ICP/ICPMS-SW, 3050B - U4 | SW-846 3050B | 1 | 161720637003 | 06/21/2016 | 06:10 | Lisa J Cooke | 1 |
| 10638 | Hg - SW, 7471B - U4 | SW-846 7471B | 1 | 161650638001 | 06/14/2016 | 09:25 | Lisa J Cooke | 1 |
| 00111 | Moisture | SM 2540 G-1997 | 1 | 16181820002B | 06/29/2016 | 23:22 | Scott W Freisher | 1 |



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: Fire Pit Overhang #3 Grab Soil

Fort Drum

LL Sample # SW 8420244

LL Group # 1670726 Account # 38055

Project Name: Fort Drum

Collected: 06/09/2016 12:52 by DO

Converse Laboratories, Inc.

800 Starbuck Ave

Suite B101

Watertown NY 13601

Collected: 06/09/2016 12:

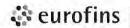
Submitted: 06/10/2016 09:25 Reported: 08/08/2016 10:47

Method Limit of CAT Drv Dilution Quantitation Detection Limit* CAS Number Analysis Name Result Factor No. EPA 537 Rev. 1.1 ng/g ng/g ng/g Misc. Organics modified 375-73-5 N.D. 0.52 14027 Perfluorobutanesulfonate 14027 Perfluorodecanoic acid 335-76-2 N.D. 0.21 Perfluorododecanoic acid 307-55-1 N.D. 0.42 0.84 14027 0.31 0.63 Perfluoroheptanoic acid 375-85-9 0.38 1 14027 1.7 Perfluorohexanesulfonate 355-46-4 0.52 1 14027 8.5 Perfluorohexanoic acid 14027 307-24-4 4.7 0.21 0.42 1 14027 Perfluorononanoic acid 375-95-1 4.2 0 21 0.42 1 14027 Perfluoro-octanesulfonate 1763-23-1 150 0.73 1.7 7 14027 Perfluorooctanoic acid 335-67-1 1.1 0.31 0.63 1 Perfluorotetradecanoic acid 376-06-7 N.D. 0.31 0.84 1 14027 Perfluorotridecanoic acid 72629-94-8 1.3 14027 N.D. 0.63 0.63 14027 Perfluoroundecanoic acid 2058-94-8 0.31 The stated QC limits are advisory only until sufficient data points can be obtained to calculate statistical limits. Due to a preparation error, reextraction was required for this sample. The reanalysis was performed outside the holding time. SW-846 6010C mg/kg mg/kg mg/kg Metals 01643 Aluminum 7429-90-5 3,160 7.10 37.1 1 7440-38-2 1.07 0.547 3.71 06935 Arsenic 7440-39-3 0.111 0.927 06946 Barium 9.36 06949 Cadmium 7440-43-9 0.0667 J 0.0454 0.927 06951 Chromium 7440-47-3 1.50 0.158 2.78 1 7440-50-8 1.55 0.297 1.85 1 Copper 06953 7439-89-6 5,750 3.09 37.1 1 01654 Iron 7439-92-1 0.473 06955 Lead 1.63 2.78 1 01657 Magnesium 7439-95-4 639 1.55 18.5 1 06936 Selenium 7782-49-2 N.D. 0.834 3.71 1 06966 Silver 7440-22-4 N.D. 0.167 0.927 1 7440-66-6 0.714 3.71 1 06972 15.8 mg/kg mg/kg mq/kq SW-846 7471B 7439-97-6 0.0098 0.0985 00159 Mercury N.D. 1 Wet Chemistry SM 2540 G-1997 00111 Moisture 4.5 0.50 0.50 1 Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: Fire Pit Overhang #3 Grab Soil

Fort Drum

LL Sample # SW 8420244

LL Group # 1670726 Account # 38055

Project Name: Fort Drum

Collected: 06/09/2016 12:52 by DC

Converse Laboratories, Inc.

800 Starbuck Ave

Suite B101

Watertown NY 13601

Submitted: 06/10/2016 09:25 Reported: 08/08/2016 10:47

| | | | cor, b | ample Analys | | | | |
|-------|--------------------------|---------------------------|--------|--------------|-------------|-------|-------------------------|----------|
| CAT | Analysis Name | Method | Trial# | Batch# | Analysis | | Analyst | Dilution |
| No. | | | | | Date and Ti | me | | Factor |
| 14027 | 14 PFCs in Soil | EPA 537 Rev. 1.1 modified | 1 | 16204006 | 07/26/2016 | 21:58 | Marissa C Drexinger | 1 |
| 14090 | PFC Solid Prep | EPA 537 Rev. 1.1 modified | 2 | 16204006 | 07/25/2016 | 10:55 | Devon M Whooley | 1 |
| 01643 | Aluminum | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:27 | Matthew R Machtinger | 1 |
| 06935 | Arsenic | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:27 | Matthew R Machtinger | 1 |
| 06946 | Barium | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:27 | Matthew R Machtinger | 1 |
| 06949 | Cadmium | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:27 | Matthew R Machtinger | 1 |
| 06951 | Chromium | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:27 | Matthew R Machtinger | 1 |
| 06953 | Copper | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:27 | Matthew R Machtinger | 1 |
| 01654 | Iron | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:27 | Matthew R Machtinger | 1 |
| 06955 | Lead | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:27 | Matthew R Machtinger | 1 |
| 01657 | Magnesium | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:27 | Matthew R Machtinger | 1 |
| 06936 | Selenium | SW-846 6010C | 1 | 161720637003 | 06/23/2016 | 00:50 | Matthew R Machtinger | 1 |
| 06966 | Silver | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:27 | Matthew R Machtinger | 1 |
| 06972 | Zinc | SW-846 6010C | 1 | 161720637003 | 06/22/2016 | 03:27 | Matthew R Machtinger | 1 |
| 00159 | Mercury | SW-846 7471B | 1 | 161650638001 | 06/14/2016 | 12:58 | Damary Valentin | 1 |
| 10637 | ICP/ICPMS-SW, 3050B - U4 | SW-846 3050B | ī | 161720637003 | 06/21/2016 | 06:10 | Lisa J Cooke | 1 |
| 10638 | Hq - SW, 7471B - U4 | SW-846 7471B | 1 | 161650638001 | 06/14/2016 | 09:25 | Lisa J Cooke | 1 |
| 00111 | Moisture | SM 2540 G-1997 | 1 | 16181820002B | 06/29/2016 | 23:22 | Scott W Freisher | 1 |
| | | | | | | | | |

Quality Control Summary

Client Name: Converse Laboratories, Inc.

Reported: 08/08/2016 10:47

Group Number: 1670726

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

| Analysis Name | Result | MDL** | LOQ |
|-----------------------------|------------|--------------|-------------|
| | ng/g | ng/g | ng/g |
| Batch number: 16204006 | Sample num | ber(s): 8420 | 240-8420244 |
| Perfluorobutanesulfonate | N.D. | 0.50 | 1.6 |
| Perfluorodecanoic acid | N.D. | 0.20 | 0.40 |
| Perfluorododecanoic acid | N.D. | 0.40 | 0.80 |
| Perfluoroheptanoic acid | N.D. | 0.30 | 0.60 |
| Perfluorohexanesulfonate | N.D. | 0.50 | 1.6 |
| Perfluorohexanoic acid | N.D. | 0.20 | 0.40 |
| Perfluorononanoic acid | N.D. | 0.20 | 0.40 |
| Perfluoro-octanesulfonate | N.D. | 0.70 | 1.6 |
| Perfluorooctanoic acid | N.D. | 0.30 | 0.60 |
| Perfluorotetradecanoic acid | N.D. | 0.30 | 0.80 |
| Perfluorotridecanoic acid | N.D. | 0.60 | 1.2 |
| Perfluoroundecanoic acid | N.D. | 0.30 | 0.60 |
| | mg/kg | mg/kg | mg/kg |
| Batch number: 161650638001 | Sample num | ber(s): 8420 | 242-8420244 |
| Mercury | N.D. | 0.0100 | 0.100 |
| Batch number: 161720637003 | Sample num | ber(s): 8420 | 242-8420244 |
| Aluminum | N.D. | 7.66 | 40.0 |
| Arsenic | N.D. | 0.590 | 4.00 |
| Barium | N.D. | 0.120 | 1.00 |
| Cadmium | N.D. | 0.0490 | 1.00 |
| Chromium | N.D. | 0.170 | 3.00 |
| Copper | N.D. | 0.320 | 2.00 |
| Iron | N.D. | 3.33 | 40.0 |
| Lead | N.D. | 0.510 | 3.00 |
| Magnesium | N.D. | 1.67 | 20.0 |
| Selenium | N.D. | 0.900 | 4.00 |
| Silver | N.D. | 0.180 | 1.00 |
| Zinc | N.D. | 0.770 | 4.00 |
| | | | |

LCS/LCSD

| Analysis Name | LCS Spike Added ng/g | LCS Conc ng/g | LCSD Spike Added ng/g | LCSD Conc ng/g | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|--------------------------|----------------------------|---------------------|-----------------------------|----------------------|-------------|--------------|--------------------|-----|------------|
| Batch number: 16204006 | Sample numbe | r(s): 8420 | 240-8420244 | | | | | | |
| Perfluorobutanesulfonate | 17.68 | 18.61 | 17.68 | 17.42 | 105 | 99 | 70-130 | 7 | 30 |
| Perfluorodecanoic acid | 20 | 20.42 | 20 | 23.75 | 102 | 119 | 70-130 | 15 | 30 |
| Perfluorododecanoic acid | 20 | 22.76 | 20 | 22.81 | 114 | 114 | 70-130 | 0 | 30 |

^{*-} Outside of specification

P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

^{**-}This limit was used in the evaluation of the final result for the blank

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Converse Laboratories, Inc.

Reported: 08/08/2016 10:47

Group Number: 1670726

LCS/LCSD (continued)

| Analysis Name | LCS Spike Added | LCS Conc | LCSD Spike Added | LCSD | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|-----------------------------|--------------------|--------------|---------------------|-------|-------------|--------------|--------------------|-----|------------|
| | ng/g | ng/g | ng/g | ng/g | | | | | |
| Perfluoroheptanoic acid | 20 | 20 | 20 | 22.48 | 100 | 112 | 70-130 | 12 | 30 |
| Perfluorohexanesulfonate | 18.92 | 18.68 | 18.92 | 18.15 | 99 | 96 | 70-130 | 3 | 30 |
| Perfluorohexanoic acid | 20 | 24.43 | 20 | 20.81 | 122 | 104 | 70-130 | 16 | 30 |
| Perfluorononanoic acid | 20 | 20.06 | 20 | 19.73 | 100 | 99 | 70-130 | 2 | 30 |
| Perfluoro-octanesulfonate | 19.12 | 17.82 | 19.12 | 20.9 | 93 | 109 | 70-130 | 16 | 30 |
| Perfluorooctanoic acid | 20 | 20.04 | 20 | 17.75 | 100 | 89 | 70-130 | 12 | 30 |
| Perfluorotetradecanoic acid | 20 | 21.26 | 20 | 26.64 | 106 | 133* | 70-130 | 22 | 30 |
| Perfluorotridecanoic acid | 20 | 24.26 | 20 | 19.23 | 121 | 96 | 70-130 | 23 | 30 |
| Perfluoroundecanoic acid | 20 | 23.24 | 20 | 27.98 | 116 | 140* | 70-130 | 19 | 30 |
| | mg/kg | mg/kg | mg/kg | mg/kg | | | | | |
| Batch number: 161650638001 | Sample numbe | er(s): 84202 | 242-8420244 | | | | | | |
| Mercury | 0.100 | 0.100 | | | 100 | | 80-120 | | |
| Batch number: 161720637003 | Sample numbe | er(s): 84202 | 242-8420244 | | | | | | |
| Aluminum | 200 | 217.41 | | | 109 | | 80-120 | | |
| Arsenic | 15 | 16.28 | | | 109 | | 80-120 | | |
| Barium | 200 | 215.57 | | | 108 | | 80-120 | | |
| Cadmium | 5.00 | 5.49 | | | 110 | | 80-120 | | |
| Chromium | 20 | 21.83 | | | 109 | | 80-120 | | |
| Copper | 25 | 27.9 | | | 112 | | 80-120 | | |
| Iron | 100 | 107.75 | | | 108 | | 80-120 | | |
| Lead | 15 | 16.11 | | | 107 | | 80-120 | | |
| Magnesium | 200 | 213.39 | | | 107 | | 80-120 | | |
| Selenium | 15 | 16.11 | | | 107 | | 80-120 | | |
| Silver | 5.00 | 4.40 | | | 88 | | 80-120 | | |
| Zinc | 50 | 53.58 | | | 107 | | 80-120 | | |
| | % | % | % | * | | | | | |
| Batch number: 16181820002A | Sample number | | 240-8420242 | | | | | | |
| Moisture | 89.5 | 89.45 | | | 100 | | 99-101 | | |
| Batch number: 16181820002B | Sample numbe | er(s): 8420 | 243-8420244 | | | | | | |
| Moisture | 89.5 | 89.45 | | | 100 | | 99-101 | | |
| | | | | | | | | | |

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

| Unspiked Conc ng/g | MS Spike Added ng/g | MS Conc ng/g | MSD Spike Added ng/g | MSD Conc ng/g | MS %Rec | MSD %Rec | MS/MSD Limits | RPD | RPD Max |
|--------------------------|---|---|--|---|---|---|---|--|--|
| Sample numb | er(s): 8420 | 240-8420 | 244 UNSPK: | 8420241 | 11.3 | | | | |
| N.D. | 17.68 | 18.01 | | | 102 | | 70-130 | | |
| N.D. | 20 | 35.41 | | | 177* | | 70-130 | | |
| N.D. | 20 | 24.55 | | | 123 | | 70-130 | | |
| N.D. | 20 | 22.95 | | | 115 | | 70-130 | | |
| | Conc ng/g Sample numb N.D. N.D. N.D. | Conc Added ng/g ng/g Sample number(s): 8420 N.D. 17.68 N.D. 20 N.D. 20 | Conc Added Conc ng/g ng/g ng/g Sample number(s): 8420240-8420 N.D. 17.68 18.01 N.D. 20 35.41 N.D. 20 24.55 | Conc Added Conc Added ng/g ng/g ng/g ng/g ng/g Sample number(s): 8420240-8420244 UNSPK: N.D. 17.68 18.01 N.D. 20 35.41 N.D. 20 24.55 | Conc Added Conc Added Conc ng/g ng/g ng/g ng/g ng/g ng/g ng/g Sample number(s): 8420240-8420244 UNSPK: 8420241 N.D. 17.68 18.01 N.D. 20 35.41 N.D. 20 24.55 | Conc Added ng/g Conc ng/g Added ng/g Conc ng/g Added ng/g Conc ng/g Rec ng/g Sample number(s): 8420240-8420244 UNSPK: 8420241 . N.D. 17.68 18.01 102 N.D. 20 35.41 177* N.D. 20 24.55 123 | Conc Added ng/g Conc ng/g Added ng/g Conc ng/g Rec ng/g | ng/g ng/g ng/g ng/g ng/g Sample number(s): 8420240-8420244 UNSPK: 8420241 . N.D. 17.68 18.01 102 70-130 N.D. 20 35.41 177* 70-130 N.D. 20 24.55 123 70-130 | Conc Added Nonc Added Page Conc Rec Nec Limits ng/g ng/g ng/g ng/g ng/g Sample number(s): 8420240-8420244 UNSPK: 8420241 N.D. 17.68 18.01 102 70-130 N.D. 20 35.41 177* 70-130 N.D. 20 24.55 123 70-130 |

^{*-} Outside of specification

^{**-}This limit was used in the evaluation of the final result for the blank

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.

P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Converse Laboratories, Inc.

Reported: 08/08/2016 10:47

Group Number: 1670726

MS/MSD (continued)

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

| Analysis Name | Unspiked Conc ng/g | MS Spike Added ng/g | MS Conc ng/g | MSD Spike Added ng/g | MSD Conc ng/g | MS %Rec | MSD %Rec | MS/MSD Limits | RPD | RPD Max |
|-----------------------------|--------------------------|---------------------------|--------------------|----------------------------|---------------------|------------|-------------|------------------|-----|------------|
| Perfluorohexanesulfonate | 7.88 | 18.92 | 28.4 | | | 108 | | 70-130 | | |
| Perfluorohexanoic acid | N.D. | 20 | 25.64 | | | 128 | | 70-130 | | |
| Perfluorononanoic acid | 7.01 | 20 | 24.97 | | | 90 | | 70-130 | | |
| Perfluoro-octanesulfonate | 194.29 | 19.12 | 237.2 | | | 224 (2) | | 70-130 | | |
| Perfluorooctanoic acid | 11.16 | 20 | 28.66 | | | 88 | | 70-130 | | |
| Perfluorotetradecanoic acid | N.D. | 20 | 20.7 | | | 103 | | 70-130 | | |
| Perfluorotridecanoic acid | N.D. | 20 | 20.43 | | | 102 | | 70-130 | | |
| Perfluoroundecanoic acid | N.D. | 20 | 23.9 | | | 119 | | 70-130 | | |
| | mg/kg | mg/kg | mg/kg | mg/kg | mg/kg | | | | | |
| Batch number: 161650638001 | Sample numb | er(s): 842 | 0242-8420 | 244 UNSPK: | 8420242 | | | | | |
| Mercury | N.D. | 0.157 | 0.151 | 0.163 | 0.160 | 96 | 98 | 80-120 | 6 | 20 |
| Batch number: 161720637003 | Sample numb | er(s): 842 | 0242-8420 | 244 UNSPK: | P421663 | | | | | |
| Aluminum | 1334.5 | 181.82 | 4035.73 | 188.68 | 5481.51 | 1486 | 2198 (2) | 75-125 | 30* | 20 |
| Arsenic | 1.03 | 13.64 | 15.99 | 14.15 | 17.25 | 110 | 115 | 75-125 | 8 | 20 |
| Barium | 8.68 | 181.82 | 208.64 | 188.68 | 222.68 | 110 | 113 | 75-125 | 7 | 20 |
| Cadmium | 0.312 | 4.55 | 5.35 | 4.72 | 5.73 | 111 | 115 | 75-125 | 7 | 20 |
| Chromium | 2.61 | 18.18 | 24.87 | 18.87 | 27.65 | 122 | 133* | 75-125 | 11 | 20 |
| Copper | 1.08 | 22.73 | 26.89 | 23.58 | 28.71 | 114 | 117 | 75-125 | 7 | 20 |
| Iron | 1934.4 | 90.91 | 3361.27 | 94.34 | 4450.48 | 1570 | 2667 | 75-125 | 28* | 20 |
| | | | | | | (2) | (2) | | | |
| Lead | 2.03 | 13.64 | 17 | 14.15 | 18.53 | 110 | 117 | 75-125 | 9 | 20 |
| Magnesium | 139.73 | 181.82 | 480.61 | 188.68 | 602.54 | 187* | 245* | 75-125 | 23* | 20 |
| Selenium | N.D. | 13.64 | 14.32 | 14.15 | 14.31 | 105 | 101 | 75-125 | 0 | 20 |
| Silver | N.D. | 4.55 | 3.94 | 4.72 | 4.12 | 87 | 87 | 75-125 | 4 | 20 |
| Zinc | 9.07 | 45.45 | 63.51 | 47.17 | 70.57 | 120 | 130* | 75-125 | 11 | 20 |

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | BKG Conc mg/kg | DUP Conc mg/kg | DUP RPD | DUP RPD Max |
|---------------------------------------|------------------------|------------------------------|------------------|-------------|
| Batch number: 161650638001 Mercury | Sample number(s): N.D. | 8420242-8420244 BKG: N.D. | 8420242 0 (1) | 20 |
| Batch number: 161720637003 | Sample number(s): | 8420242-8420244 BKG: | P421663 | |
| Aluminum | 1334.5 | 1741.76 | 26* | 20 |
| Arsenic | 1.03 | 1.58 | 42* (1) | 20 |
| Barium | 8.68 | 10.22 | 16 | 20 |
| Cadmium | 0.312 | 0.341 | 9 (1) | 20 |
| Chromium | 2.61 | 3.31 | 23* (1) | 20 |
| Copper | 1.08 | 1.30 | 19 (1) | 20 |

^{*-} Outside of specification

P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

^{**-}This limit was used in the evaluation of the final result for the blank

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Quality Control Summary

Client Name: Converse Laboratories, Inc.

Reported: 08/08/2016 10:47

Group Number: 1670726

Laboratory Duplicate (continued)

Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | | 100 | G Conc mg/kg | DUP Conc mg/kg | | DUP | RPD | DUP | RPD | Мах | |
|---------------|---------------|--------------|-----------------|-------------------|-----------------|------|-----|------|-----|-----|--|
| | Iron | | | 1934.4 | 2263.19 | | 1 | 6 | | 20 | |
| | Lead | | | 2.03 | 2.09 | | 3 | (1) | | 20 | |
| | Magnesium | | | 139.73 | 186.98 | | 2 | 9* | | 20 | |
| | Selenium | | | N.D. | N.D. | | 0 | (1) | | 20 | |
| | Silver | | | N.D. | N.D. | | 0 | (1) | | 20 | |
| | Zinc | | | 9.07 | 10.94 | | 19 | (1) | | 20 | |
| | | | | % | % | | | | | | |
| | Batch number: | 16181820002A | Sample | number(s): | 8420240-8420242 | BKG: | 842 | 0241 | | | |
| | Moisture | | | 5.69 | 5.65 | | | 1 | | 5 | |
| | Batch number: | 16181820002B | Sample | number(s): | 8420243-8420244 | BKG: | 842 | 0243 | | | |
| | Moisture | | | 3.78 | 3.67 | | - | 3 | | 5 | |
| | | | | | | | | | | | |

P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

^{*-} Outside of specification

^{**-}This limit was used in the evaluation of the final result for the blank

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

| Seurofins Lancaster Lab | Lancaster Laboratories Environmental | | | Acct. # | 38 | 38050 | Group # | 16 | 1670726 | 9 | Sample # | | on-oncoens | الع | |
|---|---|------------------------------|--------------|------------|----------|-------------------------------------|----------|-----------|-------------|---------|----------|--------|--------------------------|---|------------------------------------|
| Client: Converse Laboratories Inc. | ories Inc. | | | | | Matrix | × | | | | Analy | es R | Analyses Requested | For Lab Use Only | se Only |
| Project Name/#: Fort Drum | | Site ID #: | | | | | | | | | Prese | rvatic | Preservation Codes | SF#; | |
| Project Manager: | | P.O.#: | EUL1 | EUL16-0865 | | | מרב | | | | | | | SCR #: | |
| Sampler: D.C. | | PWSID #: | | | | one | Pu2 | SJ | | 11-7 | | F | | Preserv | Preservation Codes |
| Phone #: | | Quote #: | | | 2,,- | | П | iəuji | | | | | | H H | T = Thiosulfate |
| State where samples were collected: | | NY For Compliance: Yes | Yes | No | | | 07/ | etno | 34.5 | - | | | | N = HNO ₃ | B = NaOH |
| | | Colle | Collection | c | etisoqu | Pota | NPC | J 10 # II | seterou | D,Pb,Cc | | | | S = H ₂ SO ₄ O = Other | P = H ₃ PO ₄ |
| Sample Identification | | Date | Time | Gral | | Soil | ОФ | stoT | | | | | | | Remarks |
| Fire Pit Sludge | | 6/9/2016 | 1240P | × | Š | Sed. | | ı | × | | | | | | |
| Pit #1 | | 6/9/2016 | 1310P | × | Soil | lic | | ı | × | | Į, | Y | | | |
| Fire Pit Overhang #1 | | 6/9/2016 | 1250P | × | Soil | lic | | ŀ | × | × | | | | | |
| Fire Pit Overhang #2 | | 6/9/2016 | 1250P | × | Soil | ie. | | - 1 | × | × | | | | | |
| Fire Pit Overhang #3 | | 6/9/2016 | 1252P | × | Soil | lic | | ı | × | × | E | | | F | |
| | | | | | | | | | 1 | + | | 1 | | | |
| | | | | | H | | | | | | | | | | |
| | | | | | H | | | | | | | | | | |
| | 1 12 4 21 1 | | | | E E | Relinquished by: | Py: | | | Date | Time | | Received by: | Date | Time |
| urnaround ime Requested (I.A.) (please check): Standard (Rush TAT is subject to laboratory approval and surcharges.) | d (IAI) (please ch | eck): Stan oval and surch | surcharges.) | Kusn | _ | MR | 12 | × | <i>y</i> _ | 31/6/2 | 17 | | | | |
| Date results are needed: | As soon as possbile | ossbile | | | Ä. | Relinquished by | d by: | | | Date | Time | - | Received by: | Date | Time |
| Rush results requested by (please check): | | E-Mail | Phone | le [| | | | | | | 1 | | | \ | |
| E-mail Address: customerservice 315-788-8388 | customerservice2@converselabs.com 315-788-8388 | rselabs.com | | | <u>~</u> | Relinquished by: | d by: | | | Page | Lime | | Received by: | Date | Time |
| Data Package Options (please check if required) Type I (Validation/non-CLP) ☐ MA MCP | se check if required) | ۵ م ق | | | <u> </u> | Relinquished by: | d by: | / | | Date | Time | - | Received by: | Date | Time |
| Type III (Reduced non-CLP) Type VI (Raw Data Only) | CT RCP TX TRRP-13 | P - RP-13 | | | ığ. | Refinquished by: | d by: | | | Date | Time | | Received by: | Date 6-10-16 | Time |
| | No C | NYSDEC Category | A Or | 8 □ | | Relinquished by Commercial Carrier. | d by Com | ommer | cial Carrie | rrier: | | - | Temperature upon receipt | ceipt 3.4 | ့ |
| ß | Eurofins Lan | ster Laboratorie | es Environm | ental, L | C • 24 | 25 New Ho | lland P | ike, Lar | caster, | PA 176 | 717 - 10 | 656-23 | 300 | | 7045 0216 |

Page 14 of 16



Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID:

149812

Group Number(s): 10つ0つる6

Client: Converse Lab

Delivery and Receipt Information

Delivery Method:

Fed Ex

Arrival Timestamp:

06/10/2016 9:25

Number of Packages:

1

Number of Projects:

State/Province of Origin:

NY

Arrival Condition Summary

Shipping Container Sealed:

Yes

Sample IDs on COC match Containers:

Yes

Custody Seal Present:

No

Sample Date/Times match COC:

Yes

Samples Chilled:

Yes

VOA Vial Headspace ≥ 6mm:

N/A

Paperwork Enclosed:

Yes

Total Trip Blank Qty:

0

Samples Intact:

Yes

Air Quality Samples Present:

No

Missing Samples:

No No

Extra Samples: Discrepancy in Container Qty on COC:

No

Unpacked by Joseph Huber (7831) at 10:11 on 06/10/2016

Samples Chilled Details

Thermometer Types:

DT = Digital (Temp. Bottle)

IR = Infrared (Surface Temp)

All Temperatures in °C.

Cooler # Thermometer ID

Corrected Temp

Therm. Type

Ice Type

Ice Present?

Ice Container

Elevated Temp?

32170023

3.4

IR

Ice Pack

N/A

N



Lancaster Laboratories Environmental

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

| RL | Reporting Limit | BMQL | Below Minimum Quantitation Level |
|----------|-----------------------|----------|----------------------------------|
| N.D. | none detected | MPN | Most Probable Number |
| TNTC | Too Numerous To Count | CP Units | cobalt-chloroplatinate units |
| IU | International Units | NTU | nephelometric turbidity units |
| umhos/cm | micromhos/cm | ng | nanogram(s) |
| C | degrees Celsius | F | degrees Fahrenheit |
| meq | milliequivalents | lb. | pound(s) |
| g | gram(s) | kg | kilogram(s) |
| μg | microgram(s) | mg | milligram(s) |
| mL | milliliter(s) | L | liter(s) |
| m3 | cubic meter(s) | μL | microliter(s) |
| | | pg/L | picogram/liter |

less than <

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Results printed under this heading have been adjusted for moisture content. This increases the analyte weight Dry weight basis

concentration to approximate the value present in a similar sample without moisture. All other results are reported on an

as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank

C - Result confirmed by reanalysis

E - Concentration exceeds the calibration range

J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)

P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.

U - Analyte was not detected at the value indicated

V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference...

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

CONVERSE LABORATORIES, INC.

800 Starbuck Ave., Suite B101

(315) 788-8388 www.converselabs.com Watertown, NY 13601

Chain of Custody

of

| * | | 9 | Client Project ID / PO#: | ct ID / | : #O4 | | | 2 | Matrix Codes | | 1 | Sample Information: | <u>"</u> |
|--|---|--|---|---------|----------|--------------|----------|---------------------|--|--------------|------|--|----------------------------|
| | | | Govt credit card | Card | | | Ē | M= Orinking | DW= Orinking Water GW= Ground Water | nd Water | | Finished Raw | |
| Client Address: | | | | | | | <u> </u> | WW= WE SW= Su | WW= Waste Water SL= Sludge SW= Surface Water SO= Soil | ndge Soil | e e | Chlorinated UV OTHER: | |
| Phone #: 315-523-2143 | 23-2143 | Fax#: 315-772-8050 | | | | | | Pres | Preservative Codes | S | | NOTES TO LABORATORY | TORY |
| E-Mail address: 0 | E-Mail address: diane.h.covell.civ@mail.mil | @mail.mil | | əţi | θΛC | | H | 3 | 2= HCl 3= H_2SO_4 | 4 | | | |
| Contact/Repo | Contact/Report to: Diane Covell | ovell | | sodu | s spo | Į. | 4 - | 4= HNO ₃ | 5= NaOH 6= Asorbic Acid | oic Acid | Norm | Normal TAT | |
| Sampler: | Have C | NUELL | -8 | : = CoL | e coqe | eubisə | _ | 1400 | 10= | | Rush | Rush TAT Date Needed: | a.m. / p.m. |
| | | The state of the s | A CANADA MANAGA | .sp C | :es- | | long. | ist Pres | List Preservative Code Below | Below | | ANALYSIS / TEST | |
| Date Collected | Time | Sample Identification | ation | i9 = 9 | Matrix | Chlori | - | 00 | | | | REQUESTED | SAMPLE ID # (lab use only) |
| 1/6/9/16 | 1240 | FirePitSludge | | | SL | 1 | | > | | | Fred | Perfluorates | |
| | 1310 | P+ #2 | | 0 | So | | | 7 | | | Pert | Perfluorates | |
| Anna de la companya d | 1350 | Fre Pit overhang # 1 | # 1 | 9 | S | | | 1 | | | PR | +tals >> | Zn, Cu, Pb |
| | 1250 | Fire Pit Overhang #2 | 24 puz | 9 | SO | | | 1 | | | | COFF | , Mg, A.C. |
| | 1352 | Fire Pit overhand | ng #3 | 9 | SO | | | 1 | | | 8 | As, A | 2, CR, Hg |
| | | | 7 | | | | | | | | | Sejt | à |
| The second secon | | | | | | | + | | | | | | |
| Til on | Relinquished by: | Date | Time | | | Received by: | yd by: | | Date | Time | Temp | AUTHORIZED RECIPIENTS & CONTACT INFO: | ITS & CONTACT |
| A GAMO | New | 6/9/16 | 127 | X | 3 | Ri | 12/2 | | 19/16 [UCH | HON | | | |
| | | | | | | 7 | 0 | | | | | SAMPLE(S) AS RECEIVED CONFORM TO NELAC STANDARDS | D CONFORM TO |
| | | | | | | | | | | | | YES NO IF NO, SEE ATTACHED SHEET | NO HED SHEET |

| Doc. # 357 | 12/19/2013 | Rev. # 12 |
|------------|------------|-----------|
| | | |

Page 1 of 1

Check# Amt. Due:
Amt. Paid:
Cash:
Credit:

Transcriptual Rev.:________Final Review:________ Initial Review:

Environmental Analysis Request/Chain of Custody

| Environmental | | | | ŀ | | | Ì | | | | | Γ | |
|--|-------------------------------|------------|-----------|-------------------|-------------------------------------|-----------|-------|-------------------|---------|---------|-------------------------|---|------------------------------------|
| Client: Converse Laboratories Inc. | | | | | Matrix | | | | ٨ | nalyses | Analyses Requested | For Lab | For Lab Use Only |
| Project Name/#: Fort Drum | Site ID #: | | | | | | | | | reserva | Preservation Codes | SF #: | |
| Project Manager: | P.O.#: | EUL1 | JL16-0865 | 1 | | | | | | | | SCR#: | |
| Sampler: D.C. | PWSID #: | | | ii [| Groi | | SJ | IA | , | | | Prese | Preservation Codes |
| Phone #: | Quote #: | | | > ţu | | | əuje | ,pM, | 0 | | | H= HQI | T = Thiosulfate |
| State where samples were collected: NY | Y For Compliance: Yes | Yes | No | - I | əlqi | | ajuo | 9 1 ,b | 4 | | | N = HNO3 | B = NaOH |
| | Colle | Collection | | esiteoq es Sed | sto9 | ;je |) | orates D,Cd | a,Cr,Hg | | | S = H ₂ SO ₄ O = Other | P = H ₃ PO ₄ |
| Sample Identification | Date | Time | Grab | | Wate | Ofpe | | | - 1 | | T. | | Remarks |
| Fire Pit Sludge | 6/9/2016 | 1240P | × | Sed. | ġ. | Ì | ı | × | | | | | |
| Pit #1 | 6/9/2016 | 1310P | × | Soil | ii. | | ı | × | | | | | |
| Fire Pit Overhang #1 | 6/9/2016 | 1250P | × | Soil | | | i | × | × | | | | |
| Fire Pit Overhang #2 | 6/9/2016 | 1250P | × | Soil | 1 | Ä | l | × | × | | | | |
| Fire Pit Overhang #3 | 6/9/2016 | 1252P | × | Soil | | | ı | × | × | | | | |
| | | | | + | 4 | | | | | + | | | |
| | | | | H | | | | | | | | | |
| Turnaround Time Requested (TAT) (please check): | ase check): Standard | dard | Rush | | Relinquished by: | by: | 1 | 0 | Q Pate | Time | Received by: | Date | Time |
| (Rush TAT is subject to laboratory approval and surcharges.) | y approval and surch | arges.) | | * | 27 | 0 | Ø | | 9 | 2 | 5 | \$ | i. |
| Date results are needed: As soon | As soon as possbile | | 1 | <u>~</u> | Relinquished 93 | <u>\$</u> | | | Date | E E | Received by: | Date | <u> </u> |
| Rush results requested by (please check): E-Mail ✓ E-mail Address: customerservice2@converselabs.com | E-Mail [<] onverselabs.com | Phone | ле | 8 | Relinquished by: | by: | | F | Date | Time | Received by: | Date | Time |
| Phone: 315-788-8388 | | | | | | | | + | | | | 1 | F |
| ackage Options (please check if Validation/non-CLP) | required) | | | ጸ | Relinquished by: | by: | | | Date | Time | Received by: | Date | <u>e</u> |
| | CT RCP | | | <u> </u> | Relinquished by: | l by: | | | Date | Time | Received by: | Date | Time |
| | NYSDEC Category | □ A or | | B S | Relinquished by Commercial Carrier. | by Col | mmerc | ial Can | ier: | | Tamaratura unan racaint | teiot | ပ္ |
| EDD Required? Yes No | If yee format | | | SOL | 0 | EODE V | | Other | - | | culporarae about | Jan | , |

Old Sanitary Landfill
Airfield Sanitary Landfill
Water Well 12



LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at $(800)\ 332-4345$ or $(574)\ 233-4777$.

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STATE CERTIFICATION LIST

| State | Certification | State | Certification |
|-------------------------|----------------|----------------------|-----------------|
| Alabama | 40700 | Montana | CERT0026 |
| Alaska | IN00035 | Nebraska | E87775 |
| Arizona | AZ0432 | Nevada | IN00035 |
| Arkansas | IN00035 | New Hampshire* | 2124 |
| California | 2920 | New Mexico | IN00035 |
| Colorado | IN035 | New Jersey* | IN598 |
| Colorado Radiochemistry | IN035 | New York* | 11398 |
| Connecticut | PH-0132 | North Carolina | 18700 |
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| Maryland | 209 | Virginia* | 460275 |
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| Michigan | 9926 | West Virginia | 9927 C |
| Minnesota* | 018-999-338 | Wisconsin | 999766900 |
| Mississippi | IN035 | Wyoming | IN035 |
| Missouri | 880 | | |

^{*}NELAP/TNI Recognized Accreditation Bodies

Revision date: 04/14/2016



110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207 1 800 332 4345

Laboratory Report

368228 Client: United States Army Corp of Engineers Report:

Priority: Standard Written Attn: Scott Forbes

Final Status: 10 South Howard St

PWS ID: Not Supplied 9250-V

Baltimore, MD 21201 Lab ELAP #: 11398

| | Samp | le Information | | | |
|------------|--------------------|----------------|--------------------------|------------------|-------------------------|
| EEA ID# | Client ID | Method | Collected Date / Time | Collected By: | Received Date / Time |
| 3500155 | WW012-July2016 | 537 | 07/21/16 08:00 | Client | 07/22/16 07:50 |
| 3500156 | OSL-MW08-July2016 | 537 | 07/21/16 09:20 | Client | 07/22/16 07:50 |
| 3500157 | FTB | 537 | 07/21/16 09:20 | Client | 07/22/16 07:50 |
| 3500158 | Duplicate | 537 | 07/21/16 08:00 | Client | 07/22/16 07:50 |
| 3500159 | OSL-MW10-July2016 | 537 | 07/21/16 10:50 | Client | 07/22/16 07:50 |
| 3500162 | OSL-MW9A-July2016 | 537 | 07/21/16 12:40 | Client | 07/22/16 07:50 |
| 3500163 | ASL-MW961-July2016 | 537 | 07/21/16 14:25 | Client | 07/22/16 07:50 |
| 3500164 | ASL-MW14-July2016 | 537 | 07/21/16 15:15 | Client | 07/22/16 07:50 |
| 3500165 | ASL-MW12A-July2016 | 537 | 07/21/16 16:30 | Client | 07/22/16 07:50 |

Report Summary

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Jessie Brasch at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Jussie Braselo

Analytical Services Manager

Title

Page 1 of 5

08/18/2016

Date

Client Name: United States Army Corp of Engineers

Report #: 368228

Authorized Signature

Client Name: United States Army Corp of Engineers Report #: 368228

Sampling Point: WW012-July2016 PWS ID: Not Supplied

| | | | EEA Met | hods | | | | | |
|-----------------|--------------------------------------|--------|--------------|------|--------|-------|---------------------|------------------|------------|
| Analyte ID # | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | | 9.0 | < 9.0 | ng/L | 08/03/16 08:10 | 08/06/16 02:15 | 3500155 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | | 1.0 | 12 | ng/L | 08/03/16 08:10 | 08/06/16 02:15 | 3500155 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | | 3.0 | 89 | ng/L | 08/03/16 08:10 | 08/06/16 02:15 | 3500155 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | | 2.0 | < 2.0 | ng/L | 08/03/16 08:10 | 08/06/16 02:15 | 3500155 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 4.0 | < 4.0 | ng/L | 08/03/16 08:10 | 08/06/16 02:15 | 3500155 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | | 2.0 | 50 | ng/L | 08/03/16 08:10 | 08/06/16 02:15 | 3500155 |

Sampling Point: OSL-MW08-July2016 PWS ID: Not Supplied

| | | | EEA Met | hods | | | | | |
|-----------------|--------------------------------------|--------|----------------|------|--------|-------|---------------------|------------------|------------|
| Analyte ID # | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | | 9.0 | < 9.0 | ng/L | 08/03/16 08:10 | 08/06/16 03:16 | 3500156 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | | 1.0 | 1.3 | ng/L | 08/03/16 08:10 | 08/06/16 03:16 | 3500156 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | | 3.0 | 6.9 | ng/L | 08/03/16 08:10 | 08/06/16 03:16 | 3500156 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | | 2.0 | < 2.0 | ng/L | 08/03/16 08:10 | 08/06/16 03:16 | 3500156 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 4.0 | 7.6 | ng/L | 08/03/16 08:10 | 08/06/16 03:16 | 3500156 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | | 2.0 | < 2.0 | ng/L | 08/03/16 08:10 | 08/06/16 03:16 | 3500156 |

Sampling Point: FTB PWS ID: Not Supplied

| | | | EEA Met | hods | | | | | |
|-----------------|--------------------------------------|--------|--------------|------|--------|-------|---------------------|------------------|------------|
| Analyte ID # | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | | 9.0 | < 9.0 | ng/L | 08/03/16 08:10 | 08/06/16 08:24 | 3500157 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | | 1.0 | < 1.0 | ng/L | 08/03/16 08:10 | 08/06/16 08:24 | 3500157 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | | 3.0 | < 3.0 | ng/L | 08/03/16 08:10 | 08/06/16 08:24 | 3500157 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | | 2.0 | < 2.0 | ng/L | 08/03/16 08:10 | 08/06/16 08:24 | 3500157 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 4.0 | < 4.0 | ng/L | 08/03/16 08:10 | 08/06/16 08:24 | 3500157 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | | 2.0 | < 2.0 | ng/L | 08/03/16 08:10 | 08/06/16 08:24 | 3500157 |

Client Name: United States Army Corp of Engineers Report #: 368228

Sampling Point: Duplicate PWS ID: Not Supplied

| | | | EEA Met | hods | | | | | |
|-----------------|--------------------------------------|--------|--------------|------|--------|-------|---------------------|------------------|------------|
| Analyte ID # | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | | 9.0 | < 9.0 | ng/L | 08/03/16 08:10 | 08/06/16 02:46 | 3500158 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | | 1.0 | 1.5 | ng/L | 08/03/16 08:10 | 08/06/16 02:46 | 3500158 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | | 3.0 | < 3.0 | ng/L | 08/03/16 08:10 | 08/06/16 02:46 | 3500158 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | | 2.0 | < 2.0 | ng/L | 08/03/16 08:10 | 08/06/16 02:46 | 3500158 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 4.0 | < 4.0 | ng/L | 08/03/16 08:10 | 08/06/16 02:46 | 3500158 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | | 2.0 | 4.0 | ng/L | 08/03/16 08:10 | 08/06/16 02:46 | 3500158 |

Sampling Point: OSL-MW10-July2016 PWS ID: Not Supplied

| | | | EEA Met | hods | | | | | |
|----------------|--------------------------------------|--------|----------------|------|--------|-------|---------------------|------------------|------------|
| Analyte ID# | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | | 9.0 | < 9.0 | ng/L | 08/03/16 08:10 | 08/06/16 03:47 | 3500159 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | | 1.0 | 1.5 | ng/L | 08/03/16 08:10 | 08/06/16 03:47 | 3500159 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | | 3.0 | < 3.0 | ng/L | 08/03/16 08:10 | 08/06/16 03:47 | 3500159 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | | 2.0 | < 2.0 | ng/L | 08/03/16 08:10 | 08/06/16 03:47 | 3500159 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 4.0 | < 4.0 | ng/L | 08/03/16 08:10 | 08/06/16 03:47 | 3500159 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | | 2.0 | 4.2 | ng/L | 08/03/16 08:10 | 08/06/16 03:47 | 3500159 |

Sampling Point: OSL-MW9A-July2016 PWS ID: Not Supplied

| | | | EEA Met | hods | | | | | |
|-----------------|--------------------------------------|--------|--------------|------|--------|-------|---------------------|------------------|------------|
| Analyte ID # | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | | 9.0 | < 9.0 | ng/L | 08/03/16 08:10 | 08/06/16 05:19 | 3500162 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | | 1.0 | 4.2 | ng/L | 08/03/16 08:10 | 08/06/16 05:19 | 3500162 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | | 3.0 | 11 | ng/L | 08/03/16 08:10 | 08/06/16 05:19 | 3500162 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | | 2.0 | < 2.0 | ng/L | 08/03/16 08:10 | 08/06/16 05:19 | 3500162 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 4.0 | < 4.0 | ng/L | 08/03/16 08:10 | 08/06/16 05:19 | 3500162 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | | 2.0 | 6.6 | ng/L | 08/03/16 08:10 | 08/06/16 05:19 | 3500162 |

Client Name: United States Army Corp of Engineers Report #: 368228

Sampling Point: ASL-MW961-July2016 PWS ID: Not Supplied

| | | | EEA Met | hods | | | | | |
|-----------------|--------------------------------------|--------|--------------|------|--------|-------|---------------------|------------------|------------|
| Analyte ID # | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | | 9.0 | < 9.0 | ng/L | 08/03/16 08:10 | 08/06/16 05:50 | 3500163 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | | 1.0 | 7.6 | ng/L | 08/03/16 08:10 | 08/06/16 05:50 | 3500163 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | | 3.0 | 19 | ng/L | 08/03/16 08:10 | 08/06/16 05:50 | 3500163 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | | 2.0 | < 2.0 | ng/L | 08/03/16 08:10 | 08/06/16 05:50 | 3500163 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 4.0 | < 4.0 | ng/L | 08/03/16 08:10 | 08/06/16 05:50 | 3500163 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | | 2.0 | 4.3 | ng/L | 08/03/16 08:10 | 08/06/16 05:50 | 3500163 |

Sampling Point: ASL-MW14-July2016 PWS ID: Not Supplied

| | | | EEA Met | hods | | | | | |
|-----------------|--------------------------------------|--------|--------------|------|--------|-------|---------------------|------------------|------------|
| Analyte ID # | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | | 9.0 | < 9.0 | ng/L | 08/03/16 08:10 | 08/06/16 06:21 | 3500164 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | | 1.0 | < 1.0 | ng/L | 08/03/16 08:10 | 08/06/16 06:21 | 3500164 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | | 3.0 | < 3.0 | ng/L | 08/03/16 08:10 | 08/06/16 06:21 | 3500164 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | | 2.0 | < 2.0 | ng/L | 08/03/16 08:10 | 08/06/16 06:21 | 3500164 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 4.0 | < 4.0 | ng/L | 08/03/16 08:10 | 08/06/16 06:21 | 3500164 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | | 2.0 | < 2.0 | ng/L | 08/03/16 08:10 | 08/06/16 06:21 | 3500164 |

Sampling Point: ASL-MW12A-July2016 PWS ID: Not Supplied

| | | | EEA Met | hods | | | | | |
|-----------------|--------------------------------------|--------|--------------|------|--------|-------|---------------------|------------------|------------|
| Analyte ID # | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | | 9.0 | < 9.0 | ng/L | 08/03/16 08:10 | 08/06/16 06:52 | 3500165 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | | 1.0 | 36 | ng/L | 08/03/16 08:10 | 08/06/16 06:52 | 3500165 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | | 3.0 | 5.5 | ng/L | 08/03/16 08:10 | 08/06/16 06:52 | 3500165 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | | 2.0 | < 2.0 | ng/L | 08/03/16 08:10 | 08/06/16 06:52 | 3500165 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 4.0 | < 4.0 | ng/L | 08/03/16 08:10 | 08/06/16 06:52 | 3500165 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | | 2.0 | 2.6 | ng/L | 08/03/16 08:10 | 08/06/16 06:52 | 3500165 |

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

| Reg Limit Type: | MCL | SMCL | AL |
|-----------------|-----|------|----|
| Symbol: | * | ۸ | ! |

Lab Definitions

Report #: 368228

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / **Laboratory Reagent Blank (LRB)** - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample al6iquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.



Eaton Analytical

Batch # 368228 Order # 300219 110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207

| Scott.c. forbase usace, compliance compliance and compliance and confidence and collection sample remarks and collection and pare time and par |
|--|
| SAMPLING SITE TEST NAME SAMPLE REMARKS CHLORIN TO 13 - 1 - 1 - 2 - 1 - 2 - 2 - 2 - 2 - 2 - 2 |
| 012 - July 2016 method 537 al-Ass |
| 1008 - Jay Life (Action 5.4) |
| Thenk mothers 537 |
| icek Method 537 |
| 494 - Jul 3016 Matheway 537 |
| 2961-July Die Matheod S |
| - 90 14 - 24 sale mathew 533 |
| 051-mw10-504/2016/ |
| 1/23-16 |
| RECEIVED BY:(Signature) DATE TIME LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT LAB COMMENTS |
| RECEIVED BY:(Signature) DATE TIME Cross Offs on COC by Client |
| TORY BY: DATE |
| nrking days) 100% orking days) 125% |
| RW* = Rush Written: (5 working days) 75% SP* = Weekend, Holiday CALL than 48 hours CALL be subject to additional charges. STAT* = Less than 48 hours CALL capability additional charges. |

Sheri Spurgeon

From:

Friday, July 22, 2016 10:44 AM Jessie Brasch Sent:

Subject: ë

RE: Order 300219 Sheri Spurgeon

Ok, miscommunication when Ron Quoted the project... pricing was only provided for a FD and a MS, not the MSD. I spoke to Scott Forbes and he ok'd the addition of the MSD.

The sample site labeled Duplicate will be the sample type Field Duplicate with NO parent sample association; it will just be treated as a regular sample.

Please note my new email address is now <u>JessieBrasch@EurofinsUS.com</u>, please update your address book as <u>JessieVarab@EurofinsUS.com</u> will only be active for a short period of time.

Jessie Brasch

Mobile: +1 574 339 6418 Phone: +1 574 472 5564

Email: JessieBrasch@EurofinsUS.com

8-18-16 Per the laboratory Technical Manager, in order for a sample to be a true Field Duplicate within the EEA LIMS, there must Scott Forbes the batch QC was met therefore the sample labeled Duplicate was changed to a sample type of Field Sample (FS) be a parent sample associated and linked in our system. Since the addition of an MSD for this report group was approved by and was treated as a field sample. JB (EEA) $\Box \psi_{\mathcal{LSSU}}$ $\psi_{\mathcal{LSSU}}$ Analytical Services Manager





Eurofins Eaton Analytical

Run Log

37

| 23 |
|-----------|
| Method: |
| 218890 |
| Run ID: 2 |

| <u>I ype</u> | Sample Id | Sample Site | Matrix | <u>Instrument ID</u> | Analysis Date | Calibration File |
|--------------|-----------|--------------------|--------|----------------------|------------------|------------------|
| CCL | 3510919 | | SO | ζ | 08/06/2016 00:12 | 080516M537a.mdb |
| LRB | 3510862 | | RW | ζ | 08/06/2016 01:13 | 080516M537a.mdb |
| FBL | 3510863 | | RW | ζ | 08/06/2016 01:44 | 080516M537a.mdb |
| FS | 3500155 | WW012-July2016 | GW | ζ | 08/06/2016 02:15 | 080516M537a.mdb |
| FS | 3500158 | Duplicate | GW | ζ | 08/06/2016 02:46 | 080516M537a.mdb |
| FS | 3500156 | OSL-MW08-July2016 | GW | ζ | 08/06/2016 03:16 | 080516M537a.mdb |
| FS | 3500159 | OSL-MW10-July2016 | GW | ζ | 08/06/2016 03:47 | 080516M537a.mdb |
| LFSMM | 3500160 | OSL-MW10-July2016 | GW | ζ | 08/06/2016 04:18 | 080516M537a.mdb |
| FSMDM | 3500161 | OSL-MW10-July2016 | GW | ζ | 08/06/2016 04:49 | 080516M537a.mdb |
| FS | 3500162 | OSL-MW9A-July2016 | GW | ζ | 08/06/2016 05:19 | 080516M537a.mdb |
| FS | 3500163 | ASL-MW961-July2016 | GW | ζ | 08/06/2016 05:50 | 080516M537a.mdb |
| S- | 3500164 | ASL-MW14-July2016 | GW | ζ | 08/06/2016 06:21 | 080516M537a.mdb |
| FS | 3500165 | ASL-MW12A-July2016 | GW | ბ | 08/06/2016 06:52 | 080516M537a.mdb |
| FTB | 3500157 | FTB | RW | ბ | 08/06/2016 08:24 | 080516M537a.mdb |
| CCM | 3510920 | | SO | ζ | 08/06/2016 09:26 | 080516M537a.mdb |

| Sample Type | | | | | | | | | | | | | | | | |
|----------------|--------------------------------------|--------|-----|----------------|----------------|----------|---------|-------|---------------|----------|-------|-----|---------------|------------------|------------------|------------|
| | Analyte | Method | MRL | Client ID | Result Flag | Amount | Target | Units | % Recovery | Recovery | / RPD | RPD | Dil Factor | Extracted | Analyzed | EEA ID# |
| CCL | IS-PFOA-13C2 | 537 | A/N | 1 | | 3548.20 | 3548.2 | ng/L | 100 | 50 - 150 | | | 1.0 | 08/01/2016 09:50 | 08/06/2016 00:12 | 3510919 |
| CCL | IS-PFOS-13C4 | 537 | A/N | - | | 1850.96 | 1850.96 | ng/L | 100 | 50 - 150 | | l | 1.0 | 08/01/2016 09:50 | 08/06/2016 00:12 | 3510919 |
| CCL | SS-PFDA-13C2 | 537 | N/A | | | 95.5758 | 100 | ng/L | 96 | 70 - 130 | | i | 1.0 | 08/01/2016 09:50 | 08/06/2016 00:12 | 3510919 |
| CCL | SS-PFHxA-13C2 | 537 | A/N | - | | 48.7041 | 50.0 | ng/L | 97 | 70 - 130 | | i | 1.0 | 08/01/2016 09:50 | 08/06/2016 00:12 | 3510919 |
| CCL | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | | | 10.0145 | 9.0 | ng/L | 111 | 50 - 150 | 1 | i | 1.0 | 08/01/2016 09:50 | 08/06/2016 00:12 | 3510919 |
| CCL | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | | | 0.9758 | 1.0 | ng/L | 86 | 50 - 150 | 1 | i | 1.0 | 08/01/2016 09:50 | 08/06/2016 00:12 | 3510919 |
| CGL | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | | | 2.8156 | 3.0 | ng/L | 94 | 50 - 150 | 1 | i | 1.0 | 08/01/2016 09:50 | 08/06/2016 00:12 | 3510919 |
| CCL | Perfluorononanoic acid (PFNA) | 537 | 2.0 | I | | 1.9703 | 2:0 | ng/L | 66 | 50 - 150 | | l | 1.0 | 08/01/2016 09:50 | 08/06/2016 00:12 | 3510919 |
| CCL | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | I | | 3.7191 | 4.0 | ng/L | 93 | 50 - 150 | | i | 1:0 | 08/01/2016 09:50 | 08/06/2016 00:12 | 3510919 |
| CCL | Perfluorooctanoic acid (PFOA) | 537 | 2:0 | I | | 2.0828 | 2:0 | ng/L | 401 | 50 - 150 | | l | 1.0 | 08/01/2016 09:50 | 08/06/2016 00:12 | 3510919 |
| LRB | IS-PFOA-13C2 | 537 | N/A | 1 | | 3178.60 | 3548.2 | ng/L | 06 | 50 - 150 | 1 | ı | 0.94 | 08/03/2016 08:10 | 08/06/2016 01:13 | 3510862 |
| LRB | IS-PFOS-13C4 | 537 | N/A | - | | 1708.80 | 1850.96 | ng/L | 92 | 50 - 150 | 1 | ı | 0.94 | 08/03/2016 08:10 | 08/06/2016 01:13 | 3510862 |
| LRB | SS-PFDA-13C2 | 537 | N/A | 1 | | 97.3503 | 100 | ng/L | 104 | 70 - 130 | 1 | ı | 0.94 | 08/03/2016 08:10 | 08/06/2016 01:13 | 3510862 |
| LRB | SS-PFHxA-13C2 | 537 | N/A | 1 | | 48.3139 | 50.0 | ng/L | 103 | 70 - 130 | 1 | ı | 0.94 | 08/03/2016 08:10 | 08/06/2016 01:13 | 3510862 |
| LRB | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | 1 | v | 0.6 | | ng/L | i | 1 | ı | ı | 0.94 | 08/03/2016 08:10 | 08/06/2016 01:13 | 3510862 |
| LRB | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | - | v | 1.0 | | ng/L | i | - | 1 | ı | 0.94 | 08/03/2016 08:10 | 08/06/2016 01:13 | 3510862 |
| LRB | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | 1 | v | 3.0 | | ng/L | i | 1 | i | i | 0.94 | 08/03/2016 08:10 | 08/06/2016 01:13 | 3510862 |
| LRB | Perfluorononanoic acid (PFNA) | 537 | 2.0 | ı | v | 2.0 | | ng/L | i | 1 | I | i | 0.94 | 08/03/2016 08:10 | 08/06/2016 01:13 | 3510862 |
| LRB | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | 1 | v | 4.0 | | ng/L | 1 | 1 | 1 | I | 0.94 | 08/03/2016 08:10 | 08/06/2016 01:13 | 3510862 |
| LRB | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | 1 | v | 2.0 | | ng/L | ı | 1 | 1 | i | 0.94 | 08/03/2016 08:10 | 08/06/2016 01:13 | 3510862 |
| FBL | IS-PFOA-13C2 | 537 | N/A | | | 3318.92 | 3548.2 | ng/L | 94 | 50 - 150 | | i | 1:0 | 08/03/2016 08:10 | 08/06/2016 01:44 | 3510863 |
| FBL | IS-PFOS-13C4 | 537 | N/A | | | 1762.20 | 1850.96 | ng/L | 92 | 50 - 150 | | ı | 1.0 | 08/03/2016 08:10 | 08/06/2016 01:44 | 3510863 |
| FBL | SS-PFDA-13C2 | 537 | N/A | - | | 100.1940 | 100 | ng/L | 100 | 70 - 130 | | i | 1.0 | 08/03/2016 08:10 | 08/06/2016 01:44 | 3510863 |
| FBL | SS-PFHxA-13C2 | 537 | N/A | I | | 49.1983 | 50.0 | ng/L | 86 | 70 - 130 | | i | 1.0 | 08/03/2016 08:10 | 08/06/2016 01:44 | 3510863 |
| FBL | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | - | | 9.6409 | 9.0 | ng/L | 107 | 50 - 150 | | i | 1.0 | 08/03/2016 08:10 | 08/06/2016 01:44 | 3510863 |
| FBL | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | | | 0.8551 | 1.0 | ng/L | 98 | 50 - 150 | | ı | 1.0 | 08/03/2016 08:10 | 08/06/2016 01:44 | 3510863 |
| FBL | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | - | | 2.6269 | 3.0 | ng/L | 88 | 50 - 150 | | i | 1.0 | 08/03/2016 08:10 | 08/06/2016 01:44 | 3510863 |
| FBL | Perfluorononanoic acid (PFNA) | 537 | 2.0 | | | 1.8160 | 2.0 | ng/L | 91 | 50 - 150 | | ı | 1.0 | 08/03/2016 08:10 | 08/06/2016 01:44 | 3510863 |
| FBL | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | - | | 3.3268 | 4.0 | ng/L | 83 | 50 - 150 | - | i | 1.0 | 08/03/2016 08:10 | 08/06/2016 01:44 | 3510863 |
| FBL | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | | | 2.0034 | 2.0 | ng/L | 100 | 50 - 150 | 1 | i | 1.0 | 08/03/2016 08:10 | 08/06/2016 01:44 | 3510863 |
| FS | IS-PFOA-13C2 | 537 | N/A | WW012-July2016 | | 3570.81 | 3548.2 | ng/L | 101 | 50 - 150 | i | i | 96:0 | 08/03/2016 08:10 | 08/06/2016 02:15 | 3500155 |
| FS | IS-PFOS-13C4 | 537 | N/A | WW012-July2016 | | 1835.74 | 1850.96 | ng/L | 66 | 50 - 150 | i | i | 96.0 | 08/03/2016 08:10 | 08/06/2016 02:15 | 3500155 |
| FS | SS-PFDA-13C2 | 537 | N/A | WW012-July2016 | | 109.7650 | 100 | ng/L | 114 | 70 - 130 | i | i | 96.0 | 08/03/2016 08:10 | 08/06/2016 02:15 | 3500155 |
| FS | SS-PFHxA-13C2 | 537 | N/A | WW012-July2016 | | 49.9336 | 50.0 | ng/L | 104 | 70 - 130 | i | i | 96:0 | 08/03/2016 08:10 | 08/06/2016 02:15 | 3500155 |
| FS | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | WW012-July2016 | v | 9.0 | | ng/L | i | 1 | 1 | ı | 96.0 | 08/03/2016 08:10 | 08/06/2016 02:15 | 3500155 |
| FS | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | WW012-July2016 | | 12 | | ng/L | i | 1 | i | i | 96:0 | 08/03/2016 08:10 | 08/06/2016 02:15 | 3500155 |
| FS | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | WW012-July2016 | | 88 | | ng/L | i | 1 | 1 | I | 96.0 | 08/03/2016 08:10 | 08/06/2016 02:15 | 3500155 |
| ည ige | Perfluorononanoic acid (PFNA) | 537 | 2.0 | WW012-July2016 | v | 2.0 | | ng/L | 1 | 1 | I | ł | 96.0 | 08/03/2016 08:10 | 08/06/2016 02:15 | 3500155 |
| FS | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | WW012-July2016 | v | 4.0 | | ng/L | 1 | I | ı | I | 96.0 | 08/03/2016 08:10 | 08/06/2016 02:15 | 3500155 |
| SE Of | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | WW012-July2016 | | C | | // 50 | | | | | 000 | 08/03/2016 08:10 | 14.00 | 1 |

| | | | | | 3 | ರ್ಷ summary Report (cont.) | ort (cont.) | | | | | | | | | |
|----------------|--------------------------------------|--------|-----|-------------------|----------------|----------------------------|-------------|-------|---------------|--------------------|-----|--------------|---------------|------------------|------------------|------------|
| Sample Type | Analyte | Method | MRL | Client ID | Result Flag | Amount | Target | Units | % Recovery | Recovery Limits | RPD | RPD Limit | Dil Factor | Extracted | Analyzed | EEA ID# |
| FS | IS-PFOA-13C2 | 537 | A/N | Duplicate | | 3215.49 | 3548.2 | ng/L | 91 | 50 - 150 | L | i | 0.93 | 08/03/2016 08:10 | 08/06/2016 02:46 | 3500158 |
| FS | IS-PFOS-13C4 | 537 | A/N | Duplicate | | 1723.64 | 1850.96 | ng/L | 93 | 50 - 150 | | - | 0.93 | 08/03/2016 08:10 | 08/06/2016 02:46 | 3500158 |
| FS | SS-PFDA-13C2 | 537 | N/A | Duplicate | П | 92.5206 | 100 | ng/L | 66 | 70 - 130 | | i | 0.93 | 08/03/2016 08:10 | 08/06/2016 02:46 | 3500158 |
| S. | SS-PFHxA-13C2 | 537 | A/N | Duplicate | | 48.1250 | 20.0 | ng/L | 103 | 70 - 130 | 1 | i | 0.93 | 08/03/2016 08:10 | 08/06/2016 02:46 | 3500158 |
| FS | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | Duplicate | v | 9.0 | | ng/L | - | | | i | 0.93 | 08/03/2016 08:10 | 08/06/2016 02:46 | 3500158 |
| FS | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | Duplicate | | 1.5 | | ng/L | - | - | 1 | i | 0.93 | 08/03/2016 08:10 | 08/06/2016 02:46 | 3500158 |
| FS | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | Duplicate | v | 3.0 | | ng/L | i | | 1 | i | 0.93 | 08/03/2016 08:10 | 08/06/2016 02:46 | 3500158 |
| FS | Perfluorononanoic acid (PFNA) | 537 | 2.0 | Duplicate | v | 2.0 | | ng/L | | | 1 | i | 0.93 | 08/03/2016 08:10 | 08/06/2016 02:46 | 3500158 |
| FS | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | Duplicate | v | 4.0 | | ng/L | i | | 1 | i | 0.93 | 08/03/2016 08:10 | 08/06/2016 02:46 | 3500158 |
| FS | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | Duplicate | | 4.0 | | ng/L | - | - | | i | 0.93 | 08/03/2016 08:10 | 08/06/2016 02:46 | 3500158 |
| FS | IS-PFOA-13C2 | 537 | A/N | OSL-MW08-July2016 | | 3554.09 | 3548.2 | ng/L | 100 | 50 - 150 | 1 | i | 0.91 | 08/03/2016 08:10 | 08/06/2016 03:16 | 3500156 |
| FS | IS-PFOS-13C4 | 537 | A/N | OSL-MW08-July2016 | | 1906.26 | 1850.96 | ng/L | 103 | 50 - 150 | ١ | i | 0.91 | 08/03/2016 08:10 | 08/06/2016 03:16 | 3500156 |
| FS | SS-PFDA-13C2 | 537 | A/N | OSL-MW08-July2016 | | 88.0822 | 100 | ng/L | 6 | 70 - 130 | ١ | i | 0.91 | 08/03/2016 08:10 | 08/06/2016 03:16 | 3500156 |
| FS | SS-PFHxA-13C2 | 537 | A/N | OSL-MW08-July2016 | | 45.0948 | 50.0 | ng/L | 66 | 70 - 130 | 1 | i | 0.91 | 08/03/2016 08:10 | 08/06/2016 03:16 | 3500156 |
| FS | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | OSL-MW08-July2016 | v | 9.0 | | ng/L | 1 | ı | 1 | i | 0.91 | 08/03/2016 08:10 | 08/06/2016 03:16 | 3500156 |
| FS | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | OSL-MW08-July2016 | | 1.3 | | ng/L | 1 | 1 | 1 | i | 0.91 | 08/03/2016 08:10 | 08/06/2016 03:16 | 3500156 |
| FS | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | OSL-MW08-July2016 | | 6.9 | | ng/L | 1 | - | 1 | i | 0.91 | 08/03/2016 08:10 | 08/06/2016 03:16 | 3500156 |
| FS | Perfluorononanoic acid (PFNA) | 537 | 2.0 | OSL-MW08-July2016 | v | 2.0 | | ng/L | 1 | 1 | 1 | i | 0.91 | 08/03/2016 08:10 | 08/06/2016 03:16 | 3500156 |
| FS | Perfluoroodane sulfonate (PFOS) | 537 | 4.0 | OSL-MW08-July2016 | | 7.6 | | ng/L | 1 | 1 | 1 | i | 0.91 | 08/03/2016 08:10 | 08/06/2016 03:16 | 3500156 |
| FS | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | OSL-MW08-July2016 | v | 2.0 | | ng/L | I | ı | 1 | i | 0.91 | 08/03/2016 08:10 | 08/06/2016 03:16 | 3500156 |
| FS | IS-PFOA-13C2 | 537 | A/N | OSL-MW10-July2016 | | 3324.78 | 3548.2 | ng/L | 94 | 50 - 150 | | i | 0.92 | 08/03/2016 08:10 | 08/06/2016 03:47 | 3500159 |
| FS | IS-PFOS-13C4 | 537 | A/N | OSL-MW10-July2016 | | 1805.47 | 1850.96 | ng/L | 86 | 50 - 150 | | i | 0.92 | 08/03/2016 08:10 | 08/06/2016 03:47 | 3500159 |
| FS | SS-PFDA-13C2 | 537 | A/A | OSL-MW10-July2016 | | 91.2849 | 100 | ng/L | 66 | 70 - 130 | | i | 0.92 | 08/03/2016 08:10 | 08/06/2016 03:47 | 3500159 |
| FS | SS-PFHxA-13C2 | 537 | A/N | OSL-MW10-July2016 | | 45.7717 | 20.0 | ng/L | 100 | 70 - 130 | | i | 0.92 | 08/03/2016 08:10 | 08/06/2016 03:47 | 3500159 |
| FS | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | OSL-MW10-July2016 | v | 9.0 | | ng/L | | | | i | 0.92 | 08/03/2016 08:10 | 08/06/2016 03:47 | 3500159 |
| FS | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | OSL-MW10-July2016 | | 1.5 | | ng/L | - | - | 1 | i | 0.92 | 08/03/2016 08:10 | 08/06/2016 03:47 | 3500159 |
| FS | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | OSL-MW10-July2016 | v | 3.0 | | ng/L | : | | | i | 0.92 | 08/03/2016 08:10 | 08/06/2016 03:47 | 3500159 |
| FS | Perfluorononanoic acid (PFNA) | 537 | 2.0 | OSL-MW10-July2016 | v | 2.0 | | ng/L | - | - | | i | 0.92 | 08/03/2016 08:10 | 08/06/2016 03:47 | 3500159 |
| FS | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | OSL-MW10-July2016 | v | 4.0 | | ng/L | : | | 1 | i | 0.92 | 08/03/2016 08:10 | 08/06/2016 03:47 | 3500159 |
| FS. | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | OSL-MW10-July2016 | | 4.2 | | ng/L | i | - | 1 | i | 0.92 | 08/03/2016 08:10 | 08/06/2016 03:47 | 3500159 |
| LFSMM | IS-PFOA-13C2 | 537 | N/A | OSL-MW10-July2016 | | 3365.24 | 3548.2 | ng/L | 98 | 50 - 150 | 1 | i | 1.0 | 08/03/2016 08:10 | 08/06/2016 04:18 | 3500160 |
| LFSMM | IS-PFOS-13C4 | 537 | A/N | OSL-MW10-July2016 | | 1749.21 | 1850.96 | ng/L | 98 | 50 - 150 | 1 | i | 1.0 | 08/03/2016 08:10 | 08/06/2016 04:18 | 3500160 |
| LFSMM | SS-PFDA-13C2 | 537 | A/N | OSL-MW10-July2016 | | 97.4978 | 100 | ng/L | 26 | 70 - 130 | 1 | i | 1.0 | 08/03/2016 08:10 | 08/06/2016 04:18 | 3500160 |
| LFSMM | SS-PFHxA-13C2 | 537 | A/N | OSL-MW10-July2016 | | 49.4654 | 50.0 | ng/L | 66 | 70 - 130 | 1 | i | 1.0 | 08/03/2016 08:10 | 08/06/2016 04:18 | 3500160 |
| LFSMM | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | OSL-MW10-July2016 | | 663.7530 | 675 | ng/L | 86 | 70 - 130 | 1 | i | 1.0 | 08/03/2016 08:10 | 08/06/2016 04:18 | 3500160 |
| LFSMM | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | OSL-MW10-July2016 | | 74.6872 | 76.51332 | ng/L | 86 | 70 - 130 | 1 | i | 1.0 | 08/03/2016 08:10 | 08/06/2016 04:18 | 3500160 |
| LFSMM | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | OSL-MW10-July2016 | | 221.4730 | 225 | ng/L | 86 | 70 - 130 | 1 | i | 1.0 | 08/03/2016 08:10 | 08/06/2016 04:18 | 3500160 |
| HESMM - | Perfluorononanoic acid (PFNA) | 537 | 2.0 | OSL-MW10-July2016 | | 142.5650 | 150 | ng/L | 92 | 70 - 130 | 1 | i | 1.0 | 08/03/2016 08:10 | 08/06/2016 04:18 | 3500160 |
| age | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | OSL-MW10-July2016 | | 280.6420 | 300 | ng/L | 94 | 70 - 130 | I | l | 1.0 | 08/03/2016 08:10 | 08/06/2016 04:18 | 3500160 |
| LFSMM | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | OSL-MW10-July2016 | | 151.9220 | 154.23164 | ng/L | 86 | 70 - 130 | 1 | I | 1.0 | 08/03/2016 08:10 | 08/06/2016 04:18 | 3500160 |
| wows 2-of | IS-PFOA-13C2 | 537 | N/A | OSL-MW10-July2016 | | 3448.69 | 3548.2 | ng/L | 26 | 50 - 150 | | i | 1.0 | 08/03/2016 08:10 | 08/06/2016 04:49 | 3500161 |

| | | | | | Ö | QC Summary Report (cont.) | ort (cont.) | | | | | | | | | |
|----------------|--------------------------------------|--------|-----|--------------------|----------------|---------------------------|-------------|-------|---------------|--------------------|-------|-------|---------------|------------------|------------------|------------|
| Sample Type | Analyte | Method | MRL | Client ID | Result Flag | Amount | Target | Units | % Recovery | Recovery Limits | RPD _ | Limit | Dil Factor | Extracted | Analyzed | EEA ID# |
| LFSMDM | IS-PFOS-13C4 | 537 | Α/X | OSL-MW10-July2016 | | 1772.25 | 1850.96 | ng/L | 96 | 50 - 150 | : | | 1.0 | 08/03/2016 08:10 | 08/06/2016 04:49 | 3500161 |
| LFSMDM | SS-PFDA-13C2 | 537 | Α̈́ | OSL-MW10-July2016 | П | 100.0230 | 100 | ng/L | 100 | 70 - 130 | П | | 1.0 | 08/03/2016 08:10 | 08/06/2016 04:49 | 3500161 |
| LFSMDM | SS-PFHxA-13C2 | 537 | Α/N | OSL-MW10-July2016 | П | 50.6036 | 50.0 | ng/L | 101 | 70 - 130 | | | 1.0 | 08/03/2016 08:10 | 08/06/2016 04:49 | 3500161 |
| LFSMDM | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | OSL-MW10-July2016 | | 684.5460 | 675 | ng/L | 101 | 70 - 130 | 3.1 | 30 | 1.0 | 08/03/2016 08:10 | 08/06/2016 04:49 | 3500161 |
| LFSMDM | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | OSL-MW10-July2016 | П | 75.9383 | 76.51332 | ng/L | 66 | 70 - 130 | 1.7 | 30 | 1.0 | 08/03/2016 08:10 | 08/06/2016 04:49 | 3500161 |
| LFSMDM | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | OSL-MW10-July2016 | | 231.3740 | 225 | ng/L | 103 | 70 - 130 | 4.4 | 30 | 1.0 | 08/03/2016 08:10 | 08/06/2016 04:49 | 3500161 |
| LFSMDM | Perfluorononanoic acid (PFNA) | 537 | 2:0 | OSL-MW10-July2016 | | 146.2960 | 150 | ng/L | 86 | 70 - 130 | 5.6 | 30 | 1.0 | 08/03/2016 08:10 | 08/06/2016 04:49 | 3500161 |
| LFSMDM | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | OSL-MW10-July2016 | | 286.9560 | 300 | ng/L | 96 | 70 - 130 | 2.2 | 30 | 1.0 | 08/03/2016 08:10 | 08/06/2016 04:49 | 3500161 |
| LFSMDM | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | OSL-MW10-July2016 | | 152.8200 | 154.23164 | ng/L | 66 | 70 - 130 | 9.0 | 30 | 1.0 | 08/03/2016 08:10 | 08/06/2016 04:49 | 3500161 |
| FS | IS-PFOA-13C2 | 537 | A/N | OSL-MW9A-July2016 | | 2998.45 | 3548.2 | ng/L | 85 | 50 - 150 | 1 | 1 | 0.93 | 08/03/2016 08:10 | 08/06/2016 05:19 | 3500162 |
| FS | IS-PFOS-13C4 | 537 | N/A | OSL-MW9A-July2016 | | 1667.76 | 1850.96 | ng/L | 06 | 50 - 150 | ı | i | 0.93 | 08/03/2016 08:10 | 08/06/2016 05:19 | 3500162 |
| S. | SS-PFDA-13C2 | 537 | A/N | OSL-MW9A-July2016 | | 97.4791 | 100 | ng/L | 105 | 70 - 130 | 1 | i | 0.93 | 08/03/2016 08:10 | 08/06/2016 05:19 | 3500162 |
| FS | SS-PFHxA-13C2 | 537 | A/N | OSL-MW9A-July2016 | | 47.6684 | 20.0 | ng/L | 103 | 70 - 130 | i | i | 0.93 | 08/03/2016 08:10 | 08/06/2016 05:19 | 3500162 |
| FS | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | OSL-MW9A-July2016 | ٧ | 9.0 | | ng/L | 1 | ı | ı | i | 0.93 | 08/03/2016 08:10 | 08/06/2016 05:19 | 3500162 |
| FS | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | OSL-MW9A-July2016 | | 4.2 | | ng/L | I | 1 | 1 | | 0.93 | 08/03/2016 08:10 | 08/06/2016 05:19 | 3500162 |
| FS | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | OSL-MW9A-July2016 | | 11 | | ng/L | 1 | 1 | 1 | 1 | 0.93 | 08/03/2016 08:10 | 08/06/2016 05:19 | 3500162 |
| FS | Perfluorononanoic acid (PFNA) | 537 | 2.0 | OSL-MW9A-July2016 | v | 2.0 | | ng/L | I | 1 | 1 | | 0.93 | 08/03/2016 08:10 | 08/06/2016 05:19 | 3500162 |
| FS | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | OSL-MW9A-July2016 | v | 4.0 | | ng/L | i | ı | 1 | ; | 0.93 | 08/03/2016 08:10 | 08/06/2016 05:19 | 3500162 |
| FS | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | OSL-MW9A-July2016 | | 9.9 | | ng/L | 1 | - | - | i | 0.93 | 08/03/2016 08:10 | 08/06/2016 05:19 | 3500162 |
| FS | IS-PFOA-13C2 | 537 | A/N | ASL-MW961-July2016 | | 3288.18 | 3548.2 | ng/L | 93 | 50 - 150 | ī | i | 6.0 | 08/03/2016 08:10 | 08/06/2016 05:50 | 3500163 |
| FS | IS-PFOS-13C4 | 537 | A/A | ASL-MW961-July2016 | | 1771.06 | 1850.96 | ng/L | 96 | 50 - 150 | | | 6.0 | 08/03/2016 08:10 | 08/06/2016 05:50 | 3500163 |
| FS | SS-PFDA-13C2 | 537 | A/A | ASL-MW961-July2016 | | 90.1573 | 100 | ng/L | 100 | 70 - 130 | 1 | i | 0.9 | 08/03/2016 08:10 | 08/06/2016 05:50 | 3500163 |
| FS | SS-PFHxA-13C2 | 537 | ΑŅ | ASL-MW961-July2016 | | 44.5197 | 50.0 | ng/L | 66 | 70 - 130 | | : | 6.0 | 08/03/2016 08:10 | 08/06/2016 05:50 | 3500163 |
| FS | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | ASL-MW961-July2016 | v | 9.0 | | ng/L | 1 | 1 | 1 | | 0.9 | 08/03/2016 08:10 | 08/06/2016 05:50 | 3500163 |
| FS | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | ASL-MW961-July2016 | | 7.6 | | ng/L | - | - | 1 | i | 6:0 | 08/03/2016 08:10 | 08/06/2016 05:50 | 3500163 |
| FS | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | ASL-MW961-July2016 | | 19 | | ng/L | - | - | 1 | i | 0.9 | 08/03/2016 08:10 | 08/06/2016 05:50 | 3500163 |
| ST. | Perfluorononanoic acid (PFNA) | 537 | 2:0 | ASL-MW961-July2016 | v | 2.0 | | ng/L | | ı | Π | - | 6:0 | 08/03/2016 08:10 | 08/06/2016 05:50 | 3500163 |
| S. | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | ASL-MW961-July2016 | v | 4.0 | | ng/L | | ı | ī | : | 6.0 | 08/03/2016 08:10 | 08/06/2016 05:50 | 3500163 |
| FS | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | ASL-MW961-July2016 | | 4.3 | | ng/L | i | | | | 6:0 | 08/03/2016 08:10 | 08/06/2016 05:50 | 3500163 |
| FS | IS-PFOA-13C2 | 537 | A/N | ASL-MW14-July2016 | | 3485.21 | 3548.2 | ng/L | 86 | 50 - 150 | | 1 | 0.95 | 08/03/2016 08:10 | 08/06/2016 06:21 | 3500164 |
| FS | IS-PFOS-13C4 | 537 | A/N | ASL-MW14-July2016 | | 1919.80 | 1850.96 | ng/L | 104 | 50 - 150 | | | 0.95 | 08/03/2016 08:10 | 08/06/2016 06:21 | 3500164 |
| FS | SS-PFDA-13C2 | 537 | A/N | ASL-MW14-July2016 | | 94.9126 | 100 | ng/L | 100 | 70 - 130 | 1 | 1 | 0.95 | 08/03/2016 08:10 | 08/06/2016 06:21 | 3500164 |
| FS | SS-PFHxA-13C2 | 537 | A/N | ASL-MW14-July2016 | | 45.7603 | 50.0 | ng/L | 96 | 70 - 130 | 1 | i | 0.95 | 08/03/2016 08:10 | 08/06/2016 06:21 | 3500164 |
| FS | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | ASL-MW14-July2016 | v | 0.6 | | ng/L | i | ı | 1 | 1 | 0.95 | 08/03/2016 08:10 | 08/06/2016 06:21 | 3500164 |
| FS | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | ASL-MW14-July2016 | v | 1.0 | | ng/L | i | ı | 1 | i | 0.95 | 08/03/2016 08:10 | 08/06/2016 06:21 | 3500164 |
| FS | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | ASL-MW14-July2016 | v | 3.0 | | ng/L | i | ı | 1 | 1 | 0.95 | 08/03/2016 08:10 | 08/06/2016 06:21 | 3500164 |
| FS | Perfluorononanoic acid (PFNA) | 537 | 2.0 | ASL-MW14-July2016 | v | 2.0 | | ng/L | 1 | ı | 1 | 1 | 0.95 | 08/03/2016 08:10 | 08/06/2016 06:21 | 3500164 |
| ۶ P | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | ASL-MW14-July2016 | v | 4.0 | | ng/L | 1 | ı | | 1 | 0.95 | 08/03/2016 08:10 | 08/06/2016 06:21 | 3500164 |
| က age | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | ASL-MW14-July2016 | v | 2.0 | | ng/L | i | ı | 1 | i | 0.95 | 08/03/2016 08:10 | 08/06/2016 06:21 | 3500164 |
| က e 13 | IS-PFOA-13C2 | 537 | Ψ/N | ASL-MW12A-July2016 | | 3283.26 | 3548.2 | ng/L | 93 | 50 - 150 | 1 | | 0.95 | 08/03/2016 08:10 | 08/06/2016 06:52 | 3500165 |
| က္ 3 of | IS-PF0S-13C4 | 537 | Ą/X | ASL-MW12A-July2016 | | 1793.43 | 1850.96 | ng/L | 97 | 50 - 150 | | 1 | 0.95 | 08/03/2016 08:10 | 08/06/2016 06:52 | 3500165 |
| : 1 | | | | | | | | | | | | | | | | |

| | | | | oc | QC Summary Report (cont. | ort (cont.) | | | | | | | | | |
|--------------------------------------|--------|-----|--------------------|----------------|--------------------------|-------------|-------|---------------|--------------------|-----|--------------|---------------|------------------|------------------|------------|
| | Method | MRL | Client ID | Result Flag | Amount | Target | Units | % Recovery | Recovery Limits | RPD | RPD Limit | Dil Factor | Extracted | Analyzed | EEA ID# |
| SS-PFDA-13C2 | 537 | ₹/X | ASL-MW12A-July2016 | | 94.9356 | 100 | ng/L | 100 | 70 - 130 | ! | i | 0.95 | 08/03/2016 08:10 | 08/06/2016 06:52 | 3500165 |
| SS-PFHxA-13C2 | 537 | A/N | ASL-MW12A-July2016 | | 47.6458 | 50.0 | ng/L | 100 | 70 - 130 | 1 | i | 0.95 | 08/03/2016 08:10 | 08/06/2016 06:52 | 3500165 |
| Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | ASL-MW12A-July2016 | v | 9:0 | | ng/L | 1 | - | 1 | i | 0.95 | 08/03/2016 08:10 | 08/06/2016 06:52 | 3500165 |
| Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | ASL-MW12A-July2016 | | 36 | | ng/L | | - | 1 | i | 0.95 | 08/03/2016 08:10 | 08/06/2016 06:52 | 3500165 |
| Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | ASL-MW12A-July2016 | | 5.5 | | ng/L | 1 | - | ! | 1 | 0.95 | 08/03/2016 08:10 | 08/06/2016 06:52 | 3500165 |
| Perfluorononanoic acid (PFNA) | 537 | 2.0 | ASL-MW12A-July2016 | v | 2.0 | | ng/L | - | - | 1 | i | 0.95 | 08/03/2016 08:10 | 08/06/2016 06:52 | 3500165 |
| Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | ASL-MW12A-July2016 | v | 4.0 | | ng/L | - | - | ! | i | 0.95 | 08/03/2016 08:10 | 08/06/2016 06:52 | 3500165 |
| Perfluorooctanoic acid (PFOA) | 537 | 2.0 | ASL-MW12A-July2016 | | 2.6 | | ng/L | - | - | | i | 0.95 | 08/03/2016 08:10 | 08/06/2016 06:52 | 3500165 |
| IS-PFOA-13C2 | 537 | A/N | FTB | | 3441.40 | 3548.2 | ng/L | 6 | 50 - 150 | 1 | i | 0.92 | 08/03/2016 08:10 | 08/06/2016 08:24 | 3500157 |
| IS-PFOS-13C4 | 537 | A/N | FTB | | 1866.00 | 1850.96 | ng/L | 101 | 50 - 150 | 1 | i | 0.92 | 08/03/2016 08:10 | 08/06/2016 08:24 | 3500157 |
| SS-PFDA-13C2 | 537 | A/N | FTB | | 96.0718 | 100 | ng/L | 104 | 70 - 130 | 1 | i | 0.92 | 08/03/2016 08:10 | 08/06/2016 08:24 | 3500157 |
| SS-PFHxA-13C2 | 537 | A/N | FTB | | 45.2274 | 50.0 | ng/L | 86 | 70 - 130 | 1 | i | 0.92 | 08/03/2016 08:10 | 08/06/2016 08:24 | 3500157 |
| Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | FTB | v | 9.0 | | ng/L | i | 1 | ı | i | 0.92 | 08/03/2016 08:10 | 08/06/2016 08:24 | 3500157 |
| Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | FTB | v | 1.0 | | ng/L | i | 1 | I | i | 0.92 | 08/03/2016 08:10 | 08/06/2016 08:24 | 3500157 |
| Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | FTB | v | 3.0 | | ng/L | i | 1 | 1 | i | 0.92 | 08/03/2016 08:10 | 08/06/2016 08:24 | 3500157 |
| Perfluorononanoic acid (PFNA) | 537 | 2.0 | FTB | v | 2.0 | | ng/L | i | 1 | 1 | i | 0.92 | 08/03/2016 08:10 | 08/06/2016 08:24 | 3500157 |
| Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | FTB | v | 4.0 | | ng/L | i | 1 | 1 | i | 0.92 | 08/03/2016 08:10 | 08/06/2016 08:24 | 3500157 |
| Perfluorooctanoic acid (PFOA) | 537 | 2.0 | FTB | v | 2.0 | | ng/L | i | 1 | 1 | i | 0.92 | 08/03/2016 08:10 | 08/06/2016 08:24 | 3500157 |
| IS-PFOA-13C2 | 537 | A/N | | | 3192.00 | 3192 | ng/L | 100 | 50 - 150 | 1 | i | 1.0 | 08/01/2016 09:50 | 08/06/2016 09:26 | 3510920 |
| IS-PFOS-13C4 | 537 | A/N | | | 1659.82 | 1659.82 | ng/L | 100 | 50 - 150 | 1 | i | 1:0 | 08/01/2016 09:50 | 08/06/2016 09:26 | 3510920 |
| SS-PFDA-13C2 | 537 | A/N | | | 97.7816 | 100 | ng/L | 86 | 70 - 130 | 1 | i | 1.0 | 08/01/2016 09:50 | 08/06/2016 09:26 | 3510920 |
| SS-PFHxA-13C2 | 537 | A/N | | | 50.5953 | 50.0 | ng/L | 101 | 70 - 130 | 1 | l | 1.0 | 08/01/2016 09:50 | 08/06/2016 09:26 | 3510920 |
| Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | | | 702.0950 | 675 | ng/L | 104 | 70 - 130 | ! | i | 1.0 | 08/01/2016 09:50 | 08/06/2016 09:26 | 3510920 |
| Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | | | 78.1974 | 75.0 | ng/L | 104 | 70 - 130 | 1 | i | 1.0 | 08/01/2016 09:50 | 08/06/2016 09:26 | 3510920 |
| Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | ı | | 229.8610 | 225 | ng/L | 102 | 70 - 130 | 1 | i | 1:0 | 08/01/2016 09:50 | 08/06/2016 09:26 | 3510920 |
| Perfluorononanoic acid (PFNA) | 537 | 2.0 | - | | 154.2820 | 150 | ng/L | 103 | 70 - 130 | 1 | i | 1:0 | 08/01/2016 09:50 | 08/06/2016 09:26 | 3510920 |
| Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | - | | 309.4890 | 300 | ng/L | 103 | 70 - 130 | 1 | i | 1.0 | 08/01/2016 09:50 | 08/06/2016 09:26 | 3510920 |
| Perfluorooctanoic acid (PFOA) | 537 | 2:0 | | | 153.7330 | 150 | ng/L | 102 | 70 - 130 | | l | 1.0 | 08/01/2016 09:50 | 08/06/2016 09:26 | 3510920 |

| | Sample Type |
|-----------------|--------------|
| Sample Type Key | Type (Abbr.) |
| | Sample Type |
| | Type (Abbr.) |

| Type (Abbr.) | Sample Type Type | Type (Abb |
|--------------|----------------------------|-----------|
| CCL | Continuing Calibration Low | |
| CCM | Continuing Calibration Mid | |
| FS | Field Sample | |
| FTB | Field Trip Blank | |
| FBL | Fortified Blank Low | |
| LFSMDM | LFSM Duplicate Mid | |
| LFSMM | LFSM Mid | |
| LRB | Laboratory Reagent Blank | |

END OF REPORT





LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at $(800)\ 332-4345\ or\ (574)\ 233-4777.$

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STATE CERTIFICATION LIST

| | Certification | State | Certification |
|-------------------------|----------------|-------------------|-----------------|
| State | 40700 | Montana | CERT0026 |
| Alabama | IN00035 | Nebraska | E87775 |
| Alaska | | Nevada | IN00035 |
| Arizona | AZ0432 | New Hampshire* | 2124 |
| Arkansas | IN00035 | New Mexico | IN00035 |
| California | 2920 | New Jersey* | IN598 |
| Colorado | IN035 | New York* | 11398 |
| Colorado Radiochemistry | IN035 | North Carolina | 18700 |
| Connecticut | PH-0132 | | R-035 |
| Delaware | IN035 | North Dakota | 87775 |
| Florida (Primary AB)* | E87775 | Ohio | D9508 |
| Georgia | 929 | Oklahoma | 4074-001 |
| Hawaii | IN035 | Oregon* | 68-00466 |
| Idaho | IN00035/E87775 | Pennsylvania* | IN00035 |
| Illinois* | 200001 | Puerto Rico | LAO00343 |
| Illinois Microbiology | 200001 | Rhode Island | 95005 |
| Indiana Chemistry | C-71-01 | South Carolina | IN00035 |
| Indiana Microbiology | M-76-07 | South Dakota | TN02973 |
| lowa | 098 | Tennessee | |
| Kansas* | E-10233 | Texas* | T104704187-15-8 |
| Kentucky | 90056 | Texas/TCEQ | TX207 |
| Louisiana* | LA160002 | Utah* | IN00035 |
| Maine | IN00035 | Vermont | VT-8775 |
| | 209 | Virginia* | 460275 |
| Maryland | M-IN035 | Washington | C837 |
| Massachusetts | 9926 | West Virginia | 9927 C |
| Michigan | 018-999-338 | Wisconsin | 999766900 |
| Minnesota* | IN035 | Wyoming | IN035 |
| Mississippi | 880 | | |
| Missouri | | Accreditation Boo | lice |

^{*}NELAP/TNI Recognized Accreditation Bodies



LABORATORY CASE NARRATIVE

Client: Converse Laboratories Report #: 361128CN

All method QC was within acceptance limits.

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| Weller Grott | Arrilytical Services Manager | 05/03/2016 |
|----------------------|------------------------------|-------------|
| | Title | Date |
| Authorized Signature | Tide | Page 1 of 1 |



110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207 1 800 332 4345

Laboratory Report

Converse Laboratories Client:

Donna Zang

Attn:

800 Starbuck Ave, Suite B101

Watertown, NY 13601

Report:

361128

Priority:

Standard Written

Status:

Final

PWS ID:

Not Supplied

Lab ELAP #:

11398

| | Client ID | Sample Information Method | Collected | Collected | Received |
|--|--------------------|--|--|--|--|
| EEA | Ollent ID | | Date / Time | By: | Date / Time |
| ID# | Well#18 | 537 | 04/12/16 11:00 | Client | 04/14/16 10:00 |
| 3430806 | | 537 | 04/12/16 12:20 | Client | 04/14/16 10:00 |
| 3430808 | Well#14 | 537 | 04/13/16 09:40 | Client | 04/14/16 10:00 |
| 3430810 | Well#15 | 537 | 04/13/16 10:55 | Client | 04/14/16 10:00 |
| 3430812 | Well#16 | The state of the s | 04/13/16 11:45 | Client | 04/14/16 10:00 |
| 3430814 | Well#17 | 537 | 04/13/16 13:50 | Client | 04/14/16 10:00 |
| 3430816 | Well#2 | 537 | The state of the s | Client | 04/14/16 10:00 |
| 3430817 | Well#2 Field Blank | 537 | 04/13/16 13:50 | The state of the s | 04/14/16 10:00 |
| 3430818 | Well#3 | 537 | 04/13/16 13:45 | Client | 04/14/16 10:00 |
| 3430819 | Well#3 Field Blank | 537 | 04/13/16 13:45 | Client | The state of the s |
| Cur to Turner to Transce of the second | Well#9 | 537 | 04/13/16 14:20 | Client | 04/14/16 10:00 |
| 3430820 3430822 | Well#10 | 537 | 04/13/16 14:30 | Client | 04/14/16 10:00 |

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for

analysis. We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Kelly Trott at (574) 233-4777.

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05/03/2016

Date

Authorized Signature

Converse Laboratories

Client Name: Report #:

361128

Page 1 of 6

Client Name:

Converse Laboratories

Report #: 361128

Sampling Point:

Well#18

PWS ID: Not Supplied

| EEA Methods | | | | | | | | | | | |
|----------------|--------------------------------------|--------|-----------------|------|--------|-------|---------------------|------------------|------------|--|--|
| Analyte ID# | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# | | |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | - | 9.0 | < 9.0 | ng/L | 04/26/16 08:28 | 04/26/16 22:19 | 3430806 | | |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | | 1.0 | < 1.0 | ng/L | 04/26/16 08:28 | 04/26/16 22:19 | 3430806 | | |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | west mov/Wesse. | 3.0 | < 3,0 | ng/L | 04/26/16 08:28 | 04/26/16 22:19 | 3430806 | | |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | - | 2.0 | < 2.0 | ng/L | 04/26/16 08:28 | 04/26/16 22:19 | 3430806 | | |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 4.0 | < 4.0 | ng/L | 04/26/16 08:28 | 04/26/16 22:19 | 3430806 | | |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | and the second | 2.0 | < 2.0 | ng/L | 04/26/16 08:28 | 04/26/16 22:19 | 3430806 | | |

Sampling Point:

Well#14

PWS ID: Not Supplied

| | | | EEA Met | hods | | | | | |
|----------------|--------------------------------------|--------|--------------------------|------|--------|-------|---------------------|------------------|------------|
| Analyte ID# | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | - E | 9.0 | < 9.0 | ng/L | 04/26/16 08:28 | 04/26/16 22:50 | 3430808 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | - | 1.0 | < 1.0 | ng/L | 04/26/16 08:28 | 04/26/16 22:50 | 3430808 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | STATE OF THE PROPERTY OF | 3.0 | < 3.0 | ng/L | 04/26/16 08:28 | 04/26/16 22:50 | 3430808 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | - SAN (1995) (1) | 2.0 | < 2.0 | ng/L | 04/26/16 08:28 | 04/26/16 22:50 | 3430808 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 4.0 | < 4.0 | ng/L | 04/26/16 08:28 | 04/26/16 22:50 | 3430808 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | 100 1310hr = 1002 Sq | 2.0 | < 2.0 | ng/L | 04/26/16 08:28 | 04/26/16 22:50 | 3430808 |

Sampling Point: Well#15

PWS ID: Not Supplied

| | EEA Methods | | | | | | | | | | | |
|----------------|--------------------------------------|--------|---|------|--------|-------|---------------------|------------------|------------|--|--|--|
| Analyte ID# | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# | | | |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | - | 9.0 | < 9.0 | ng/L | 04/26/16 08:28 | 04/26/16 23:52 | 3430810 | | | |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | | 1.0 | < 1.0 | ng/L | 04/26/16 08:28 | 04/26/16 23:52 | 3430810 | | | |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | - All Controller All | 3.0 | < 3.0 | ng/L | 04/26/16 08:28 | 04/26/16 23:52 | 3430810 | | | |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | HORPITATE CO | 2.0 | < 2.0 | ng/L | 04/26/16 08:28 | 04/26/16 23:52 | 3430810 | | | |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | Carlo Date of Activities (1) | 4.0 | < 4.0 | ng/L | 04/26/16 08:28 | 04/26/16 23:52 | 3430810 | | | |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | | 2.0 | < 2.0 | ng/L | 04/26/16 08:28 | 04/26/16 23:52 | 3430810 | | | |

Client Name:

Converse Laboratories

Report #: 361128

Sampling Point:

Well#16

PWS ID: Not Supplied

| EEA Methods | | | | | | | | | | | | |
|----------------|--------------------------------------|--------|------------------|------|--------|-------|---------------------|------------------|------------|--|--|--|
| Analyte ID# | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# | | | |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | - | 9.0 | < 9.0 | ng/L | 04/26/16 08:28 | 04/27/16 00:22 | 3430812 | | | |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | | 1.0 | < 1.0 | ng/L | 04/26/16 08:28 | 04/27/16 00:22 | 3430812 | | | |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | - | 3,0 | < 3,0 | ng/L | 04/26/16 08:28 | 04/27/16 00:22 | 3430812 | | | |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | API | 2,0 | < 2.0 | ng/L | 04/26/16 08:28 | 04/27/16 00:22 | 3430812 | | | |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | - | 4.0 | < 4.0 | ng/L | 04/26/16 08:28 | 04/27/16 00:22 | 3430812 | | | |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | ==thcm:ntds=oq.= | 2.0 | < 2.0 | ng/L | 04/26/16 08:28 | 04/27/16 00:22 | 3430812 | | | |

Sampling Point:

Well#17

PWS ID: Not Supplied

| | EEA Methods | | | | | | | | | | | | |
|----------------|--------------------------------------|--------|--|------|--------|-------|---------------------|------------------|------------|--|--|--|--|
| Analyte ID# | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# | | | | |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | _ | 9.0 | < 9.0 | ng/L | 04/26/16 08:28 | 04/27/16 00:53 | 3430814 | | | | |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | - | 1.0 | < 1.0 | ng/L | 04/26/16 08:28 | 04/27/16 00:53 | 3430814 | | | | |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | | 3.0 | < 3.0 | ng/L | 04/26/16 08:28 | 04/27/16 00:53 | 3430814 | | | | |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | - | 2.0 | < 2.0 | ng/L | 04/26/16 08:28 | 04/27/16 00:53 | 3430814 | | | | |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | - | 4.0 | < 4.0 | ng/L | 04/26/16 08:28 | 04/27/16 00:53 | 3430814 | | | | |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | - The State of the | 2.0 | < 2.0 | ng/L | 04/26/16 08:28 | 04/27/16 00:53 | 3430814 | | | | |

Sampling Point:

Well#2

PWS ID: Not Supplied

| | EEA Methods | | | | | | | | | | | |
|----------------|--------------------------------------|--------|----------------|------|--------|-------|---------------------|------------------|------------|--|--|--|
| Analyte ID# | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# | | | |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | 152 | 9.0 | < 9.0 | ng/L | 04/26/16 08:28 | 04/27/16 01:24 | 3430816 | | | |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | MENTAL SECTION | 1.0 | 14 | ng/L | 04/26/16 08:28 | 04/27/16 01:24 | 3430816 | | | |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | - | 3.0 | 19 | ng/L | 04/26/16 08:28 | 04/27/16 01:24 | 3430816 | | | |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | | 2.0 | < 2.0 | ng/L | 04/26/16 08:28 | 04/27/16 01:24 | 3430816 | | | |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 4.0 | < 4.0 | ng/L | 04/26/16 08:28 | 04/27/16 01:24 | 3430816 | | | |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | | 2.0 | 2.4 | ng/L | 04/26/16 08:28 | 04/27/16 01:24 | 3430816 | | | |

Client Name: Converse Laboratories

Report #: 361128

Sampling Point: Well#2 Field Blank

PWS ID: Not Supplied

| | | | EEA Met | hods | | | | | |
|-----------|---|-------------------------------|-----------------------------|-----------------------|--------|-------------|---------------------|-------------------------------------|----------------|
| Analyte | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| ID# | | 507 | | 9.0 | < 9.0 | ng/L | 04/26/16 08:28 | 04/27/16 08:04 | 3430817 |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | to Control (September 1988) | CONTRACTOR CONTRACTOR | < 1.0 | ng/L | 04/26/16 08:28 | 04/27/16 08:04 | 3430817 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | - | 1.0 | | FACED STATE | 04/26/16 08:28 | 04/27/16 08:04 | 3430817 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | - | 3.0 | < 3.0 | ng/L | | ACCOUNTS OF THE PARTY OF THE PARTY. | 3430817 |
| See See | A THE TAX A STATE OF THE STATE | 537 | - | 2.0 | < 2.0 | ng/L | 04/26/16 08:28 | 04/27/16 08:04 | S - 1000 - 100 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | properties of the property of | 100 | 4.0 | < 4.0 | ng/L | 04/26/16 08:28 | 04/27/16 08:04 | 343081 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | VIII. | 0.00 | W 1007 | 04/26/16 08:28 | 04/27/16 08:04 | 343081 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | _ | 2.0 | < 2.0 | ng/L | 04/20/10 00:20 | | 91 |

Sampling Point: Well#3

PWS ID: Not Supplied

| | | | EEA Met | hods | | | | | |
|------------------------|--|--|----------------|--|------------------|----------------------|---|--|------------|
| Analyte | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| ID# | | | Linix | 9.0 | < 9.0 | ng/L | 04/26/16 08:28 | 04/27/16 01:55 | 3430818 |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | 2011-000 | 1 1000 1000 1000 1000 1000 1000 1000 1 | C NORTH CONTRACT | Access to the second | 04/26/16 08:28 | 04/27/16 01:55 | 3430818 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | - | 1.0 | 7.3 | ng/L | | 04/27/16 01:55 | 3430818 |
| TOTAL TIME DESIGNATION | Perfluorohexanesulfonic acid (PFHxS) | 537 | _ | 3.0 | 7.4 | ng/L | 04/26/16 08:28 | 04/2//16 01.55 | |
| 355-46-4 | CONTROL OF THE CONTRO | Annual Company of the | - ATVC | 2.0 | < 2.0 | ng/L | 04/26/16 08:28 | 04/27/16 01:55 | 3430818 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | | -units some | | - CARLES - SECTION | 04/26/16 08:28 | 04/27/16 01:55 | 3430818 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | - | 4.0 | < 4.0 | ng/L | 100 a 100 min | the state of the s | 3430818 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | _ | 2.0 | < 2.0 | ng/L | 04/26/16 08:28 | 04/27/16 01:55 | 3430010 |

Sampling Point: We

Well#3 Field Blank

PWS ID: Not Supplied

| | | | EEA Met | nods | | | | | |
|--------------------|--|---------------------------------|--|-----------------|-------------------------|---------------------|-----------------------|--|----------------------|
| Analyte | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| ID# | 11 0 0 1 10 10 10 10 10 10 10 10 10 10 1 | 507 | A | 9.0 | < 9.0 | ng/L | 04/26/16 08:28 | 04/27/16 08:34 | 3430819 |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | The state of the same | Seriore Strange | < 1.0 | ng/L | 04/26/16 08:28 | 04/27/16 08:34 | 3430819 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | Asset Ment (2004) | 1.0 | personative puntations: | 100mm - 2000 mg (1) | 04/26/16 08:28 | 04/27/16 08:34 | 3430819 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | - Company of the Comp | 3.0 | < 3.0 | ng/L | HOTELSTEE DOOR OF THE | COMPACT PROPERTY OF THE PARTY O | 3430819 |
| ANTENERAL PROPERTY | A CHARLES THE STREET OF THE PARTY OF THE PAR | 537 | - | 2.0 | < 2.0 | ng/L | 04/26/16 08:28 | 04/27/16 08:34 | Z WAND CARE |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | Take Time Time | 4.0 | < 4.0 | ng/L | 04/26/16 08:28 | 04/27/16 08:34 | 3430819 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | College Tax College to San Park | - Spin Stinon | 1000 | CONTRACTOR OF | ng/L | 04/26/16 08:28 | 04/27/16 08:34 | 3430819 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | - | 2.0 | < 2.0 | ng/L | 04/20/10 00:20 | II. The same property | distance of the last |

Client Name:

Converse Laboratories

Report #: 361128

Sampling Point:

Well#9

PWS ID: Not Supplied

| 200 | No. of the second second | | EEA Met | hods | | | | | |
|----------------|--------------------------------------|--------|--|------|--------|-------|---------------------|------------------|------------|
| Analyte ID# | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | - | 9.0 | < 9,0 | ng/L | 04/26/16 08:28 | 04/27/16 02:25 | 3430820 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | Transfer of the Control of the Contr | 1.0 | < 1.0 | ng/L | 04/26/16 08:28 | 04/27/16 02:25 | 3430820 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | | 3.0 | < 3.0 | ng/L | 04/26/16 08:28 | 04/27/16 02:25 | 3430820 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | — (pas/ | 2.0 | < 2.0 | ng/L | 04/26/16 08:28 | 04/27/16 02:25 | 3430820 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | - | 4.0 | < 4.0 | ng/L | 04/26/16 08:28 | 04/27/16 02:25 | 3430820 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | - | 2.0 | < 2.0 | ng/L | 04/26/16 08:28 | 04/27/16 02:25 | 3430820 |

Sampling Point:

Well#10

PWS ID: Not Supplied

| | | | EEA Met | hods | | | | | |
|----------------|--------------------------------------|--------|---------------------------------|------|--------|-------|---------------------|------------------|------------|
| Analyte ID# | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | - | 9.0 | < 9.0 | ng/L | 04/26/16 08:28 | 04/27/16 03:27 | 3430822 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | - | 1.0 | < 1.0 | ng/L | 04/26/16 08:28 | 04/27/16 03:27 | 3430822 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | No. 1/Control of the control of | 3.0 | < 3.0 | ng/L | 04/26/16 08:28 | 04/27/16 03:27 | 3430822 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | | 2.0 | < 2.0 | ng/L | 04/26/16 08:28 | 04/27/16 03:27 | 3430822 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | - | 4.0 | < 4.0 | ng/L | 04/26/16 08:28 | 04/27/16 03:27 | 3430822 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | - | 2.0 | < 2.0 | ng/L | 04/26/16 08:28 | 04/27/16 03:27 | 3430822 |

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

| Reg Limit Type: | MCL | SMCL | AL |
|-----------------|-----|------|--|
| Symbol: | * | A | The state of the s |

Client Name:

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample al6iquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.



110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207 1 800 332 4345

Laboratory Report

Client:

Converse Laboratories

Report:

361128

Final

Attn:

Donna Zang

Priority:

Standard Written

800 Starbuck Ave, Suite B101

Status: PWS ID:

Not Supplied

Watertown, NY 13601

| EEA ID# | Client ID | Method | Collected Date / Time | Collected By: | Received Date / Time |
|------------|---------------------|--------|--------------------------|------------------|-------------------------|
| 3430807 | Well#18 Field Blank | 537 | 04/12/16 11:50 | Client | 04/14/16 10:00 |
| 3430809 | Well#14 Field Blank | 537 | 04/12/16 12:20 | Client | 04/14/16 10:00 |
| 3430811 | Well#15 Field Blank | 537 | 04/13/16 09:40 | Client | 04/14/16 10:00 |
| 3430813 | Well#16 Field Blank | 537 | 04/13/16 10:55 | Client | 04/14/16 10:00 |
| 3430815 | Well#17 Field Blank | 537 | 04/13/16 11:45 | Client | 04/14/16 10:00 |
| 3430821 | Well#9 Field Blank | 537 | 04/13/16 14:20 | Client | 04/14/16 10:00 |
| 3430823 | Well#10 Field Blank | 537 | 04/13/16 14:30 | Client | 04/14/16 10:00 |

Analysis was cancelled at the request of the client.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Kelly Trott at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Kelly Skott Analytical Senters Hurager

05/03/2016

Date

| 110 S. Hill Street South Bend, IN 46617 Order # | T: 1.800.332.4345 | |
|--|-------------------|----------------|
| | А | cal |
| rofine | | Eaton Analytic |

| Eaton Analytical CHAIN OF CUSTODY RECORD Manual are for ELA use only Mill of the Country of th | 01128 | 4 | | | S | CODE CODE |)F СС | O# C | 2000 | 0 000 | 2 FB | 1 2 NJ | 7 2 55 | (X) 2 | - B | n Se | | - | | な | 2 EB | ES TO CLIENT | | 100 | , | | | NA | | kess 1 may | | e Date: 2014-05-01 sly agree to in writing by |
|--|--------------------------------|-----------|--------------------------|-----------------|----------|----------------|-----------|---------------|---------|---------|---------|----------|----------|----------|----------|----------|----------|--------|-------|--------|--------|--|------------------|----------|--------------|-------------|------------------------|-----------------|----------------------------|---|------------------------------|--|
| Eaton Analytical CHAIN OF CUSTODY RECORD Standed one for Ea, use only Standed one for Ea, use one for each one for Ea, use one for Ea, use one for Ea, use one for each one for Ea, use one for | Batch # 3 | Page | - | | um 8A16. | 0414 | | YES | 3 | 2 2 | 7 | , | | , | | 9 | -77 | 1 | 1 | , | _ | IS OF NON-AQUEOUS SAMPL | | | | | | °C Upon Receipt | | ceivad unannounced with urs holding time remaining | to additional charges. | 135 Issue 4,0 Effective |
| EATON ANALYSIS EATON ANALYSIS ESTATEMENT OF CUSTODY RECORD STATE UNITY OF CUSTODY RECORD STATE UNITY OF CUSTODY RECORD STATE UNITY OF CONCENTRATE OF CONCENT | .800.332.4345 .574.233.8207 | | - | - | | 1 | SAMPLERE | 1 | (1) | | | | | | | | | | | | | NOTTHON INVISED PORTION | | | | | 8.0 (auo) | Ambient | | Samples re than 48 hot | he subject | 08-LO-F04 |
| STATE OF SQUARMS SAMPLING STEE SAMPLING STEE COMPLIANCE SAMPLING STEE COMPLIANCE SAMPLING STEE COMPLIANCE NONTORING SAMPLING STEE COMPLIANCE COMPLIANCE | F: T. T. | 0000 | CORD | STATE (sam) | | | TOT MANGE | | 53 | | | | | | | | | | | | / | CT THE CASE OF THE | IENTS | | | | IS UPON RECEIPT (check | iced WetBlue | 100% | 125% | CALL | |
| Studed area for EEA use only StudeLER (Signature) TTO: Shaded area for EEA use only StudeLER (Signature) TTO: Shaded area for EEA use only StudeLER (Signature) TTO: Shaded area for EEA use only StudeLER (Signature) TTO: Shaded area for EEA use only StudeLER (Signature) TTO: Shaded area for EEA use only StudeLER (Signature) TTO: Shaded area for EEA use only StudeLER (Signature) TTO: Shaded area for EEA use only StudeLER (Signature) TTO: Shaded area for EEA use only StudeLER (Signature) TTO: Shaded area for EEA use only StudeLER (Signature) Shade the StudeLER (Signature) TTO: Shaded area for EEA use only StudeLER (Signature) Shade the StudeLER (Signature) TTO: Shaded area for EEA use only StudeLER (Signature) Shade the StudeLER (Signature) DATE THAN RECEIVED FOR LABORATORY BY: Shaded area for Stude (Signature) DATE THAN RECEIVED FOR LABORATORY BY: Shaded area for StudeLER (Signature) DATE THAN SHADED THE (TA) SURCHARGES WY - EMAN WARRES WY - EMAN WARRES SHADED BY: Signature) DATE THAN RECEIVED FOR LABORATORY BY: SHADED BY | | 200 | USTODY RE | PWS ID # | | POPULATION SER | • | | pa | , | | | | | | | | | | | 7 | | LAB COMN | | TIME | AM PM | - | AM PM | n Verbal: (3 working days) | te Written: (3 working days) | id, Holiday than 48 hours | |
| Shaded area for EEA use only Shaded area for EEA use only Shaded area for EEA use only TTO: Shaded area for EEA use only SAMPLER (Signature) NOVE TO COLLECTION SAMPLING SITE MONITORING SAMPLING SAMPLING SITE MONITORING SAMPLING | | | CHAIN OF | | 6 | No | | | | _ | 11 - 11 | Carlo | 410 | DIME | 11 10 16 |) KANAC | 1 | BICHIC | Mento | Simil | ink | 11 | Ulal | SIKIN OM | // DATE | 2 | DATE | 414 | Elemeda | IW* =immedia | SP* = Weeker | |
| Shaded area for EEA use only Shaded area for Each Eigen Shaded area for EEA use only Shaded area for EA use only Shaded area for EEA use only Shaded ar | 5 | IIcai | | ature) | Covee | | | SAMPLING SITE | ά | FIMI | 7 | 4 Hick B | 12 | M: | 1 | o Dela 1 | 1 | 1 | 1.0 | 2 nela | Lion L | | (Signature) | o Willen | :(Signature) | | LABORATORY BY: | 5 | CHARGES | | 2 | allable for all testing |
| Shaded area for EEA use only TTO: Shaded area for EEA use only Shaded area for EEA use only Shaded area for EEA use only TTO: Shaded area for EEA use only TTO: Shaded area for EEA use only THO: Shaded area for EEA use The Thin THO: Shaded area for EEA use Thin Thin Thin Thin Thin Thin Thin Thin | No of the second | II Alldly | | SAMPLER (Sign | Silve | COMPLIANC | | | F 11911 | 1 | - 1 | # | 1 | 11/211 # | - | | 13/6/1 # | | - | 14. | 1, | Week | RECEIVED | | | 5 | ME RECEIVED FOR | 72 | TIME (TAT) - SURC | | • | edited service not av |
| Shaded area for EEA use Shaded area for EEA use TTO: Shaded area for EEA use TO: Sh | | Lato | | only , | Ų | K AVE | 400 | 1 | 7 | 100 | 91 | 0250 | CG35 V | 03.50 | 10251 | 三次, 1 | 1145 1 | 1145/ | 350 | 1350 | 1345 | | | - | | 14/13/16 15 | DATE TIN | 4 | TURN-AROUND | SW = Standard Writter RV* = Rush Verbal: (5 v | RW* = Rush Written (5 | * Please call, exp |
| Shaded a Sha | OTITIS | | | rea for EEA use | SIMI | Se bac | 2/2 | | DAIE | 11/1/10 | | > | 14/13/12 | + | 7 | 3 | * | 2 | | 7 | 200 | * | gnature) | 0 | gnature) | 11/11/11 | gnature) | 0 | ODES: | 3 WATER | NWATER RE WATER | WATER |
| RELIN | D (0) | | www.eurofinsus.com/eaton | | 701101 | BILL TO: 500 A | ON NO | LAB Number | 100000 | 120000 | 808 | 608 | 018 | 110 | 6/8 | 18 | 7/8 | 1/8 | 7/8 | 118 | 8/8 | 2/8 | NOUISHED BY:(Sig | - | HED BY: | 10 | NOUISHED BY:(Si | | MATRIX C | DW-DRINKING RW-REAGEN | GW-GROUND EW-EXPOSUR | WW-WASTE |

Sample analysis will be provided according to the standard EEA/W EEA

| | , | | ЭM | IIT QNUOF | IANRUT | | | | | | | |
|--|--------------------------|-----------------------|--------------------|-----------------------|-----------------------|--------------|---------------|---------------|-----------------|---|---|---|
| 2 | 4 | | | CODE | XIATAM | BE | B | 3 | 73 | | | |
| 1/1/ | , p | | S | ЯЗИІАТИС | # OE CC | d | 4 | d | C | CLIENT | N'A | |
| Order # 374/50 Batch # | Page 7 | #Od | EA16- | 0474 | CHLORINATED YES NO | _ | 1 | (| 1 | 2UEOUS SAMPLES TO | peceipt | nounced with less me remaining may charges. |
| | | PROJECT NAME | 4.0.8 | T. 010. | SAMPLE REMARKS | 1= H | | 1 | 1 | SED PORTIONS OF NON-AC | S C Upon Receipt | Samples received unannounced with less than 48 hours holding line remaining may be subject to additional charges. |
| 110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207 | SD | STATE (sample origin) | 77 | DW/GW | NE (| 537 | | | \ | LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT | CEIPT (check one): Blue Ambient | |
| | CHAIN OF CUSTODY RECORD | # OI SMd | DOBILIATION SEBVED | TOPOLATION SERVED | TEST NAME | PFC13 h, PPA | | | 4 | LAB COMM | TIME CONDITIONS UPON RECEIPT (check one): | IV* = Immediate Verbal: (3 working days) 100% IW* =Immediate Written: (3 working days) 125% SP* = Weekend, Holiday CALL |
| ytical | CHAIN OF C | ature) | | Yes | SAMPLING SITE | 6 | i Field Blank | | Field Blank | May Hispu | ORY BY: DATE | |
| Eaton Analy | | SAMPLER (Signature) | Have | COMPLIANCE MONITORING | ECTION 0 | 11/01/4 | 420 - ME11 #9 | 430 - Wed #10 | 30 1 11/011 #10 | DATE TIME RECEIVED BY:(Signature) | DATE TIME RECEIVED FOR LABORATORY BY AM PM | TURN-AROUND TIME (TAT) - SURCHARGES SW = Standard Written: (15 working days) 0% RV = Rush Verbal: (5 working days) 50% RW* = Rush Written: (5 working days) 75% |
| eurofins | www.eurofinsus.com/eaton | REPORT TO: | nverse Bilah | NULLY LAB-Wath HIG | LAB Number COLLECTION | -0 | 831 | 71 623 | 833 | 10 11 11 11 11 11 11 11 | | MATRIX CODES: TURN DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SINFACE WATER |

PW-POOL WATER

* Please call, expedited service not available for all testing

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agree to in writing by EEA.



Eurofins Eaton Analytical

Run Log

| 537 | |
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| Method: | |
| 215025 | |
| Run ID: | |
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| Analysis Date Calibration File | 24/26/2016 20:16 042616M537a.mdb | 04/26/2016 21:18 042616M537a.mdb | 04/26/2016 21:49 042616M537a.mdb | | 04/26/2016 22:50 042616M537a.mdb | | 04/26/2016 23:52 042616M537a.mdb | 04/27/2016 00:22 042616M537a.mdb | | 04/27/2016 01:24 042616M537a.mdb | 04/27/2016 01:55 042616M537a.mdb | 04/27/2016 02:25 042616M537a.mdb | | 04/27/2016 03:27 042616M537a.mdb | 04/27/2016 04;28 042616M537a.mdb | 04/27/2016 08:04 042616M537a.mdb | 04/27/2016 08:34 042616M537a.mdb | 04/27/2016 10:07 042616M537a.mdb |
|--------------------------------|----------------------------------|----------------------------------|----------------------------------|---------|----------------------------------|-----------|----------------------------------|----------------------------------|---------|----------------------------------|----------------------------------|----------------------------------|-----------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Instrument ID Ana | CY 04/26 | | CY 04/26 | | CY 04/26/ | CY 04/26/ | CY 04/26/ | CY 04/27/ | | CY 04/27/ | CY 04/27/ | CY 04/27/ | CY 04/27/ | CY 04/27/ | CY 04/27/ | CY 04/27/ | CY 04/27/ | |
| Matrix | SO | RW | RW | MQ | DW | MO | MO | DW | DW | DW | DW | MO | DW | DW | SO | RW | RW | SO |
| Sample Site | | | | Well#18 | Well#14 | Well#14 | Well#15 | Well#16 | Well#17 | Well#2 | Well#3 | Well#9 | Well#9 | Well#10 | | Well#2 Field Blank | Well#3 Field Blank | |
| Sample Id | 3436371 | 3436365 | 3436366 | 3430806 | 3430808 | 3436363 | 3430810 | 3430812 | 3430814 | 3430816 | 3430818 | 3430820 | 3436364 | 3430822 | 3436372 | 3430817 | 3430819 | 3436373 |
| Type | CCL | LRB | FBL | FS | FS | LFSML | FS | FS | FS | FS | FS | FS | FD | FS | CCM | FTB | FTB | ССН |

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| Sample Type | Analyte | Method | MRL | Client ID | Result | ult Amount g | Target | t Units | % Recovery | Recovery ary Limits | _ | RPD RPD | D Dil | Extracted | Analyzed | EEA ID# |
|----------------|--------------------------------------|--------|-----|-----------|--|--|---------|----------|---------------|------------------------|-------|-----------|-------|------------------|------------------|------------|
| CCL | IS-PFOA-13C2 | 537 | A/N | 1 | | 9690.47 | 9690.47 | 7 ng/L | 100 | 50 - 150 | 150 | 1 | 1.0 | 04/25/2016 10:34 | 04/26/2016 20:16 | 343637 |
| CC | IS-PFOS-13C4 | 537 | N/A | ı | | 7789.49 | 7789.49 | 9 ng/L | 9 | 50 - 150 | 150 | 1 | 1.0 | 04/25/2016 10:34 | 04/26/2016 20:16 | 343637 |
| CCL | SS-PFDA-13C2 | 537 | N/A | ı | NV | 104.4570 | 100 | ng/L | 104 | 70 - 130 | 130 | 1 | 1.0 | 04/25/2016 10:34 | 04/26/2016 20:16 | 3436371 |
| CCL | SS-PFHxA-13C2 | 537 | N/A | ı | basenos. | 51.4471 | 50.0 | ng/L | 103 | 70 - 130 | | 1 | 1.0 | 04/25/2016 10:34 | 04/26/2016 20:16 | 3436371 |
| J S | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | I | -41G-1 | 8.8737 | 9.0 | ng/L | 8 | 50 - 150 | 150 | I | 1.0 | 04/25/2016 10:34 | 04/26/2016 20:16 | 3436371 |
| CCL | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | ı | 30000000 | 0.9362 | 1.0 | J/gu | 94 | 50 - 150 | 150 | | 1.0 | 04/25/2016 10:34 | 04/26/2016 20:16 | 3436371 |
| 700 | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | 1 | 7.75 | 2.6365 | 3.0 | ng/L | 88 | 50 - 150 | 150 | 1 | 1.0 | 04/25/2016 10:34 | 04/26/2016 20:16 | 3436371 |
| CCL | Perfluorononanoic acid (PFNA) | 537 | 2.0 | ı | S. S | 1.9272 | 2.0 | ng/L | 96 | 50 - 150 | 150 | 1 | 1,0 | 04/25/2016 10:34 | 04/26/2016 20:16 | 3436371 |
| COL | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | - | 20 Miles | 3.7878 | 4.0 | ng/L | 96 | 50 - 150 | 150 | i mean | 1.0 | 04/25/2016 10:34 | 04/26/2016 20:16 | 3436371 |
| CC | Perfluorooctanoic acid (PFOA) | 537 | 5.0 | - | ** 73 E cm | 1,8546 | 2.0 | J/Bu | 83 | 50 - 150 | 150 | 227342 | 1.0 | 04/25/2016 10:34 | 04/26/2016 20:16 | 3436371 |
| LRB | IS-PFOA-13C2 | 537 | N/A | I | | 10271.10 | 9690.47 | 7 ng/L | 106 | 50 - 150 | 150 | 1 | 0.96 | 04/26/2016 08:28 | 04/26/2016 21:18 | 3436365 |
| LRB | IS-PFOS-13C4 | 537 | N/A | 1 | | 7931.83 | 7789.49 | 9 ng/L | 102 | 50 - 150 | 150 | 1 | 0.96 | 04/26/2016 08:28 | 04/26/2016 21:18 | 3436365 |
| LRB | SS-PFDA-13C2 | 537 | N/A | 1 | | 91.2663 | 100 | ng/L | 98 | 70 - 130 | 130 | 1 | 0.96 | 04/26/2016 08:28 | 04/26/2016 21:18 | 3436365 |
| LRB | SS-PFHxA-13C2 | 537 | NA | ı | | 46.0052 | 50.0 | ng/L | 98 | 70 - 130 | 130 | 1 | 0.96 | 04/26/2016 08:28 | 04/26/2016 21:18 | 3436365 |
| LRB | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | 1 | ٧ | 9.0 | | ng/L | 1 | 1 | | 1 | 0.96 | 04/26/2016 08:28 | 04/26/2016 21:18 | 3436365 |
| LRB | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | 1 | ٧ | 1.0 | | J/Bu lay | 1 | 1 | | 1 | 0.96 | 04/26/2016 08:28 | 04/26/2016 21:18 | 3436365 |
| LRB | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | ı | ٧ | 3.0 | | ng/L | 1 | | | 1 | 0.96 | 04/26/2016 08:28 | 04/26/2016 21:18 | 3436365 |
| LRB | Perfluorononanoic acid (PFNA) | 537 | 2.0 | ı | v | 2.0 | | ng/L | I | L | | 1 | 0.96 | 04/26/2016 08:28 | 04/26/2016 21:18 | 3436365 |
| LRB | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | ı | ٧ | 4.0 | | ng/L | I | 1 | | 1 | 0.96 | 04/26/2016 08:28 | 04/26/2016 21:18 | 3436365 |
| LRB | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | I | v | 2.0 | | ng/L | 1 | 1 | | 1 | 0.96 | 04/26/2016 08:28 | 04/26/2016 21:18 | 3436365 |
| 臣 | IS-PFOA-13C2 | 237 | A/N | I | | 10474.20 | 9690.47 | 7 ng/L | 108 | 50 - 150 | 150 | 1 | 1.0 | 04/26/2016 08:28 | 04/26/2016 21:49 | 3436366 |
| FBL | IS-PFOS-13C4 | 537 | N/A | 1 | | 8102.78 | 7789.49 | 9 ng/L | 104 | 50 - 150 | 150 | 1 | 0.1 | 04/26/2016 08:28 | 04/26/2016 21:49 | 3436366 |
| 7BL | SS-PFDA-13C2 | 537 | N/A | ı | | 98.9412 | 100 | ng/L | 66 | 70 - 130 | 130 | 1 | 1.0 | 04/26/2016 08:28 | 04/26/2016 21:49 | 3436366 |
| FBL | SS-PFHXA-13C2 | 537 | N/A | 1 | | 49.2034 | 20.0 | ng/L | 86 | 70 - 130 | 130 | - | 0.1 | 04/26/2016 08:28 | 04/26/2016 21:49 | 3436366 |
| FBL | Perfluorobutanesulfonic acid (PFBS) | 537 | 0.6 | - | and did | 8.5085 | 0.6 | ng/L | 66 | 50 - 150 | 150 | 1 | 1.0 | 04/26/2016 08:28 | 04/26/2016 21:49 | 3436366 |
| 品 | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | ł | | 0.9192 | 1.0 | ng/L | 8 | 50 - 150 | 150 | 1 | 1.0 | 04/26/2016 08:28 | 04/26/2016 21:49 | 3436366 |
| FBL | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | l | | 2.5362 | 3.0 | ng/L | 88 | 50 - 150 | 150 | 1 | 1.0 | 04/26/2016 08:28 | 04/26/2016 21:49 | 3436366 |
| FBL | Perfluorononanoic acid (PFNA) | 537 | 2.0 | ı | 200 to 1 | 1.8380 | 2.0 | ng/L | 93 | 50 - 150 | 150 | onene. | 0.1 | 04/26/2016 08:28 | 04/26/2016 21:49 | 3436366 |
| FBL | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | ı | 2 | 3.5634 | 4.0 | ng/L | 68 | 50 - 150 | 150 | 1 | 1.0 | 04/26/2016 08:28 | 04/26/2016 21:49 | 3436366 |
| FBL | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | l | - meson | 1.9395 | 2.0 | ng/L | 26 | 50 - 150 | 150 | 1 | 1.0 | 04/26/2016 08:28 | 04/26/2016 21:49 | 3436366 |
| FS | IS-PFOA-13C2 | 537 | NA | Well#18 | | 10495.00 | 9690.47 | 7 ng/L | 108 | 50 - 150 | 150 | 1 | 6.0 | 04/26/2016 08:28 | 04/26/2016 22:19 | 3430806 |
| FS | IS-PFOS-13C4 | 537 | N/A | Well#18 | | 8026.51 | 7789.49 | 9 ng/L | 103 | 50 - 150 | 150 - | 1 | 6.0 | 04/26/2016 08:28 | 04/26/2016 22:19 | 3430806 |
| S. | SS-PFDA-13C2 | 537 | N/A | Well#18 | | 85.3808 | 100 | J/gn | 98 | 70 - 130 | 130 | 1 | 6.0 | 04/26/2016 08:28 | 04/26/2016 22:19 | 3430806 |
| E. | SS-PFHXA-13C2 | 537 | N/A | Well#18 | | 43.6448 | 20.0 | ng/L | 26 | 70-130 | 130 | 1 | 6.0 | 04/26/2016 08:28 | 04/26/2016 22:19 | 3430806 |
| FS | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | Well#18 | ٧ | 9.0 | | ng/L | 1 | 1 | | 1 | 6.0 | 04/26/2016 08:28 | 04/26/2016 22:19 | 3430806 |
| FS | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | Well#18 | ٧ | 1.0 | | ng/L | 1 | 1 | | 1 | 0.9 | 04/26/2016 08:28 | 04/26/2016 22:19 | 3430806 |
| (o | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | Well#18 | ٧ | 3.0 | | ng/L | 1 | -1 | | 1 | 0.9 | 04/26/2016 08:28 | 04/26/2016 22:19 | 3430806 |
| ي age | Perfluorononanoic acid (PFNA) | 537 | 2.0 | Well#18 | ٧ | 2.0 | | ng/L | I | 1 | | 1 | 0.9 | 04/26/2016 08:28 | 04/26/2016 22:19 | |
| S | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | Well#18 | ٧ | 4.0 | | ng/L | 1 | 1 | | 1 | 0.9 | 04/26/2016 08:28 | 04/26/2016 22:19 | 3430806 |
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| Sample Type FS FS | | | | | | | Tanana T | linite | % | Recovery | מאנו | | | - Constant | | # |
|----------------------------|---|--------|------------|--|--|----------|--|---------|----------|----------|--|--------|---------|-------------------|---|------------|
| D | Analyte | Method | MRL | Client ID | Result | Amount | a ge | | Recovery | Limits | | Limit | Factor | # | | 0000070 |
| | | | | The control of the co | 651 | 00 0000 | 77 0800 | na/L | 106 | 50 - 150 | 1 | 1 | 0.89 04 | - | 04/26/2016 22:50 | 3430000 |
| | 10 DEON 13C2 | 537 | N/A | Well#14 | Service of the servic | 10268.80 | 9000 | i - | .07 | 50 - 150 | I | 1 | 0.89 04 | 04/26/2016 08:28 | 04/26/2016 22:50 | 3430808 |
| | 4001-ROTH-81 | 537 | N/A | Well#14 | DAN TO | 7989.61 | 7789.49 | ng/L | 3 8 | 70 130 | | 1 | 0.89 | 04/26/2016 08:28 | 04/26/2016 22:50 | 3430808 |
| | IS-PFOS-13C4 | LC B | N/A | Well#14 | 200 | 85,4229 | 100 | ng/L | 95 | 001-07 | A Charles of the Con- | | L | 04/26/2016 08:28 | 04/26/2016 22:50 | 3430808 |
| - | SS-PFDA-13C2 | 23/ | VIII. | W/ell#14 | 287% | 43.7267 | 50.0 | ng/L | 88 | 70 - 130 | 1 | 1 | | 041067016 08-28 | 04/26/2016 22:50 | 3430808 |
| FS | SS-PFHxA-13C2 | 537 | N/A | T I I I I I I I I I I I I I I I I I I I | | O | -Lour | ng/L | l Deriv | I | i | 1 | 88.0 | 120120102021 | | SUBURIE |
| | padingraph transmittenic acid (PFBS) | 537 | 9.0 | Well#14 | v | 0.0 | 1 | 1/00 | I | t | 1 | 1 | 0.89 0 | 04/26/2016 08:28 | 04/26/2016 22:50 | 3430000 |
| Ž. | | 537 | 1.0 | Well#14 | v | 1.0 | | 1 . | 7,00 | | I | 1 | 0.89 | 04/26/2016 08:28 | 04/26/2016 22:50 | 3430808 |
| FS | Perfluoroneptanoic acid (FFFI) | 103 | 30 | Well#14 | V | 3.0 | Province of the Control of the Contr | ng/L | 1 | | A COLUMN TOWNS THE PERSON NAMED IN COLUMN TOWN TOWN TOWNS THE PERSON NAMED IN COLUMN TOWN TOWN TOWN TOWN TOWN TOWN TOWN TOW | | 0 89 | 04/26/2016 08:28 | 04/26/2016 22:50 | 3430808 |
| FS | Perfluorohexanesulfonic acid (PFHxS) | 3 | | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | ٧ | 2.0 | | ng/L | 1 | 1 | ı | | ÷ | 04 PS PO 45 DB 28 | 04/26/2016 22:50 | 3430808 |
| S. | Perfluoronanoic acid (PFNA) | 537 | 2.0 | Litelloyy | | 40 | 2000 | ng/L | 1 | | 1 | 1 | | 4126/2010 00:20 | 03:00 04:00 | 3430808 |
| | Doduction sulforate (PFOS) | 537 | 4.0 | Well#14 | • | , | | 1/04 | I | 1 | l | ı | 0.89 0 | 04/26/2016 08:28 | 04/26/2016 22:50 | 2420000 |
| FS. | remucioncian e sancian | 537 | 2.0 | Well#14 | v | 2.0 | | IIG/L | , | 77 | | 1 | 1.0 | 04/26/2016 08:28 | 04/26/2016 23:21 | 3436363 |
| FS | Perfluorooctanoic acid (PFUA) | | VIIV | Well#14 | | 10970.60 | 9690.47 | ng/L | 511 | 200 | | | | 04/26/2016 08:28 | 04/26/2016 23:21 | 3436363 |
| LFSML | IS-PFOA-13C2 | 53/ | () | VALUE AND A | | 8431.93 | 7789.49 | ng/L | 108 | 20 - 120 | ı | 1 | | 00.00 | 04/26/2016 23:21 | 3436363 |
| ECMI | IS-PFOS-13C4 | 537 | N/A | Well#14 | | 04 7759 | 001 | ng/L | 98 | 70 - 130 | i | 1 | 1.0 | 04/26/2016 06:20 | 04120120120140 | 2426263 |
| | SOED-4030 | 537 | NA | Well#14 | | 84.7.53 | 000 | , ,,, | 95 | 70 - 130 | 1 | 1 | 1.0 | 04/26/2016 08:28 | 04/26/2016 23:21 | 3430303 |
| LFSML | 3000 VOLUM | 537 | N/A | Well#14 | | 47.7157 | 0.06 | II G | | 150 | ı | 1 | 1.0 | 04/26/2016 08:28 | 04/26/2016 23:21 | 3436363 |
| LFSML | SS-PFHxA-13C2 | 50 50 | c | Well#14 | | 8.4616 | 9.0 | ng/L | 5 | 201-00 | | | | 04/26/2016 08:28 | 04/26/2016 23:21 | 3436363 |
| LFSML | Perfluorobutanesulfonic acid (PFBS) | /50 | 2 | Well#14 | | 0.8990 | 1.0 | ng/L | 6 | 50 - 150 | I | 1 | t | 0417612016 08:28 | 04/26/2016 23:21 | 3436363 |
| LFSML | Perfluoroheptanoic acid (PFHpA) | 537 | 2 | , | | 2.5295 | 3.0 | ng/L | 48 | 20 - 120 | l | 1 | | | 0410GP014 23:21 | 3436363 |
| FSML | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | Well#14 | | 1 7902 | 2.0 | ng/L | 06 | 50 - 150 | 1 | 1 | | 04/26/2016 06:28 | 04/20/2010 20:01 | - |
| COMI | perfluorononanoic acid (PFNA) | 537 | 2.0 | Well#14 | | 1 07 | 0.4 | na/L | 80 | 50 - 150 | 1 | 1 | 0.1 | 04/26/2016 08:28 | 04/20/20/20/20/20 | 3 |
| T I | PEOPLE SUITORISE (PEOS) | 537 | 4.0 | Well#14 | | 3.1040 | e c | l) bu | 92 | 50 - 150 | 1 | 1 | 1.0 | 04/26/2016 08:28 | 04/26/2016 23:21 | |
| LISMIL | Politica circulation (DEOA) | 537 | 2.0 | Well#14 | | 1.8359 | 0.7 | j = | 109 | 50 - 150 | 1 | 1 | 0.87 | 04/26/2016 08:28 | 04/26/2016 23:52 | |
| LFSML | Perfluorooctanoic add (r 1 00) | 527 | A/N | Well#15 | | 10607.80 | 9690.47 | ng/L | 2 | 017 | The state of the s | 1 | 0.87 | 04/26/2016 08:28 | 04/26/2016 23:52 | 3430810 |
| FS | IS-PFOA-13C2 | 200 | N/A | Well#15 | Lagen at the property of the p | 7944.55 | 7789.49 | ng/L | 701 | 5 | | | 0.87 | 04/26/2016 08:28 | 04/26/2016 23:52 | 3430810 |
| FS | IS-PFOS-13C4 | 500 | VIV | Well#15 | S spare | 83.7950 | 190 | ng/L | 96 | 00 - 00 | | | 78.0 | 04/26/2016 08:28 | 04/26/2016 23:52 | 3430810 |
| FS | SS-PFDA-13C2 | 93/ | () | Wiell#15 | And the second | 41.8527 | 20.0 | ng/L | 98 | 70-130 | 1 | 1 | 000 | 047967016 08:28 | 04/26/2016 23:52 | 3430810 |
| FS | SS-PFHxA-13C2 | 537 | N/A | VVOINT | ٧ | 0.6 | l. oray | ng/L | 1 | 1 | 1 | i | /00 | 04/20/2010 00:20 | 04/26/2016 23:52 | 3430810 |
| SH | Perfluorobutanesulfonic acid (PFBS) | 537 | 0.6 | 2 #1900 | Action 1 | 0. | | ng/L | 1 | 1 | 1 | I | 0.8/ | 04/26/2019 06:20 | 9.0000000000000000000000000000000000000 | |
| 0 0 | Partitionoheptanoic acid (PFHpA) | 537 | 1.0 | Well#15 | v | 5. 6 | | na/L | 1 | 1 | 1 | 1 | 0.87 | 04/26/2016 08:28 | | |
| 0 | PEHXS) | 537 | 3.0 | Well#15 | v | o. | 300 | //54 | 1 | 1 | 1 | l | 0.87 | 04/26/2016 08:28 | - | -4 |
| FS | Perilloronexal resulton of the state of the | 537 | 2.0 | Well#15 | ٧ | 2.0 | | 191 | | 1 | 1 | 1 | 78.0 | 04/26/2016 08:28 | 04/26/2016 23:52 | 100 |
| FS | Perfluorononanoic acid (PFIVA) | 722 | 4.0 | Well#15 | ٧ | 4.0 | Control of the Contro | ng/L | 1 | | | 1 | 0.87 | 04/26/2016 08:28 | 04/26/2016 23:52 | 2 3430810 |
| FS | Perfluorooctane sulfonate (PFOS) | 200 | | Well#15 | ٧ | 2.0 | (April 1) | ng/L | 1 | 1 | | | 080 | 04/26/2016 08:28 | 04/27/2016 00:22 | 2 3430812 |
| FS | Perfluorooctanoic acid (PFOA) | 53/ | 7.0 | 3/4 -7/4/ | | 10458.10 | 9690.47 | ng/L | 108 | 50 - 150 | 1 | 1 | 80.0 | 80.80 9700000000 | 1 | 2 3430812 |
| FS | IS-PFOA-13C2 | 237 | NA | OI#IIBAA | | 7966.59 | 7789.49 | T/6u | 102 | 50 - 150 | 1 | 1 | 68.0 | 04/26/2010 00:20 | | |
| FS | IS-PFOS-13C4 | 537 | NA | o i #iia | | 83 5131 | 100 | ng/L | 96 | 70 - 130 | 1 | 1 | 0.89 | 04/25/2019 06:20 | | 1 |
| | SS-PFDA-13C2 | 537 | N/A | Well#16 | | | 0.04 | na/L | 98 | 70 - 130 | 1 0 | ł | 0.89 | 04/26/2016 08:28 | - | |
| 2 1 | SO DEHVA-1302 | 537 | N/A | Well#16 | | 42.3010 | | Non | 1 | 1 | 1 | ı | 0.89 | 04/26/2016 08:28 | - | |
| 22 | (Sand) bigg classification | 537 | 0.6 | Well#16 | v | 0.6 | | 1 100 | 1 | 1 | 1 | 1 | 68.0 | 04/26/2016 08:28 | | |
| S | Perluorobutanesanionio acadina | 537 | 1.0 | Well#16 | v | 1.0 | | III). | | | 1 | 1 | 0.89 | 04/26/2016 08:28 | 3 04/27/2016 00:22 | |
| FIS. | Perfluoroheptanold add (Princh) | 537 | 3.0 | Well#16 | ٧ | 3.0 | | ng/L | | | | 1 | 0.89 | 04/26/2016 08:28 | 3 04/27/2016 00:22 | 22 3430812 |
| S. | Perfluorohexanesulfonic acid (Prinxs) | 537 | 2.0 | Well#16 | ٧ | 2.0 | | ng/L | 1 | | | 1 | 0.89 | 04/26/2016 08:28 | 8 04/27/2016 00:22 | 22 3430812 |
| FS | Perfluoronanoic acid (PFNA) | 700 | 40 | Well#16 | ٧ | 4.0 | | ng/L | 1 | | | | 68.0 | 04/26/2016 08:28 | 8 04/27/2016 00:22 | 22 3430812 |
| ဖူ ag | Perfluorooctane sulfonate (PFOS) | 200 | | Well#16 | ٧ | 2.0 | | ng/L | 1 | + | | | 0 | 04/26/2016 08:28 | 8 04/27/2016 00:53 | 53 3430814 |
| FS | Perfluorooctanoic acid (PFOA) | 53/ | 2.7 | | | 10668.00 | 9690.47 | , ing/L | 110 | 50-150 | 1 09 | 1 | 2 | | | |
| FS | IS-PFOA-13C2 | 537 | ZVA | | | 73 | | | | | FFA | Run ID | 21502 | 5 / EEA Rep | FFA Run ID 215025 / EEA Report # 361128 | |

| | | | | | | | 3 | OC Summary Report (come) | Jil tooner | | | | ll⊨ | - | - | Cotracted | Analyzed | EEA |
|--|--|---------|--|--------|-------|-----------------|--|--------------------------|---------------|--------|--------------------------|----------|-----|---|-------|---|--|--------------|
| Participation Participatio | Particular Par | F | a files | Method | MRL | Client ID | Result | Amount | Target | Units | % Recovery | Recovery | | | actor | | | # Q |
| Section 1985 Sect | Particular and Particular State No. No. | eldu | Analyte | | | | Flag | | | | 30.4 | 40 - 150 | l | 1 | 1000 | 94/26/2016 08:28 | 04/27/2016 00:53 | 3430814 |
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| Perfutacoccianic acid Problem 25 557 NA Weekins Control Problem 26 Fig. 17 NA Weekins Control Problem 26 Fig. 17 NA Weekins Control Problem 26 Fig. 1 NA Weekins Control Problem 26 Fig. 27 NA Weekins Control Problem 26 Fig. 2 NA Weeki | Perflucocotation add (PFCA) 537 2.0 Wellin2 2.4 ng/L 10 | FS | Perfluorononanoic acid (FFINA) | 753 | 4.0 | Well#2 | v | 0.4 | | ng/L | 1 | | L | 1 | 0.98 | 04/26/2016 08:28 | 04/27/2016 01:24 | |
| Perfuncemental (PEOA) SSY A. Wields Food | Perflucocodamoic acid (PFDA) 557 NIA Viellet 3 1046930 956047 ng/L 1108 50-150 150-150 | FS | Perfluorooctane sulfonate (PFOS) | 100 | | Well#2 | | 2.4 | | ng/L | 1 | i | | | 000 | 04/26/2016 08:28 | 04/27/2016 01:55 | - |
| Signature Sign | Symptoch 13C2 S57 N/A Well#3 S01432 T789.49 T09L | FS | Perfluorooctanoic acid (PFOA) | 537 | 7.0 | CALILAN | | 10469.30 | 9690.47 | ng/L | 108 | 50 - 150 | 1 | 1 | 0.92 | 940000000000000000000000000000000000000 | 04/27/2016 01:58 | il- |
| Signature Sign | SS-PFDA-13C2 SS7 N/A Welffr3 S6 86.55 100 ng/L 94 70-130 SS-PFDA-13C2 SS7 N/A Welffr3 45.6055 50.0 ng/L 96 70-130 70-1 | FS | IS-PFOA-13C2 | 537 | N/A | CHIDAN | | 8014.32 | 7789.49 | ng/L | 103 | 50 - 150 | 1 | 1 | 0.92 | 04/20/2010 00:20 | 040770048 01.5 | 1 |
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| SS-PFHA-13C2 SS7 NA Welliss SS-PFHA-13C2 SS2-PFHA-13C2 SS2-PFHA-13C2 SS3 SS-PFHA-13C2 SS3 SS-P | SSPETIAL TSCZ 557 NNA Well#3 < 9.0 mg/L — — Perfluorobularesulfonic and (PFIBS) 537 1.0 Well#3 < 9.0 | ٥ | SS-PFDA-13C2 | 537 | A/N | Well#3 | Danie L | 2100,00 | 005 | na/L | 98 | 70 - 130 | 1 | 1 | 0.92 | 04/26/2016 08:28 | 04/2/12019 01:5 | and the |
| Perflucionchiamesalfinicia adi (PRBS) 537 9.0 Weilits | Perfluoroble and (PFBS) 537 1.0 Well#3 < 9.0 T/3 PGPL — — Perfluoroble analotic acid (PFIAA) 537 1.0 Well#3 < | 2 8 | SS-PFHXA-13C2 | 537 | N/A | Well#3 | S. P. S. | 43,0035 | | no/L | | 1 | L | 1 | 0.92 | 04/26/2016 08:28 | | - |
| Perfluctorioptament and CPFTN-1. Fig. 1.0 Weelers 3 7.3 m Verified 1.0 mount and CPFTN-1. State 1.0 mo | Perfluorobidiaries sulforitie sout (PFHAS) 537 1.0 Well#3 7.3 mg/L — Perfluorobidiaries sulforitie acid (PFHAS) 537 3.0 Well#3 < | 2 | (SEEG) bice disciplination | 537 | 0.6 | Well#3 | v | 0.6 | and the |)) | | 1 | ı | ١ | 0.92 | 04/26/2016 08:28 | - | |
| Perfutorohapianoid add (PFNA) 537 20 Well#3 4 4 4 4 4 4 4 4 4 4 4 4 4 | Perfluorotrappanote acid (PT-NA) 537 3.0 Velit#3 7.4 ng/L — Perfluorotrappanote acid (PFNA) 537 2.0 Velit#3 < | FS | Perfluorobutanesulioriic acid (11 cc) | 537 | 1.0 | Well#3 | | 7.3 | | ng/L | The second second second | | 1 | 1 | 0.92 | 04/26/2016 08:28 | VOVE III A | and the same |
| Perflucrotexarealfuling add (PFNA) 557 2.0 Well#3 4 4.0 mg/L | Perfluorobasanesulfonic acid (PFNAx) 537 2.0 Well#3 < 2.0 ng/L — — Perfluorocotane autfornate (PCS) 537 4.0 Well#3 < | FS | Perfluoroheptanoic acid (PFHPA) | 723 | 30 | Well#3 | THE STATE OF | 7.4 | | ng/L | 1 | | | 1 | 0.92 | 04/26/2016 08:28 | The same | |
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| Perfluctorociane sulforate (PCG) SST 2.0 Well#9 Perfluctorociane sulforate (PCG) SST NIA Well#9 SST 10.0 Well#9 SST 10.0 Well#9 SST 10.0 Well#9 SST 10.0 Well#9 SST NIA Well#9 SS | Perfluorooctane sultronate (PFOS) 537 2.0 Well#3 < 2.0 Nell#3 Nell#3 < 2.0 Nell#3 | FIS | Perfluorononanoic acid (PFNA) | 700 | 2 0 | Wel#3 | v | 0.4 | | ng/L | 1 | 1 | L | | 600 | 04/26/2016 08:28 | - | 1000 |
| Perfluctooctanoic acid (PEOA) 557 2.0 NIA Neilitis 9613.64 9690.47 ng/L 102 50-150 L 0.95 9472/2016 022.5 9472 | Perfluctoroctanoic acid (PFOA) 537 2.0 100 1 | FS | Perfluorooctane sulfonate (PFOS) | 53/ | ř | E#IIP/W | Y | 2.0 | Silver | ng/L | 1 | 1 | l | ı | 10.0 | 04/26/2016 08:28 | - | |
| SS-PFOA-13C2 SS7 N/A Well#9 T788.49 T98.4 T9 | S-PFOA-13C2 537 N/A Well#9 7749.96 7789.49 ng/L 99 50-150 15-PFOS-13C4 537 N/A Well#9 93.7169 100 ng/L 99 70-130 100 ng/L 97 70-130 100 | FS | Perfluoroctanoic acid (PFOA) | 537 | 2.0 | | | 9913.64 | 9690.47 | ng/L | 102 | 50 - 15 | 0 | 1 | 08.0 | 04/26/2016 08:28 | | |
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| SS-FFHXA-13C2 537 N/A Well#9 C 100 Ing/L — | SS-FFHX4-13C2 537 N/A Well#9 < 9.0 mg/L — — Perfluorobutanesulfonic acid (PFHSA) 537 1.0 Well#9 < | E S | SS-PFDA-13C2 | 237 | N/A | | | AR 1798 | 20.0 | ng/L | 16 | 70-1 | 000 | 1 | 0.95 | 04/26/2016 08:20 | | 4 |
| Perfluctobutanesulfonic acid (PFBS) 537 9,0 Well#9 < 3.0 ng/L — <th< td=""><td>Perfluorobutane sulfonic acid (PFBS) 537 9.0 Well#9 < 9.0 Well#9 < 9.0 Mell#9 < 9.0 mg/L — — Perfluorobetanoic acid (PFHpA) 537 3.0 Well#9 < 2.0</td> ng/L — — Perfluorochanoic acid (PFHbA) 537 2.0 Well#9 < 2.0</th<> | Perfluorobutane sulfonic acid (PFBS) 537 9.0 Well#9 < 9.0 Well#9 < 9.0 Mell#9 < 9.0 mg/L — — Perfluorobetanoic acid (PFHpA) 537 3.0 Well#9 < 2.0 | U | SS-PFHXA-13C2 | 537 | N/A | | | | | ng/L | 1 | 1 | 1 | 1 | 0.95 | 04/26/2016 08:2 | | |
| Perfluctoriotezia (PFHpA) 537 1.0 Well#9 4 1.0 | Perfluorobeptanoic acid (PFHpA) 537 1.0 Well#9 < 1.0 1.0 | 2 0 | perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | | v | 2. 6 | | na/L | 1 | 1 | 1 | 1 | 0.95 | 04/26/2016 08:2 | | FiF |
| Perfluctorioteparatic Perf | Perfluctorioreparation acid (PFHxS) | 2 1 | PEHDA) | 537 | 1.0 | | v | 2. | | l) bu | 1 | 1 | 1 | 1 | 0.95 | 04/26/2016 08:2 | | -16 |
| Perfluctoroparates union and (PFNA) 537 2.0 Well#9 < 2.0 ng/L | Perfluctorotaxarisationing acts (PNA) 537 2.0 Well#9 < 2.0 ng/L | 2 | Per monoring property (SXH3G) property (SXH3G) | 537 | 3.0 | | v | 3.0 | | | 1 | 1 | 1 | 1 | 0.95 | 04/26/2016 08:2 | | -4 |
| Perfluorooctane sulforate (PFOS) 537 4.0 Well#9 < 4.0 ng/L — — — — 0.95 04/26/2016 08:28 04/27/2016 02:56 Perfluorooctane sulforate (PFOS) 537 2.0 Well#9 < 2.0 ng/L 107 50-150 — — 0.98 04/26/2016 08:28 04/27/2016 02:56 Perfluorooctanoic acid (PFOA) 537 N/A Well#9 8057.56 7789.49 ng/L 103 50-150 — — 0.98 04/26/2016 08:28 04/27/2016 02:56 Perfluorooctanoic acid (PFOA) 537 N/A Well#9 8057.56 7789.49 ng/L 103 50-150 — — 0.98 04/26/2016 08:28 04/27/2016 02:56 Perfluorooctanoic acid (PFOA) 537 N/A Well#9 8057.56 7789.49 ng/L 103 50-150 — — 0.98 04/26/2016 08:28 04/27/2016 02:56 Perfluorooctanoic acid (PFOA) 537 N/A Well#9 8057.56 7789.49 ng/L 103 50-150 — — 0.98 04/27/2016 02:56 Perfluorooctanoic acid (PFOA) 537 N/A Well#9 8057.56 7789.49 ng/L 103 50-150 — — 0.98 04/27/2016 02:56 Perfluorooctanoic acid (PFOA) 537 N/A Well#9 8057.56 7789.49 ng/L 103 50-150 — — 0.98 04/27/2016 02:56 Perfluorooctanoic acid (PFOA) 537 N/A Well#9 8057.56 7789.49 ng/L 103 50-150 — — 0.98 04/27/2016 02:56 Perfluorooctanoic acid (PFOA) 537 N/A Well#9 8057.56 7789.49 ng/L 103 50-150 — — 0.98 04/27/2016 02:56 Perfluorooctanoic acid (PFOA) 557 N/A Well#9 8057.56 7789.49 ng/L 103 50-150 — — 0.98 04/27/2016 02:56 Perfluorooctanoic acid (PFOA) 557 N/A Well#9 8057.56 7789.49 ng/L 103 50-150 — — 0.98 04/27/2016 02:56 Perfluorooctanoic acid (PFOA) 557 N/A Well#9 8057.56 7789.49 ng/L 103 50-150 — — 0.98 04/27/2016 02:56 Perfluorooctanoic acid (PFOA) 557 N/A Well#9 8057.56 7789.49 ng/L 103 50-150 — — 0.98 04/27/2016 02:56 Perfluorooctanoic acid (PFOA) 557 N/A Well#9 8057.56 7789.49 ng/L 103 50-150 — — 0.98 04/27/2016 02:56 Perfluorooctanoic acid (PFOA) 557 N/A Well#9 8057.56 7789 N/A Well#9 8057.56 7789 N/A Well#9 8057.56 7789 N/A Well#9 N | Perfluorooctaine sulforate (PFOS) | S. | Permuoronexamesumono del constanto del const | 537 | 2.0 | | v | | | 2 | | 1 | 1 | 1 | 0.95 | 04/26/2016 08:2 | | |
| Permuoroocaanis virios) 537 2.0 Well#9 < 2.0 Nell#9 10402.60 9890.47 ng/L 107 50-150 - 0.98 04/26/2016.08:28 04/27/2016.02:56 15. PFOA-13C2 537 N/A Viel#9 8057.56 7789.49 ng/L 103 50-150 - 0.98 04/26/2016.08:28 04/27/2016.02:56 10. No. | Perfluoroctanic v.1.Co; Veril#9 C 2.0 Nat. 107 50-15 Perfluoroctanic acid (PFOA) 537 NiA Veril#9 10402.60 9890.47 ng/L 107 50-15 15-PFOA-13C2 537 NiA Veril#9 8057.56 7789.49 ng/L 103 50-15 | ST . | Permuoronamiono acada (PEOS) | 537 | 0.4 | | v | | | 197 | | 1 | | 1 | 0.95 | 04/26/2016 08:2 | | |
| Perfluctrocotandic adult 104 10402.60 9890.47 1091. 103 50 - 150 - 0.98 04/26/2016 08:28 04/27/2016 02:56 15-PC) 15-PC) 15-PC) 15-PC) 16-PC) 16-P | Perfluorocambic adult (**P.COA-13C2 | က Pa | Vernuorooctalie suitoriate | 537 | 2.0 | | ٧ | | 1 | | | t | 50 | 1 | 0.98 | 04/26/2016 08:2 | | |
| 15-FF-U2-150.2 537 N/A Well#9 8057.56 7789.49 ng/L 103 | IS-PT-DA-13C4 537 N/A Well#9 8057.56 7789.49 ng/L 100 501 | e de | Perlluoroccianion acid | 537 | N/K | | -275 | 10402.60 | | | - | | 050 | 1 | 0.98 | - | 200 | oranie I |
| | IS-PFOS-13C4 | 요 16 | S-PFOA-13CZ | 537 | *N | Control Control | | 8057.56 | | | 5 | | 3 | 1 | | | 901100 | |

| Sample | Analyte | | | 014 | Pacilit | Amount | Target | Units | % | Recovery | 2 | | - Contract | | | # □ |
|----------|--|--------|------------|--|--|----------|----------|-------|----------|----------------|------------|---|------------|--|--|---------------|
| 9 | MINING | Method | MRL | Cllent ID | Neser. | | | | Recovery | Limits | | = | Factor | | | |
| Ape | | | | | riag | | | 1/00 | 95 | 70 - 130 | 1 | 1 | 96.0 | 04/26/2016 08:28 | 04/27/2016 02:56 | 3436364 |
| | SS PEDA-13C2 | 537 | N/A | Well#9 | T.Las | 93.9786 | 100 | ng/L | 2 6 | 70-130 | 1 | 1 | 0.98 | 04/26/2016 08:28 | 04/27/2016 02:56 | 3436364 |
| FD | 2001-701-1-00 | 537 | N/A | Well#9 | 200 | 47.6305 | 90.09 | ng/L | À | 201 | | - | 1 | 04/26/2016 08:28 | 04/27/2016 02:56 | 3436364 |
| e e | SS-PFHXA-13CA | 537 | 0.6 | Well#9 | v | 0.6 | | ng/L | 1 | 1 | l | | 9 9 | 04/26/2016 08:28 | 04/27/2016 02:56 | 3436364 |
| æ | Perfluorobutanesulfonic acid (PFBS) | | | 6#IIe/V\ | v | 1.0 | 170000 | ng/L | 1 | 1 | i | ı | 0.30 | 000000000000000000000000000000000000000 | 04.07.001E 02.5E | 3436364 |
| E | Perfluoroheptanoic acid (PFHpA) | 537 | 2.0 | O-EIIDAA | | 30 | 1000 | ng/L | 1 | 1 | 1 | 1 | 0.98 | 04/26/2016 08:28 | 04/2//2018 02:30 | 00000 |
| GE CE | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | Well#9 | , | 0 0 | | han | 1 | 1 | 1 | ı | 86'0 | 04/26/2016 08:28 | 04/27/2016 02:56 | 3436364 |
| | De-direction and (PFNA) | 537 | 2.0 | Well#9 | v | 2.0 | | l a | | I | ı | 1 | 86.0 | 04/26/2016 08:28 | 04/27/2016 02:56 | 3436364 |
| | Programme and PEOS) | 537 | 0.4 | Well#9 | V | 4.0 | | ng/L | | | ı | I | 0.98 | 04/26/2016 08:28 | 04/27/2016 02:56 | 3436364 |
| E . | Permuoroociania sanionava (1901) | 537 | 2.0 | Well#9 | ٧ | 2.0 | of areas | ng/L | 1 | 1 | | | 70.0 | 04/26/2016 08:28 | 04/27/2016 03:27 | 3430822 |
| 6 | Perfluorooctanoic acid (PFOA) | | W/W | Well#10 | | 9976.38 | 9690.47 | ng/L | 103 | 50 - 150 | i | | 10.0 | 90:30 | 04/27/2016 03:27 | 3430822 |
| FS | IS-PFOA-13C2 | 537 | ¥ : | Well#10 | | 7783.60 | 7789.49 | ng/L | 100 | 50 - 150 | i | ı | 0.97 | 04/26/2016 08:28 | 742700000000000000000000000000000000000 | 3430822 |
| FS | IS-PFOS-13C4 | 537 | N/A | or#ilevv | | 06 8382 | 100 | ng/L | 66 | 70 - 130 | 1 | i | 76.0 | 04/26/2016 08:28 | 04/2//2016 03:2/ | 3430024 |
| ď | SS-PFDA-13C2 | 537 | NA | Well#10 | | 30.000 | | //00 | 6 | 70 - 130 | 1 | 1 | 76.0 | 04/26/2016 08:28 | 04/27/2016 03:27 | 3430822 |
| , , | SS-DEHVA-13C2 | 537 | N/A | Well#10 | | 48.2362 | 0.00 | 1 | | 1 | 1 | i | 76.0 | 04/26/2016 08:28 | 04/27/2016 03:27 | 3430822 |
| 'n | Consideration | 537 | 9.0 | Well#10 | v | 0.6 | | ng/L | 1 | | | 1 | 26.0 | 04/26/2016 08:28 | 04/27/2016 03:27 | 3430822 |
| ស្ន | Perfluorobutanesuironic acid (TTCC) | 537 | 10 | Well#10 | v | 1.0 | | ng/L | I | 1 | | | 700 | 04/26/2016 08:28 | 04/27/2016 03:27 | 3430822 |
| FS | Perfluoroheptanoic acid (PFHpA) | 100 | | 0/#II#10 | v | 3.0 | | ng/L | 1 | 1 | l | 1 | 6.0 | 000000000000000000000000000000000000000 | 70.50 910015010 | 3430822 |
| FS | Perfluorohexanesulfonic acid (PFHxS) | 93/ | 0.0 | Commercial | | 2.0 | | ng/L | I | 1 | 1 | 1 | 0.97 | 04/25/2015 06.29 | Company of the contract of the | |
| FS | Perfluorononanoic acid (PFNA) | 537 | 2.0 | Well#10 | | | | na/L | 1 | 1 | i | 1 | 76'0 | 04/26/2016 08:28 | 04/27/2016 03:27 | |
| 2 6 | podiumordane sulfonate (PFOS) | 537 | 4.0 | Well#10 | v | 0.4 | | b | | 1 | 1 | 1 | 76.0 | 04/26/2016 08:28 | 04/27/2016 03:27 | - |
| 2 4 | Partition of the property of the PEOA) | 537 | 2.0 | Well#10 | v | 2.0 | | 5 | 100 | 50-150 | 1 | 1 | 1.0 | 04/25/2016 10:34 | 04/27/2016 04:28 | 3436372 |
| 2 | | 537 | N/A | - | | 10372.70 | 10372.7 | ng/L | 2 | 21 | THOUSE CO. | ı | 1.0 | 04/25/2016 10:34 | 04/27/2016 04:28 | 3436372 |
| CCM | S-P-UA-1302 | 703 | N/A | | 200 | 7826.45 | 7826.45 | ng/L | 100 | 200 | | | 0 | 04/25/2016 10:34 | 04/27/2016 04:28 | 3436372 |
| CCM | IS-PFOS-13C4 | 100 | VIV | 1 | 2000 | 97.6020 | 100 | ng/L | 86 | 70 - 130 | 1 | 1 | 2 | A 500 500 500 500 500 500 500 500 500 50 | 04/27/2016 04:28 | 3436372 |
| CCM | SS-PFDA-13C2 | 53/ | <u> </u> | | | 49.1894 | 20.0 | ng/L | 86 | 70 - 130 | 1 | | 9. | 04/20/20/010:04 | 04/07/2016 04:28 | 3436372 |
| CCM | SS-PFHxA-13C2 | 537 | Y. | The second secon | | 668.6460 | 675 | ng/L | 66 | 70 - 130 | 1 | 1 | 0.1 | 04/25/2016 10.34 | C.F.C. C.F.C. C.F.C. | di |
| CCM | Perfluorobutanesulfonic acid (PFBS) | 537 | 0.6 | - | Name of the last | 73 9002 | 75.0 | ng/L | 66 | 70 - 130 | - | 1 | 1.0 | 04/25/2016 10:34 | | perch hi to |
| CCM | Perfluoroheptanoic acid (PFHpA) | 537 | 0 : | | 7997 | 0107 000 | 225 | ng/L | 66 | 70 - 130 | 0 | 1 | 1.0 | 04/25/2016 10:34 | 11/1 | 75 |
| CCM | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | 100 | ALC COLOR | 470.0450 | 150 | na/L | 100 | 70-130 | 0 | 1 | 1.0 | 04/25/2016 10:34 | -1 | in la |
| 200 | Perfluorononanoic acid (PFNA) | 537 | 2.0 | l | The state of the s | 0010.001 | | 000 | 100 | 70-130 | 1 | 1 | 1.0 | 04/25/2016 10:34 | | Salara Salara |
| | Dodgiocochana sulfonate (PFOS) | 537 | 4.0 | 1 | | 298.7450 | 300 | 9 | 3 | 70 - 130 | 0 | 1 | 1.0 | 04/25/2016 10:34 | p carried | 8 3436372 |
| <u> </u> | Tel national designation of APOA) | 537 | 2.0 | 1 | 202 | 148.7950 | 150 | ng/L | 3 8 | 50 - 150 | | 1 | 6:0 | 04/26/2016 08:28 | 04/27/2016 08:04 | 4 3430817 |
| CCIM | COL ACID CO. | 537 | N/A | Well#2 Field Blank | | 10556.50 | 10372.7 | ng/L | 20 20 | 20 02 | | 1 | 6.0 | 04/26/2016 08:28 | 04/27/2016 08:04 | 4 3430817 |
| 8 | 10-1707TG | 537 | N/A | Well#2 Field Blank | | 8062.50 | 7826.45 | ng/L | 3 3 | 70 130 | | 1 | 6.0 | 04/26/2016 08:28 | 04/27/2016 08:04 | 4 3430817 |
| FTB | 405-1-00-1-1-01 | 537 | N/A | Well#2 Field Blank | | 87.3998 | 9 | ng/L | ñ | | 3 9 | | a | 04/26/2016 08:28 | 04/27/2016 08:04 | 3430817 |
| FTB | SS-PFDA-13C2 | 537 | N N | Well#2 Field Blank | | 43.7487 | 20.0 | ng/L | 97 | 051-0/ | 3 | | 0 0 | 04/26/2016 08:28 | | 3430817 |
| ET8 | SS-PFHXA-13CZ | 100 | G | Well#2 Field Blank | ٧ | 0.6 | | ng/L | 1 | 1 | C | | 2 | 04/28/2016 08:28 | 04/27/2016 08:04 | 3430817 |
| FTB | Perfluorobutanesulfonic acid (PFBS) | 763 | 10 | Well#2 Field Blank | v | 1.0 | | ng/L | 1 | 1 | 1 | 1 | 2 0 | 04/26/2016 08:28 | 1 | 3430817 |
| FTB | Perfluoroheptanoic acid (PFHpA) | 33 | 2 6 | Well#2 Field Blank | v | 3.0 | | ng/L | 1 | 1 | I I | 1 | 9 6 | 047267046 08:28 | - | 3430817 |
| FTB | Perfluorohexanesulfonic acid (PFHxS) | 937 | 2 6 | Shall Plant | ٧ | 2.0 | | ng/L | 1 | i | 1 | | 2 | 04/20/20/20/20/20 | | 1 |
| FIB | Perfluorononanoic acid (PFNA) | 537 | 0.2 | Anela bleid C#IIO/A/ | - | 4.0 | | ng/L | 1 | 1 | I | 1 | 0.0 | 04/25/2015 06:29 | 4 | |
| EE. | Perfluorooctane sulfonate (PFOS) | 537 | 0. | Acela Main Canada | | 2.0 | | ng/L | 1 | 1 | ı | 1 | 6.0 | 04/26/2016 06:26 | | - |
| EF. | Perfluorooctanoic acid (PFOA) | 283 | 5.0 | Well#2 Field Dialin | | 10181 60 | 10372.7 | ng/L | 86 | 50 - 150 | 1 20 | 1 | 6.0 | 04/26/2016 08:28 | | -01- |
| Pag | IS-PFOA-13C2 | 537 | N/A | | | 7944 13 | 7826.45 | ng/L | 102 | 50 - 150 | - 09 | 1 | 6.0 | 04/26/2016 08:28 | - | - |
| FTB | IS-PFOS-13C4 | 537 | NA | | | 85 2446 | 100 | | 95 | 70-130 | 130 | 1 | 6.0 | 04/26/2016 08:28 | 8 04/27/2016 08:34 | 34 3430018 |
| 17 | SS 05DA-13C2 | 537 | N/A | Well#3 Field Blank | 910000 | 0447.00 | 3 | | | and the second | | | | 007700 # | TOTAL STREET | |

| | | | | | 3 | QC Summary Report (cont.) | JOIL (00) | | | | ⊫ | 100 | Extracted | Analyzed | EEA |
|--------|---------------------------------------|--|------|--------------------|--------|---------------------------|--------------|-------|---------------|--------------------|-----|---------|---|---------------------|-----------|
| | | Part of the Part o | MRI | Client ID | Result | Amount | Target | Units | % Recovery | Recovery Limits | RPD | KPD DII | | | # □ |
| Sample | Analyte | Method | | | Flag | | | | i de | 70 - 130 | | 6.0 | 04/26/2016 08:28 | 04/27/2016 08:34 | 3430819 |
| Type | | 537 | A/N | Well#3 Field Blank | | 42.7188 | 20.0 | ng/L | G B | | | 0.9 | 04/26/2016 08:28 | 04/27/2016 08:34 | 3430819 |
| FTB | SS-PFHxA-13C2 | 537 | 06 | Well#3 Field Blank | ٧ | 0.6 | | ng/L | | | | 6.0 | 04/26/2016 08:28 | 04/27/2016 08:34 | 3430819 |
| FTB | Perfluorobutanesulfonic acid (PFBS) | 537 | 1.0 | Well#3 Field Blank | ٧ | 1.0 | | ng/L | 1 | | | | 04/26/2016 08:28 | 04/27/2016 08:34 | 3430819 |
| FTB | Perfluoroheptanoic acid (PFHpA) | 3 | C | Well#3 Field Blank | ٧ | 3.0 | - CONTRACTOR | ng/L | I | | | o c | 04/26/2016 08:28 | 04/27/2016 08:34 | 3430819 |
| FTB | Perfluorohexanesulfonic acid (PFHxS) | 537 | 0.0 | deeld blein out. | V | 2.0 | | ng/L | CONTROL INC. | 1 | I | 3 | 80.30 | 04/27/2016 08:34 | 3430819 |
| FTB | Perfluorononanoic acid (PFNA) | 537 | 2.0 | Well+3 | 100 | 4.0 | · Andrews | J/Gu | 1 | 1 | 1 | я Э | 2000 0102000000000000000000000000000000 | 1 | 3430819 |
| ata | Perfluctane sulfonate (PFOS) | 537 | 4.0 | Well#3 Field Blank | | c | | ng/L | 1 | ı | 1 | 6.0 | 04/26/2016 06.20 | | n3 |
| | T T T T T T T T T T T T T T T T T T T | 537 | 2.0 | Well#3 Field Blank | V | 0.7 | o hereo | 100 | 100 | 50 - 150 | 1 | 1.0 | 04/25/2016 10:34 | 4 | |
| F18 | Permoroccanoic acid (1 1 01) | 101 | VIV | 1 | | 10177.30 | 5.17101 | 180 | | | | 0, | 04/25/2016 10:34 | 4 04/27/2016 10:07 | 3436373 |
| CCH | IS-PFOA-13C2 | 936 | | | | 7405.06 | 7405.06 | ng/L | 100 | 061-06 | | 1 | 0475701R 10:34 | 4 04/27/2016 10:07 | 3436373 |
| 700 | IS-PFOS-13C4 | 537 | ¥ N | ŀ | | 90 800 | 100 | ng/L | 66 | 70 - 130 | 1 | 2 | 200000000000000000000000000000000000000 | | 7 3436373 |
| 1 | 000 | 537 | N/A | 1 | | 90.0250 | | lan. | 80 | 70 - 130 | 1 | 1.0 | 04/25/2016 10:34 | | |
| CCH | SS-PFUA-13C2 | 763 | AN | 1 | | 49.1070 | 20.0 | TIĞI. | 3 | 100 | | 1.0 | 04/25/2016 10:34 | 4 04/27/2016 10:07 | 3436373 |
| ОСН | SS-PFHxA-13C2 | | c | 1 | | 1133.4900 | 1125 | ng/L | 5 | 2 | | • | 04/25/2016 10:34 | 4 04/27/2016 10:07 | 7 3436373 |
| HOO | Perfluorobutanesulfonic acid (PFBS) | 537 | 0.00 | 11.10 | | 126.0430 | 125 | ng/L | 101 | 70 - 130 | ı | | ÷ | 70:016 10:07 | 7 3436373 |
| Ť, | Perfluoroheotanoic acid (PFHpA) | 537 | 1.0 | 1 | | 0900 000 | 375 | ng/L | 103 | 70 - 130 | i | 2.5 | 1 | 4 | 7 2436373 |
| 5 | (SXHAQ) pipe pinglipping (PEHXS) | 537 | 3.0 | 1 | | 388.0300 | 0 0 | you | 66 | 70 - 130 | i | 1.0 | 04/25/2016 10:34 | | |
| HOO H | Periliporonexanesuiloiino acid | 537 | 2.0 | ı | | 247.5700 | 720 | 30 | 404 | 70-130 | 1 | 1.0 | 04/25/2016 10:34 | 34 04/27/2016 10:07 | 7 3436373 |
| CCH | Perfluorononanoic acid (PFNA) | | 0.7 | 1 | | 517.5250 | 200 | ng/L | 5 | | İ | 2 | 04/25/2016 10:34 | 34 04/27/2016 10:07 | 7 3436373 |
| НОО | Perfluorooctane sulfonate (PFOS) | 537 | 5, 4 | | | 254.3230 | 250 | ng/L | 102 | 70-130 | 1 | + | i | | |
| | (ACRO) biog cignetters and (DECIA) | 537 | 2.0 | | | | | | | | | | | | |

| | | Sample Type Key | Sample Type | |
|--------------|--|-----------------|-------------|--|
| Type (Abbr.) | Sample Type Continuing Calibration High | | | |
| CCL | Continuing Calibration Low | | | |
| CCM | Continuing Calibration Mid | | | |
| 0 | Field Duplicate | | | |
| FS | Field Sample | | | |
| FTB | Field Trip Blank | | | |
| FBL | Fortified Blank Low | | | |
| LFSML | LFSM Low | | | |
| LRB | Laboratory Reagent Blank | | | |
| | | | | |

END OF REPORT

eurofins.

Eaton Analytical

South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207 110 S. Hill Street

95/47/5 and order # 3/74/159 Batch # 4

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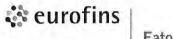
ЭМІТ ФИЛОЯАИЯ П 30 B 3 06-LO-F0435 Issue 4.0 Effective Date: 2014-05-01 3 LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT 4 N/N OF CONTAINERS EA16-Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges. 0414 CHLORINATED 2 Page ___ #Od C Upon Receipt SOURCE WATER TO DOWN SAMPLE REMARKS STATE (sample origin) PROJECT NAME Ambient 22/GD CONDITIONS UPON RECEIPT (check one): 537 Iced: Wet/Blue CHAIN OF CUSTODY RECORD TEST NAME FPA CALL 125% CALL LAB COMMENTS POPULATION SERVED PWS ID # IN* =Immediate Written; (3 working days) IV* = Immediate Verbal: (3 working days) Pu PFC13 AM PM AM PM 525 AM PM STAT" = Less than 48 hours TIME SP* = Weekend, Holiday 1/12/1/5 DATE DATE å Field Blank Blank SAMPLING SITE RECEIVED FOR LABORATORY BY: he id RECEIVED BY:(Signature) AM PM TURN-AROUND TIME (TAT) - SURCHARGES SAMPLER (Signature) COMPLIANCE Well #9 #10 40 #10 Han % Nost SW = Standard Written: (15 working days) Weil 11011 Rush Written: (5 working days) RV* = Rush Verbal; (5 working days) 4/13/16 1525 DATE TIME 1525 AM PM Ab-wath NY AM PM TIME COLLECTION 1430 430 DATE 450 1430 TIME 4/13/11 Shaded area for EEA use only drivers Bith 4/13/16 DATE DW-DRINKING WATER
WAREAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
SW-SURFACE WATER
PW-POOL WATER
WW-WASTE WATER Covere DOWN (NYCLE RELINQUISHED BY: (Signature) RELINQUISHED BY:(Signature) MATRIX CODES: www.eurofinsus.com/eaton をひいく LAB Number REPORT TO

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agree to in writing by EEA.



110 S. Hill Street

06-LO-F0435 Issue 4.0 Effective Date: 2014-05-01
Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agree to in writing by EEA. TIME GNUORANRU 3 39 8 E 3 **HATRIX CODE** Order #294159 LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT ¥ H " 8 N d to Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges. CHLORINATED F. Drum EA16 10414 #Od C Upon Receipt Batch # Page SAMPLE REMARKS STATE (sample origin) | PROJECT NAME South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207 Ambient 30 CONDITIONS UPON RECEIPT (check one): SOURCE WATER 537 Iced: Wet/Blue CHAIN OF CUSTODY RECORD TEST NAME CALL FPA 125% CALL LAB COMMENTS POPULATION SERVED W* =immediate Written: (3 working days) IV* = Immediate Verbal: (3 working days) PFCs by # OI SMd AM PM 50 AM PM STAT" = Less than 48 hours AM PM TIME SP = Weekend, Holiday **ら**1/8/小 DATE DATE S. Field Blonk Field Blente Blank Blank heid Blank RIGAK Blank Much sveel. SAMPLING SITE RECEIVED FOR LABORATORY BY: heid Pila Field Feld TURN-AROUND TIME (TAT) - SURCHARGES RECEIVED BY: (Signature) Eaton Analytical W 600 #3 Weil # 2 SAMPLER (Signature) #15 #17 VC11 # 18 #1 #16 COMPLIANCE 411011 #14 % 1100x # 11/0/11 SW = Standard Written: (15 working days) 110:11 HOM 1121 11011 ¿W* = Rush Written: (5 working days) RV* = Rush Verbal: (5 working days) 152S AM PIN DS S AM PM TIME AM PM 413/10 413/16 1345 1345 DATE 350 DATE COLLECTION 145 1320 500 201 11:82 500 1145 320 53 TIME Shaded area for EEA use only 413/1 MAIN 1015 DATE DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER PW-DOL WATER WW-AWASTE WATER RELINGUISHED BY:(Signature) RELINQUISHED BY:(Signature) MATRIX CODES: Oxel SUNERS www.eurofinsus.com/eaton LAB Number 10 12



Eaton Analytical

110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207 1 800 332 4345

Laboratory Report

Client:

Attn:

Converse Laboratories

Donna Zang

800 Starbuck Ave, Suite B101

Watertown, NY 13601

Report:

364607

Priority:

Standard Written

Status:

Amended

PWS ID:

Not Supplied

Lab ELAP #:

11398

| | | Sample Information | | | |
|------------|----------------|--------------------|--------------------------|------------------|-------------------------|
| EEA ID# | Client ID | Method | Collected Date / Time | Collected By: | Received Date / Time |
| 3463547 | WW007-0616 | 537 | 06/02/16 09:47 | Client | 06/03/16 10:00 |
| 3463548 | WW007-0616/FTB | 537 | 06/02/16 09:47 | Client | 06/03/16 10:00 |
| 3463549 | WW011-0616 | 537 | 06/02/16 10:37 | Client | 06/03/16 10:00 |
| 3463550 | WW011-0616/FTB | 537 | 06/02/16 10:37 | Client | 06/03/16 10:00 |

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Kelly Trott at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Whiley YEST Army First Sorriers Hanager Title

06/27/2016

Date

Authorized Signature

Converse Laboratories

Client Name: Report #:

364607

Page 1 of 4

Report #: 364607

Sampling Point:

WW007-0616

PWS ID: Not Supplied

| | | | EEA Met | hods | | | | | |
|----------------|--------------------------------------|--------|----------------|------|--------|-------|---------------------|------------------|------------|
| Analyte ID# | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | | 9,0 | < 9.0 | ng/L | 06/13/16 07:29 | 06/14/16 04:21 | 3463547 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | _ | 1.0 | 36 | ng/L | 06/13/16 07:29 | 06/14/16 04:21 | 3463547 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | - | 3.0 | 150 | ng/L | 06/13/16 07:29 | 06/14/16 04:21 | 3463547 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | - | 2,0 | < 2.0 | ng/L | 06/13/16 07:29 | 06/14/16 04:21 | 3463547 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | 1-1 | 4.0 | 11 | ng/L | 06/13/16 07:29 | 06/14/16 04:21 | 3463547 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | _ | 2.0 | 90 | ng/L | 06/13/16 07:29 | 06/14/16 04:21 | 3463547 |

Sampling Point:

WW007-0616/FTB

PWS ID: Not Supplied

| | | z - e - "- " | EEA Met | hods | | | | | |
|----------------|--------------------------------------|--------------|--------------|------|--------|-------|---------------------|------------------|------------|
| Analyte ID# | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | - | 9.0 | < 9.0 | ng/L | 06/13/16 07:29 | 06/14/16 07:58 | 3463548 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | - | 1.0 | < 1.0 | ng/L | 06/13/16 07:29 | 06/14/16 07:58 | 3463548 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | - | 3.0 | < 3.0 | ng/L | 06/13/16 07:29 | 06/14/16 07:58 | 3463548 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | - | 2.0 | < 2.0 | ng/L | 06/13/16 07:29 | 06/14/16 07:58 | 3463548 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | - | 4.0 | < 4.0 | ng/L | 06/13/16 07:29 | 06/14/16 07:58 | 3463548 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | _ | 2.0 | < 2.0 | ng/L | 06/13/16 07:29 | 06/14/16 07:58 | 3463548 |

Sampling Point:

WW011-0616

PWS ID: Not Supplied

| | | | EEA Met | hods | | | | | |
|----------------|--------------------------------------|--------|--------------|------|--------|-------|---------------------|------------------|------------|
| Analyte ID# | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | | 9.0 | 10 | ng/L | 06/13/16 07:29 | 06/14/16 04:52 | 3463549 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | - | 1.0 | 11 | ng/L | 06/13/16 07:29 | 06/14/16 04:52 | 3463549 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | _ | 3,0 | 21 | ng/L | 06/13/16 07:29 | 06/14/16 04:52 | 3463549 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | _ | 2.0 | < 2.0 | ng/L | 06/13/16 07:29 | 06/14/16 04:52 | 3463549 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 4.0 | < 4.0 | ng/L | 06/13/16 07:29 | 06/14/16 04:52 | 3463549 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | — | 2.0 | 4.9 | ng/L | 06/13/16 07:29 | 06/14/16 04:52 | 3463549 |

Client Name:

Converse Laboratories

Report #: 364607

Sampling Point: WW011-0616/FTB

PWS ID: Not Supplied

| | | | EEA Met | hods | | | | | |
|----------------|--------------------------------------|--------|------------------|------|--------|-------|---------------------|------------------|------------|
| Analyte ID# | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 |) - 1 | 9.0 | < 9.0 | ng/L | 06/13/16 07:29 | 06/14/16 08:29 | 3463550 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | _ | 1.0 | < 1.0 | ng/L | 06/13/16 07:29 | 06/14/16 08:29 | 3463550 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | _ | 3,0 | < 3.0 | ng/L | 06/13/16 07:29 | 06/14/16 08:29 | 3463550 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | - | 2.0 | < 2.0 | ng/L | 06/13/16 07:29 | 06/14/16 08:29 | 3463550 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | _ | 4.0 | < 4.0 | ng/L | 06/13/16 07:29 | 06/14/16 08:29 | 3463550 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | _ | 2,0 | < 2.0 | ng/L | 06/13/16 07:29 | 06/14/16 08:29 | 3463550 |

[†] EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

| | A1.11.12.21.11.11.11.11.11.11.11.11.11.11 | *************************************** | |
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| Reg Limit Type: | MCL | SMCL | AL |
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LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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STATE CERTIFICATION LIST

| State | Certification | State | Certification |
|-------------------------|----------------|----------------------|-----------------|
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| Alaska | IN00035 | Nebraska | E87775 |
| Arizona | AZ0432 | Nevada | IN00035 |
| Arkansas | IN00035 | New Hampshire* | 2124 |
| California | 2920 | New Mexico | IN00035 |
| Colorado | IN035 | New Jersey* | IN598 |
| Colorado Radiochemistry | IN035 | New York* | 11398 |
| Connecticut | PH-0132 | North Carolina | 18700 |
| Delaware | IN035 | North Dakota | R-035 |
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| Georgia | 929 | Oklahoma | D9508 |
| Hawaii | IN035 | Oregon (Primary AB)* | 4074-001 |
| ldaho | IN00035/E87775 | Pennsylvania* | 68-00466 |
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| Indiana Chemistry | C-71-01 | South Carolina | 95005 |
| Indiana Microbiology | M-76-07 | South Dakota | IN00035 |
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| Kentucky | 90056 | Texas/TCEQ | TX207 |
| Louisiana* | LA160002 | Utah* | IN00035 |
| Maine | IN00035 | Vermont | VT-8775 |
| Maryland | 209 | Virginia* | 460275 |
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| Michigan | 9926 | West Virginia | 9927 C |
| Minnesota* | 018-999-338 | Wisconsin | 999766900 |
| Mississippi | IN035 | Wyoming | IN035 |
| Missouri | 880 | | |

^{*}NELAP/TNI Recognized Accreditation Bodies

Revision date: 04/14/2016

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample al6iquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.



| www.EurofinsUS.com/Eakon | | | CHAIN | OF CUST | CHAIN OF CUSTODY RECORD | 3D | | Page | of [| |
|-----------------------------|------------------------------|------------------------------|--|-------------|--|--|-----------------------|------------------|--------|-------|
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| MATRIX CODES: | TURN-AROUND TIME (TAT) - SURCHARGES | | | | |
| DW-DRINKING WATER | SW = Standard Written: (15 working days) 0% | IV = Immediate | IV* = Immediate Verbal: (3 working days) | () 100% | |
| RW-REAGENT WATER | RV* = Rush Verbal: (5 working days) 50% | IW = Immediate | W = Immediate Written: (3 working days) | s) 125% Samples received unarnounced with less | ounced with less |
| GW-GROUND WATER EW-EXPOSURE WATER | RW = Rush Whiten: (5 working days) 75% | SP = Weekend, Holiday | I, Holiday | CALL. | harnes |
| SW-SURFACE WATER PW-POOL WATER | | STAT" = Less than 48 hours | han 48 hours | CALL | The same of the sa |
| WW-WASTE WATER | * Please call, expedited service not available for all testing | | | 06-1 O-E0435 Issue 5 | 06-1 O-F0435 Issue 5.0 Effective Date: 2016-01-20 |

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agree to in writing by EEA.

Page 7 of 13



Eurofins Eaton Analytical

Run Log

| - | 23/ |
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| | Method: |
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| | Sample Site Instrument ID OS CY | | Calibration File 061316M537a.mdb |
|------------|---------------------------------|------------------|-------------------------------------|
| | RW CY | 06/13/2016 23:13 | 061316M537a.mdb |
| | RW | 06/13/2016 23:44 | 061316M537a.mdb |
| | RW | 06/14/2016 00:15 | 061316M537a.mdb |
| WW007- | 0616 DW CY | 06/14/2016 04:21 | 061316M537a.mdb |
| WW011-0616 | '616 DW CY | 06/14/2016 04:52 | 061316M537a.mdb |
| WW011 | -0616 DW CY | 06/14/2016 05:22 | 061316M537a.mdb |
| WW007-06 | '6/FTB RW CY | 06/14/2016 07:58 | 061316M537a.mdb |
| WW011-06 | :16/FTB RW CY | 06/14/2016 08:29 | 061316M537a,mdb |
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| C. C | Sample Type | Analyte | Method | MRL | Client ID | Result Flag | Amount | Target | Units | % Recovery | Recovery Limits | RPD | RPD | Dil | Extracted | Analyzed | EEA ID# |
|--|----------------|--------------------------------------|--------|-----|-----------|--|----------|---------|-------|---------------|--------------------|-----|-----|------|------------------|------------------|------------|
| Report 10-10-10-10-10-10-10-10-10-10-10-10-10-1 | CCL | IS-PFOA-13C2 | 537 | N/A | - | | 9566.10 | 9566.1 | ng/L | 100 | 50 - 150 | 1 | 1 | 1.0 | 06/09/2016 10:36 | 06/13/2016 22:12 | 3469584 |
| Servicianti (SF 17) (M) — | ರಂ | IS-PFOS-13C4 | 537 | N/A | - | | 6489.64 | 6489.64 | ng/L | 100 | 50 - 150 | 1 | 1 | 1.0 | 06/09/2016 10:36 | 06/13/2016 22:12 | 3469584 |
| Operation of the control of | 7 CC | SS-PFDA-13C2 | 537 | A/A | - | | 98.8500 | 100 | ng/L | 66 | 70 - 130 | 1 | i | 1.0 | 06/09/2016 10:36 | 06/13/2016 22:12 | 3469584 |
| Control | CCL | SS-PFHxA-13C2 | 537 | N/A | - | | 49.6929 | 50.0 | ng/L | 66 | 70 - 130 | 1 | 1 | 1.0 | 06/09/2016 10:36 | 06/13/2016 22:12 | 3469584 |
| Septimination of the control | 700 | Perfluorobutanesulfonic acid (PFBS) | 537 | 0.6 | - | | 9.0939 | 9.0 | ng/L | 101 | 50 - 150 | 1 | 1 | 1.0 | 06/09/2016 10:36 | 06/13/2016 22:12 | 3469584 |
| STATE S | CCL | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | - | | 0.9852 | 1.0 | ng/L | 66 | 50 - 150 | 1 | 1 | 1.0 | 06/09/2016 10:36 | 06/13/2016 22:12 | 3469584 |
| Management and Part CCL | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | 1 | | 2.7139 | 3.0 | ng/L | 06 | 50 - 150 | 1 | 1 | 1.0 | 06/09/2016 10:36 | 06/13/2016 22:12 | 3469584 |
| National Property State | CCL | Perfluorononanoic acid (PFNA) | 537 | 2.0 | l | | 1.8611 | 2.0 | ng/L | 93 | 50 - 150 | ١ | ١ | 1.0 | 06/09/2016 10:36 | 06/13/2016 22:12 | 3469584 |
| Particle CCL | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | 1 | | 3,6931 | 4.0 | ng/L | 92 | 50 - 150 | 1 | ı | 1.0 | 06/09/2016 10:36 | 06/13/2016 22:12 | 3469584 |
| Spy Physical Street, 122 Str.et NA — 100710 Stocks Physical Street, 122 Str.et NA — 100710 Str.et NA — 100710 Str.et NA — 1 Str.et NA — 1 Str.et NA — 1 Str.et NA — 1 Str.et NA | 700 | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | 1 | | 1.9016 | 2.0 | ng/L | 96 | 50 - 150 | ١ | 1 | 1.0 | 06/09/2016 10:36 | 06/13/2016 22:12 | 3469584 |
| Systychistoty 687 68.4 68.4 69.1 69.2 69.1 69.2 | LRB | IS-PFOA-13C2 | 537 | N/A | 1 | | 10187.10 | 9566.1 | ng/L | 106 | 50 - 150 | .1 | 1 | 0.99 | 06/13/2016 07:29 | 06/13/2016 23:13 | 3469579 |
| SSPEPDL-LIGGE SIGN NAM — — — — — — — — — — — — — — — — — — — | LRB | IS-PFOS-13C4 | 537 | N/A | - | | 7065.88 | 6489.64 | ng/L | 109 | 50 - 150 | 1 | ı | 66'0 | 06/13/2016 07:29 | 06/13/2016 23:13 | 3469579 |
| Systematical state (SPES) 6470 640 </td <td>LRB</td> <td>SS-PFDA-13C2</td> <td>537</td> <td>A/N</td> <td></td> <td></td> <td>96.7936</td> <td>100</td> <td>ng/L</td> <td>86</td> <td>70-130</td> <td>1</td> <td>ı</td> <td>0.99</td> <td>06/13/2016 07:29</td> <td>06/13/2016 23:13</td> <td>3469579</td> | LRB | SS-PFDA-13C2 | 537 | A/N | | | 96.7936 | 100 | ng/L | 86 | 70-130 | 1 | ı | 0.99 | 06/13/2016 07:29 | 06/13/2016 23:13 | 3469579 |
| Accordance and (PFNA) SST 10 - 10 - <td>LRB</td> <td>SS-PFHxA-13C2</td> <td>537</td> <td>N/A</td> <td>1</td> <td></td> <td>49.3673</td> <td>20.0</td> <td>ng/L</td> <td>92</td> <td>70 - 130</td> <td>1</td> <td>ı</td> <td>66.0</td> <td>06/13/2016 07:29</td> <td>06/13/2016 23:13</td> <td>3469579</td> | LRB | SS-PFHxA-13C2 | 537 | N/A | 1 | | 49.3673 | 20.0 | ng/L | 92 | 70 - 130 | 1 | ı | 66.0 | 06/13/2016 07:29 | 06/13/2016 23:13 | 3469579 |
| Accordance in the control of PH-IADA SST 1.0 - | LRB | Perfluorobutanesulfonic acid (PFBS) | 537 | 0.6 | - | ٧ | 0.6 | | ng/L | ı | ı | 1 | ı | 66.0 | 06/13/2016 07:29 | 06/13/2016 23:13 | 3469579 |
| Participation Participatio | ă | Derfluorobentanolo acid (PEHDA) | 537 | 10 | 1 | ٧ | 1.0 | | ng/L | 1 | 1 | ı | 1 | 66.0 | 06/13/2016 07:29 | 06/13/2016 23:13 | 3469579 |
| Participation Participatio | 1 RB | Perfluctohexanesulfonic acid (PFHxS) | 537 | 3.0 | 1 | v | 3.0 | | ng/L | 1 | 1 | 1 | ı | 0.99 | 06/13/2016 07:29 | 06/13/2016 23:13 | 3469579 |
| Intercontant e platique (PPCA) SST A | 80 | Desgliotopopopologicacid (DENA) | 537 | 2.0 | 1 | ٧ | 2.0 | | ng/L | 1 | I | 1 | 1 | 66.0 | 06/13/2016 07:29 | 06/13/2016 23:13 | 3469579 |
| Septemble Sept | | Parfinmentane sulfonate (PEOS) | 537 | 4.0 | | v | 4.0 | | ng/L | 1 | 1 | 1 | ı | 66.0 | 06/13/2016 07:29 | 06/13/2016 23:13 | 3469579 |
| Sample S | 2 | Parflioroctanoic acid (PEOA) | 537 | 2.0 | 1 | ٧ | 2.0 | | ng/L | 1 | 1 | 1 | ı | 66.0 | 06/13/2016 07:29 | 06/13/2016 23:13 | 3469579 |
| Sample S |) ē | IS-PEOA-13C2 | 537 | N/A | | A COLUMN TO THE PART OF THE PA | 9868.31 | 9566.1 | ng/L | 103 | 50 - 150 | 1 | 1 | 1.0 | 06/13/2016 07:29 | 06/13/2016 23:44 | 3469580 |
| SSP-PDA-15C2 SSS NA — 97.4556 100 mgL 97 70-150 — — 10 601-32016 07.28 | ā | IS-DEOS-1304 | 537 | A/N | 1 | | 6842.60 | 6489.64 | ng/L | 105 | 50 - 150 | 1 | 1 | 1.0 | 06/13/2016 07:29 | 06/13/2016 23:44 | 3469580 |
| SSPEPTIAL SST NA — 4.8 BRTS SOD mgL 100 70-150 — 10 06132016 07.28 | E | SS-PEDA-13C2 | 537 | N/A | | | 97.4555 | 100 | ng/L | 76 | 70 - 130 | 1 | 1 | 1.0 | 06/13/2016 07:29 | 06/13/2016 23:44 | 3469580 |
| Lucorbulamesulfunic acid (PFES) SST 8.0 — 1.0 0.0 1.0 0.1 1.0 0.1 1.0 0.1 1.0 0.1 1.0 0.1 1.0 0.1 1.0 0.1 1.0 0.1 1.0 0.1 1.0 0.1 1.0 0.1 1.0 0.1 1.0 0.1 1.0 0.1 1.0 0.1 1.0 0.1 1.0 0.1 1.0 0.1 1.0 0.1 0. | FBL | SS-PFHXA-13C2 | 537 | N/A | | | 49.8676 | 50.0 | ng/L | 100 | 70 - 130 | 1 | 1 | 1.0 | 06/13/2016 07:29 | 06/13/2016 23:44 | 3469580 |
| Incorderplanoic acid (PFHs) 537 1,0 — 1,0 mg/L 100 </td <td>FBL</td> <td>Perfluorobutanesulfonic acid (PFBS)</td> <td>537</td> <td>9.0</td> <td>1</td> <td></td> <td>8.3654</td> <td>0.6</td> <td>ng/L</td> <td>63</td> <td>50 - 150</td> <td>!</td> <td>1</td> <td>1.0</td> <td>06/13/2016 07:29</td> <td>06/13/2016 23:44</td> <td>3469580</td> | FBL | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | 1 | | 8.3654 | 0.6 | ng/L | 63 | 50 - 150 | ! | 1 | 1.0 | 06/13/2016 07:29 | 06/13/2016 23:44 | 3469580 |
| Representation and (PFNA) 537 3.0 — 4.0 61.0 61.0 61.0 61.0 61.32016 67.28 61.32016 67.28 Inhortochannic acid (PFNA) 537 2.0 — 1.8110 2.0 mgL 61.0 61.0 61.0 61.32016 67.28 61.32016 67.28 Inhortochannic acid (PFNA) 537 4.0 — 4.0 mgL 61.0 61.0 61.0 61.32016 67.28 61.32016 67.28 Inhortochannic acid (PFNA) 537 4.0 — 4.0 mgL 88 50.150 — 1.0 61.32016 67.28 61.32016 67.28 Inhortochannic acid (PFNA) 537 NA — 1.77845 7.0 mgL 89 50.150 — 1.0 641.32016 67.28 641.32016 67.28 Isspecial acid (PFNA) 537 NA — 1.0 661.32016 67.28 60.150 — 1.0 641.32016 67.28 641.32016 67.28 Isspecial acid (PFNA) 537 NA — 1.0 661.3201 — | FBL | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | 1 | | 0.7970 | 1.0 | ng/L | 80 | 50 - 150 | 1 | 1 | 1.0 | 06/13/2016 07:29 | 06/13/2016 23:44 | 3469580 |
| Incordinate (PTGA) S37 LO L18110 2.0 ng/L 85 150 LO 1 0 1.13 | FBL | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | - | | 2.4479 | 3.0 | ng/L | 82 | 50 - 150 | 1 | 1 | 1.0 | 06/13/2016 07:29 | 06/13/2016 23:44 | 3469580 |
| Numbroodanote acid (PFCA) SST A.0 A.0 A.0 A.0 A.0 A.0 B. B. B. B. B. B. B. | FBL | Perfluorononanoic acid (PFNA) | 537 | 2.0 | | | 1.8110 | 2.0 | ng/L | 9 | 50 - 150 | 1 | 1 | 1.0 | 06/13/2016 07:29 | 06/13/2016 23:44 | 3469580 |
| Inchronoctanoic acid (PFOA) 537 2.0 — 1.7846 2.0 ngL 66 - 150 — 1.0 66/13/2016 07.29< | FBL | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | 1 | | 3.4043 | 4.0 | ng/L | 85 | 50 - 150 | 1 | ŀ | 1.0 | 06/13/2016 07:29 | 06/13/2016 23:44 | 3469580 |
| SSPFDA-13C2 | FBL | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | 1 | | 1.7845 | 2.0 | ng/L | 68 | 50 - 150 | 1 | ı | 1.0 | 06/13/2016 07:29 | 06/13/2016 23:44 | 3469580 |
| IS-PFOS-13C4 S37 NA — 9860.94 ng/L 10 67.150 — 1.0 06/13/2016 07.29 06/14/2016 00.15 SS-PFDA-13C2 537 NA — 92.3820 100 ng/L 92 70.130 — 1.0 06/13/2016 07.29 06/14/2016 00.15 SS-PFDA-13C2 537 NA — 47.1521 500 ng/L 94 70.130 — 1.0 06/13/2016 07.29 06/14/2016 00.15 norbularesulfonic acid (PFIAC) 537 1.0 — 1.0 10 70.130 — 1.0 06/13/2016 07.29 06/14/2016 00.15 norbusanesulfonic acid (PFIAC) 537 1.0 — 1.0 1.0 06/13/2016 07.29 06/14/2016 00.15 norbusanesulfonic acid (PFIAC) 537 3.0 — 1.0 1.0 06/13/2016 07.29 06/14/2016 00.15 norbusanesulfonic acid (PFIAC) 537 3.0 — 1.0 1.0 06/13/2016 07.29 06/14/2016 00.15 norbusanesulfonic acid (PFIAC) | FBM | IS-PFOA-13C2 | 537 | N/A | *** | | 10290.20 | 9566.1 | ng/L | 108 | 50 - 150 | 1 | 1 | 1,0 | 06/13/2016 07:29 | 06/14/2016 00:15 | 3469581 |
| SS-PFDA-13C2 S37 NA — 92.3820 100 ng/L 94 70-130 — 1.0 06/13/2016 07.29 06/14/2016 00.15 SS-PFDA-13C2 537 NA — 47.1521 50.0 ng/L 94 70-130 — 1.0 06/13/2016 07.29 06/14/2016 00.15 crobutanesulfonic acid (PFIAA) 537 1,0 — 1,0 10 70-130 — 1.0 06/13/2016 07.29 06/14/2016 00.15 nuorobezanesulfonic acid (PFIAA) 537 1,0 — 1,0 10 1,0 06/13/2016 07.29 06/14/2016 00.15 nuorobezanesulfonic acid (PFIAA) 537 2,0 — 1,0 1,0 1,0 06/13/2016 07.29 06/14/2016 00.15 nuorocaane sulfonate (PFIAA) 537 2,0 — 1,0 1,0 06/13/2016 07.29 06/14/2016 00.15 nuorocaane sulfonate (PFIAA) 537 4,0 — 1,0 1,0 06/13/2016 07.29 06/14/2016 00.15 nuorocaane sulfonate (PFIAA) 537 4,0 | FBM | IS-PFOS-13C4 | 537 | N/A | *** | | 6860.94 | 6489.64 | ng/L | 106 | 50 - 150 | 1 | ı | 1.0 | 06/13/2016 07:29 | 06/14/2016 00:15 | 3469581 |
| SS-PFHXA-13C2 S37 N/A — 47.1521 50.0 ng/L 94 70-130 — 1.0 66/13/2016 07.29 06/13/2016 | FBM | SS-PFDA-13C2 | 537 | N/A | - | | 92.3820 | 100 | ng/L | 92 | 70 - 130 | ı | 1 | 1.0 | 06/13/2016 07:29 | 06/14/2016 00:15 | 3469581 |
| orobulatinesulfundic acid (PFBS) 537 9.0 — 683.8470 675 ng/L 95 70-130 — 1.0 06/13/2016 07:29 | FBM | SS-PFHxA-13C2 | 537 | N/A | | | 47.1521 | 50.0 | ng/L | 94 | 70 - 130 | 1 | 1 | 1.0 | 06/13/2016 07:29 | 06/14/2016 00:15 | 3469581 |
| Introrobeptanole acid (PFHxS) 537 1.0 — PB.0589 75.0 ng/L 91 70-130 — 1.0 06/13/2016 07:29 06/14/2016 00:15 orobexanesulfonic acid (PFHxS) 537 3.0 — 209.2560 225 ng/L 93 70-130 — 1.0 06/13/2016 07:29 06/14/2016 00:15 Introroccane acid (PFHxS) 537 2.0 — 1.0 1.0 1.0 06/13/2016 07:29 06/14/2016 00:15 Introroccane acid (PFLXS) 537 4.0 — 1.0 1.0 06/13/2016 07:29 06/14/2016 00:15 Introroccane acid (PFCX) 537 4.0 — 1.0 06/13/2016 07:29 06/14/2016 00:15 Introroccane acid (PFCX) 537 4.0 — 1.0 06/13/2016 07:29 06/14/2016 00:15 Introroccane acid (PFCX) 537 2.0 — 1.0 06/13/2016 07:29 06/14/2016 00:15 | FBM | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | 1 | | 638.9470 | 675 | ng/L | 98 | 70 - 130 | 1 | T | 1.0 | 06/13/2016 07:29 | 06/14/2016 00:15 | 3469581 |
| condexamesulfunds acid (PFNAS) 537 3.0 — 209.2560 225 ng/L 93 70-130 — 1.0 06/13/2016 07:29 06/14/2016 00:15 Indococlame sulformed card (PFNAS) 537 4.0 — 1.0 1.0 1.0 06/13/2016 07:29 06/14/2016 00:15 Indococlame sulformed card (PFOA) 537 4.0 — 1.0 1.0 06/13/2016 07:29 06/14/2016 00:15 Influencoclamoic acid (PFOA) 537 2.0 — 1.0 06/13/2016 07:29 06/14/2016 00:15 | FBM | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | - | | 68.0589 | 75.0 | ng/L | 16 | 70 - 130 | 1 | 1 | 1.0 | 06/13/2016 07:29 | 06/14/2016 00:15 | 3469581 |
| Perfluoronomanoic acid (PFNA) 537 2.0 — 138.7810 150 ng/L 93 70 - 130 — 1.0 06/13/2016 07:29 06/14/2016 00:15 Perfluorooctanoic acid (PFOA) 537 2.0 — 140,5860 150 150 170 - 130 — 1,0 06/13/2016 07:29 06/14/2016 00:15 | DFBM | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | - | | 209.2560 | 225 | ng/L | 83 | 70 - 130 | 1 | 1 | 1.0 | 06/13/2016 07:29 | 06/14/2016 00:15 | 3469581 |
| Iuorocctane sulforate (PFOS) 537 4.0 — 275.5740 300 ng/L 92 70 - 130 — 1.0 06/13/2016 07:29 06/14/2016 00:15 influorocctanoic acid (PFOA) 537 2.0 — 140,5860 150 ng/L 94 70 - 130 — 1,0 06/13/2016 07:29 06/14/2016 00:15 | Me | Perfluorononanoic acid (PFNA) | 537 | 2.0 | - | | 138.7810 | 150 | ng/L | 93 | 70 - 130 | ı | 1 | 1.0 | 06/13/2016 07:29 | 06/14/2016 00:15 | 3469581 |
| entluorooctanoic acid (PFOA) 537 2.0 — 1,0 06/13/2016 07/29 06/14/2016 00/15 | DFBM | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | - | | 275,5740 | 300 | ng/L | 92 | 70 - 130 | 1 | 1 | 1.0 | 06/13/2016 07:29 | 06/14/2016 00:15 | 3469581 |
| | PEBM. | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | 1 | | 140.5860 | 150 | ng/L | 96 | 70 - 130 | 1 | 1 | 0,1 | 06/13/2016 07:29 | 06/14/2016 00:15 | 3469581 |

EEA Run ID 216946 / EEA Report # 364607

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|-------------------|--|--------|------|------------------|---------|----------|---|--------|----------|----------|-------------|-----|--------|------------------|------------------|---------|
| Sample Type | Analyte | Method | MKL | Client ID | Flag | Amount | larget | SIIID | Recovery | Limits | = | | Factor | Extracted | Allalyzeu | # D # |
| FS | IS-PFOA-13C2 | 537 | N/A | WW007-0616 | | 10369.80 | 9566.1 | ng/L | 108 | 50 - 150 | 1 | ı | 96.0 | 06/13/2016 07:29 | 06/14/2016 04:21 | 3463547 |
| FS | IS-PFOS-13C4 | 537 | N/A | WW007-0616 | | 6785.91 | 6489.64 | ng/L | 105 | 50 - 150 | 1 | 1 | 96'0 | 06/13/2016 07:29 | 06/14/2016 04:21 | 3463547 |
| FS | SS-PFDA-13C2 | 537 | A/A | WW007-0616 | | 88.2257 | 100 | ng/L | 92 | 70 - 130 | 1 | i | 0.96 | 06/13/2016 07:29 | 06/14/2016 04:21 | 3463547 |
| FS | SS-PFHxA-13C2 | 537 | A/A | WW007-0616 | | 45.0856 | 50.0 | ng/L | 94 | 70 - 130 | 1 | 1 | 0.96 | 06/13/2016 07:29 | 06/14/2016 04:21 | 3463547 |
| FS | Perfluorobutanesulfonic acid (PFBS) | 537 | 0.6 | WW007-0616 | ٧ | 9.0 | | ng/L | 1 | ı | 1 | 1 | 96'0 | 06/13/2016 07:29 | 06/14/2016 04:21 | 3463547 |
| FS | Perfluoroheptanoic acid (PFHpA) | 537 | 1,0 | WW007-0616 | | 36 | | ng/L | 1 | 1 | 1 | 1 | 96.0 | 06/13/2016 07:29 | 06/14/2016 04:21 | 3463547 |
| FS | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | WW007-0616 | | 150 | | ng/L | ı | ı | 1 | 1 | 96.0 | 06/13/2016 07:29 | 06/14/2016 04:21 | 3463547 |
| FS | Perfluorononanoic acid (PFNA) | 537 | 2.0 | WW007-0616 | v | 2.0 | | ng/L | ı | ı | I | 1 | 96.0 | 06/13/2016 07:29 | 06/14/2016 04:21 | 3463547 |
| FS | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | WW007-0616 | | 1 | | ng/L | 1 | ١ | 1 | ı | 0.96 | 06/13/2016 07:29 | 06/14/2016 04:21 | 3463547 |
| FS | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | WW007-0616 | | 06 | | ng/L | 1 | 1 | 1 | ı | 96.0 | 06/13/2016 07:29 | 06/14/2016 04:21 | 3463547 |
| FS | IS-PFOA-13C2 | 537 | N/A | WW011-0616 | | 10048.40 | 9566.1 | ng/L | 105 | 50 - 150 | 1 | 1 | 0.94 | 06/13/2016 07:29 | 06/14/2016 04:52 | 3463549 |
| FS | IS-PFOS-13C4 | 537 | N/A | WW011-0616 | | 6790.72 | 6489.64 | ng/L | 105 | 50 - 150 | 1 | ı | 0.94 | 06/13/2016 07:29 | 06/14/2016 04:52 | 3463549 |
| FS | SS-PFDA-13C2 | 537 | N/A | WW011-0616 | | 87.9710 | 100 | ng/L | 46 | 70-130 | 1 | ì | 0.94 | 06/13/2016 07:29 | 06/14/2016 04:52 | 3463549 |
| FS | SS-PFHxA-13C2 | 537 | N/A | WW011-0616 | | 46,3515 | 50.0 | ng/L | 8 | 70 - 130 | 1 | ı | 0.94 | 06/13/2016 07:29 | 06/14/2016 04:52 | 3463549 |
| FS | Perfluorobutanesulfonic acid (PFBS) | 537 | 0.6 | WW011-0616 | | 10 | | ng/L | 1 | 1 | 1 | 1 | 0.94 | 06/13/2016 07:29 | 06/14/2016 04:52 | 3463549 |
| FS | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | WW011-0616 | | Ŧ | | ngi/L | 1 | 1 | | 1 | 0.94 | 06/13/2016 07:29 | 06/14/2016 04:52 | 3463549 |
| FS | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | WW011-0616 | | 21 | | ng/L | 1 | 1 | 1 | 1 | 0.94 | 06/13/2016 07:29 | 06/14/2016 04:52 | 3463549 |
| FS | Perfluoronanoic acid (PFNA) | 537 | 2.0 | WW011-0616 | ٧ | 2.0 | | ng/L | 1 | ı | 1 | 1 | 0.94 | 06/13/2016 07:29 | 06/14/2016 04:52 | 3463549 |
| FS | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | WW011-0616 | ٧ | 4.0 | | ng/L | | 1 | 1 | 1 | 0.94 | 06/13/2016 07:29 | 06/14/2016 04:52 | 3463549 |
| E S | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | WW011-0616 | | 4.9 | | ng/L | I | ı | 1 | ı | 0.94 | 06/13/2016 07:29 | 06/14/2016 04:52 | |
| FD | IS-PFOA-13C2 | 537 | N/A | WW011-0616 | | 10159.10 | 9566.1 | ng/L | 106 | 50 - 150 | 1 | 1 | 0.93 | 06/13/2016 07:29 | 06/14/2016 05:22 | 3469578 |
| FD | IS-PFOS-13C4 | 537 | N/A | WW011-0616 | | 6931.31 | 6489.64 | ng/L | 107 | 50 - 150 | 1 | 1 | 0.93 | 06/13/2016 07:29 | 06/14/2016 05:22 | 3469578 |
| D. | SS-PFDA-13C2 | 537 | N/A | WW011-0616 | | 86.1867 | 100 | ng/L | 83 | 70 - 130 | 1 | ١ | 0.93 | 06/13/2016 07:29 | 06/14/2016 05:22 | 3469578 |
| FD | SS-PFHxA-13C2 | 537 | A/N | WW011-0616 | | 46.3190 | 50.0 | ng/L | 100 | 70 - 130 | 1 | 1 | 0.93 | 06/13/2016 07:29 | 06/14/2016 05:22 | 3469578 |
| FD | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | WW011-0616 | | 10.3 | | ng/L | 1 | 1 | 1.0 | 30 | 0.93 | 06/13/2016 07:29 | 06/14/2016 05:22 | 3469578 |
| FD | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | VVVV011-0616 | | 10.9 | | ng/L | ı | ı | 1.6 | 30 | 0.93 | 06/13/2016 07:29 | 06/14/2016 05:22 | 3469578 |
| 75 | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | WW011-0616 | | 21.2 | | ng/L | ı | 1 | 0.2 | 30 | 0.93 | 06/13/2016 07:29 | 06/14/2016 05:22 | 3469578 |
| FD | Perfluoronanoic acid (PFNA) | 537 | 2.0 | WW011-0616 | ٧ | 2.0 | | ng/L | 1 | 1 | 1 | ī | 0.93 | 06/13/2016 07:29 | 06/14/2016 05:22 | 3469578 |
| FD | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | WW011-0616 | v | 4.0 | | ng/L | 1 | 1 | 1 | 1 | 0.93 | 06/13/2016 07:29 | 06/14/2016 05:22 | 3469578 |
| FD | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | WW011-0616 | | 4.98 | | ng/L | 1 | ı | 6.0 | 30 | 0.93 | 06/13/2016 07:29 | 06/14/2016 05:22 | 3469578 |
| FTB | IS-PFOA-13C2 | 537 | N/A | WW007-0616/FTB | | 9921.92 | 9566.1 | ng/L | 104 | 50 - 150 | Ŧ | 1 | 0.93 | 06/13/2016 07:29 | 06/14/2016 07:58 | 3463548 |
| FTB | IS-PFOS-13C4 | 537 | A/N | WW007-0616/FTB | | 6845.90 | 6489.64 | ng/L | 105 | 50 - 150 | 1 | 1 | 0.93 | 06/13/2016 07:29 | 06/14/2016 07:58 | 3463548 |
| FIB | SS-PFDA-13C2 | 537 | N/A | WW007-0616/FTB | | 94,6512 | 100 | ng/L | 102 | 70 - 130 | 1 | 1 | 0.93 | 06/13/2016 07:29 | 06/14/2016 07:58 | 3463548 |
| FT8 | SS-PFHxA-13C2 | 537 | N/A | WW007-0616/FTB | | 46.1325 | 20.0 | ng/L | 66 | 70 - 130 | 1 | ı | 0.93 | 06/13/2016 07:29 | 06/14/2016 07:58 | 3463548 |
| FTB | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | WW007-0616/FTB | ٧ | 9.0 | | ng/L | - | 1 | The same of | ı | 0.93 | 06/13/2016 07:29 | 06/14/2016 07:58 | 3463548 |
| FTB | Perfluorohaptanoic acid (PFHpA) | 537 | 1.0 | WW007-0616/FTB | ٧ | 1.0 | | ng/L | 1 | 1 | 1 | 1 | 0.93 | 06/13/2016 07:29 | 06/14/2016 07:58 | 3463548 |
| FT8 | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | WW007-0616/FTB | ٧ | 3.0 | | ng/L | 1 | 1 | 1 | 1 | 0.93 | 06/13/2016 07:29 | 06/14/2016 07:58 | 3463548 |
| 8 | Perfluorononanoic acid (PFNA) | 537 | 2.0 | WW007-0616/FTB | ٧ | 2.0 | A MARKET CO. TO STATE OF THE PARTY OF T | ng/L | 1 | 1 | 1 | 1 | 0.93 | 06/13/2016 07:29 | 06/14/2016 07:58 | 3463548 |
| e E ag | Perfluoroctane sulfonate (PFOS) | 537 | 4.0 | WW007-0616/FTB | ٧ | 4.0 | | ng/L | 1 | 1 | 1 | ī | 0.93 | 06/13/2016 07:29 | 06/14/2016 07:58 | 3463548 |
| В | Perfluerooctanoic acid (PFOA) | 537 | 2.0 | WW007-0616/FTB | ٧ | 2.0 | | ng/L | 1 | 1 | 1 | ī | 0.93 | 06/13/2016 07:29 | 06/14/2016 07:58 | 3463548 |
| The second second | The second secon | 100 | ALIA | WAAAO11-0616/ETB | 200 | 9525 90 | 9566.1 | l/ou | 100 | 50 - 150 | 1 | i | 6.0 | 06/13/2016 07:29 | 06/14/2016 08:29 | 3463550 |

| Sample Type | Analyte | Method | MRL | Client ID | Result | Amount | Target | Units | % Recovery | Recovery Limits | RPD | RPD Limit | Dil Factor | Extracted | Analyzed | EEA ID# |
|----------------|--------------------------------------|--------|-----|--|--------|----------|---------|-------|---------------|--------------------|-----|--------------|---------------|------------------|------------------|------------|
| FTB | IS-PFOS-13C4 | 537 | N/A | WW011-0616/FTB | | 6564.32 | 6489.64 | ng/L | 101 | 50 - 150 | 1 | 1 | 6.0 | 06/13/2016 07:29 | 06/14/2016 08:29 | 3463550 |
| FTB | SS-PFDA-13C2 | 537 | N/A | WW011-0616/FTB | | 89.2607 | 100 | ng/L | 66 | 70 - 130 | 1 | 1 | 6.0 | 06/13/2016 07:29 | 06/14/2016 08:29 | 3463550 |
| FTB | SS-PFHxA-13C2 | 537 | N/A | WW011-0616/FTB | | 45.1436 | 50.0 | ng/L | 100 | 70 - 130 | 1 | 1 | 6.0 | 06/13/2016 07:29 | 06/14/2016 08:29 | 3463550 |
| FTB | Perfluorobutanesulfonic acid (PFBS) | 537 | 0.6 | WW011-0616/FTB | v | 9.0 | | ng/L | 1 | 1 | ı | 1 | 6'0 | 06/13/2016 07;29 | 06/14/2016 08:29 | 3463550 |
| FTB | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | WW011-0616/FTB | v | 1.0 | | ng/L | 1 | 1 | 1 | 1 | 6.0 | 06/13/2016 07:29 | 06/14/2016 08:29 | 3463550 |
| FTB | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | WW011-0616/FTB | ٧ | 3.0 | | ng/L | 1 | 1 | 1 | ı | 6.0 | 06/13/2016 07:29 | 06/14/2016 08:29 | 3463550 |
| FTB | Perfluorononanoic acid (PFNA) | 537 | 2.0 | WW011-0616/FTB | ٧ | 2.0 | | ng/L | 1 | ı | 1 | 1 | 6.0 | 06/13/2016 07:29 | 06/14/2016 08:29 | 3463550 |
| FTB | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | WW011-0616/FTB | ٧ | 4.0 | | ng/L | 1 | 1 | 1 | Ī | 6.0 | 06/13/2016 07:29 | 06/14/2016 08:29 | 3463550 |
| FTB | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | WW011-0616/FTB | ٧ | 2.0 | | ng/L | 1 | ı | ı | ı | 6.0 | 06/13/2016 07:29 | 06/14/2016 08:29 | 3463550 |
| CCM | IS-PFOA-13C2 | 537 | N/A | 1 | | 9554.19 | 9554.19 | ng/L | 100 | 50 - 150 | 1 | 1 | 0,1 | 06/09/2016 10:36 | 06/14/2016 10:32 | 3469585 |
| CCM | IS-PF0S-13C4 | 537 | N/A | | | 6595.41 | 6595.41 | ng/L | 100 | 50 - 150 | 1 | 1 | 1,0 | 06/09/2016 10:36 | 06/14/2016 10:32 | 3469585 |
| CCM | SS-PFDA-13C2 | 537 | N/A | - | | 98.4403 | 100 | ng/L | 86 | 70 - 130 | 1 | 1 | 1.0 | 06/09/2016 10:36 | 06/14/2016 10:32 | 3469585 |
| CCM | SS-PFHxA-13C2 | 537 | N/A | | | 50,9998 | 20.0 | ng/L | 102 | 70-130 | 1 | 1 | 1,0 | 06/09/2016 10:36 | 06/14/2016 10:32 | 3469585 |
| CCM | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | - | | 704,4430 | 675 | ng/L | 104 | 70 - 130 | 1 | 1 | 1.0 | 06/09/2016 10:36 | 06/14/2016 10:32 | 3469585 |
| CCM | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | - | | 74.5242 | 75.0 | ng/L | 8 | 70 - 130 | 1 | 1 | 1.0 | 06/09/2016 10:36 | 06/14/2016 10:32 | 3469585 |
| CCM | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | | | 226.4770 | 225 | ng/L | 101 | 70-130 | 1 | 1 | 1.0 | 06/09/2016 10:36 | 06/14/2016 10:32 | 3469585 |
| CCM | Perfluorononanoic acid (PFNA) | 537 | 2.0 | - | | 150.5510 | 150 | ng/L | 100 | 70-130 | 1 | I. | 1.0 | 06/09/2016 10:36 | 06/14/2016 10:32 | 3469585 |
| CCM | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | - | | 298,8770 | 300 | ng/L | 100 | 70 - 130 | I | 1 | 1.0 | 06/09/2016 10:36 | 06/14/2016 10:32 | 3469585 |
| CCM | Perfluoroctanoic acid (PFOA) | 537 | 2.0 | AND THE RESERVE THE PROPERTY OF THE PROPERTY O | Links | 150.3020 | 150 | ng/L | 100 | 70 - 130 | 1 | ł | 1.0 | 06/09/2016 10:36 | 06/14/2016 10:32 | 3469585 |

| | | Sample Type Key | | |
|--------------|----------------------------|-----------------|-------------|--|
| Type (Abbr.) | Sample Type | Type (Abbr.) | Sample Type | |
| CCL | Continuing Calibration Low | | | |
| CCM | Continuing Calibration Mid | | | |
| FD | Field Duplicate | | | |
| FS | Field Sample | | | |
| FTB | Field Trip Blank | | 4 | |
| FBL | Fortified Blank Low | | | |
| FBM | Fortified Blank Mid | | | |
| LRB | Laboratory Reagent Blank | | | |

END OF REPORT

EAILE-0802

eurofins 🛟

Eaton Analytical

Order # 298055 Batch #

110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207

30 CC MATRIX CODE to # OF CONTAINERS CHLORINATED 9 #Od Page _ YES SAMPLE REMARKS Uells 7411 STATE (sample origin) | PROJECT NAME WellAeld Eveletter FI. Drum SOURCE WATER Leil 25 method 53 537 CHAIN OF CUSTODY RECORD C **TEST NAME** method POPULATION SERVED method methol PFCS PFCS PECS PECS No Fred OL SAMPLING SITE Yes 100 007 - Cah 1000 20011-0016 2120 SAMPLER (Signature) 11000 2007 COMPLIANCE AM PM xx X Scotte-farbes @ wace Army, mil Scott. @ for bes @ USACE. Army. mil COLLECTION 683 TIME 1637 1637 647 Shaded area for EEA use only D-20-16 2-1-1c 2-m-16 2-11-K www.eurofinsus.com/eaton LAB Number REPORT TO:

2 60 9

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SC

ЗМІТ ФИЛОЯАИЯ ОТ

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| | | | | | | | | The state of the s | T |
|--------------------------------------|--|------------------|--|----------------------------|--|--------------------------------------|---|--|---|
| RELINQUISHED BY:(Signature) | DATE | TIME | TIME RECEIVED BY:(Signature) | DATE | TIME | LAB RESERVES THE RIGHT TO RE | LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NOM-AQUEOUS SAMPLES TO CLIENT | SAMPLES TO CLIENT | |
| | 27n-4 1145 | 1145 | A 80 : 0 1W/: | 00/2/10 | 三 元 | US LAB COMMENTS | | | |
| ac gr | | Md My | 2002 1XC | | AM PM | | | | |
| RELINQUISHED BY:(Signature) | DATE | TIME | TIME RECEIVED BY:(Signature) | DATE | TIME | | | | |
| | | MA | | | AM PM | | | | |
| RELINQUISHED BY:(Signature) | DATE | TIME | TIME RECEIVED FOR LABORATORY BY: | DATE | TIME | CONDITIONS UPON RECEIPT (check one): | :(e | | |
| | | | | | | Iced: Wet/Blue Ar | Ambient °C Upon Receipt | N/A | |
| | | AM PM | | | AM PM | | | | |
| MATRIX CODES: | TURN-ARO | MIT GNU | TURN-AROUND TIME (TAT) - SURCHARGES | | | | | | |
| DW-DRINKING WATER | SW = Standard Written: (15 working days) | Written: (15 v | working days) 0% | IV* = Immediate | IV* = Immediate Verbal: (3 working days) | days) 100% | | | |
| RW-REAGENT WATER | RV* = Rush Verbal: (5 working days) | rbal: (5 workin | %05 (skep 6 | IW* = mmediate | IW* =Immediate Written: (3 working days) | days) 125% | Samples received unannounced with less | with less | |
| GW-GROUND WATER EW-EXPOSURE WATER | RW* = Rush Written: (5 working days) | ritten: (5 worki | ng days) 75% | SP* = Weekend, Holiday | , Holiday | CALL | than 48 hours holding time remaining may | sining may | |
| SW-SURFACE WATER PW-POOI WATER | | | | STAT* = Less than 48 hours | ian 48 hours | CALL | | | |
| WW-WASTE WATER | * Please call | I, expedite | * Please call, expedited service not available for all testing | | | | 06-LO-F0435 Issue 4.0 Effective Date: 2014-05-01 | ective Date: 2014-05-0 | |

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agree to in writing by EEA.



Eaton Analytical

110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207

Batch #

Order# 298055

| Shaded area for EEA use only | A use only | SAMPLER (Signature) | | - | | STATE (sample origin) | PROJECT NAME | #Od | | + |
|---|---|--|---------------|---|--|---|---|--|----------|--------------|
| REPORT 10: | | SAIMPLEN (SIGNALINE) | | | | | 2011 | | | |
| JONESH (alos | 10 | N.S. | | | | | Server | | 9 | |
| Converse Labs | 25 | COMPLIANCE | Yes | ON ON | POPULATION SERVED | SOURCE WATER | Eval. | | SABNIATN | SOUND TIN |
| LAB Number | COLLECTION | AMAS | SAMPLING SITE | | TEST NAME | ME | SAMPLE REMARKS | CHLORINATED | | |
| DATE | TE TIME AM PM | | | | | | | YES NO | + | |
| 91 1/0 | | 100001 - O | 2100 | 7 | Cs method | 0d 537 | | 7 | | |
| 011210 | | 1 | ماعاق | 7 | CIS Wat | (+hud 55/ | | 1 | | |
| (e/2) | x LE01 A17da | WW011 - 0 | 0100 | <u> </u> | C's Method | 14001531 400 537 | | 7 7 | | 3 & 5 O |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| RELINQUISHED BY:(Signature) | DATE TIME | RECEIVED BY:(Signature) | | DATE TIME | LAB COM | LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLENT MENTS | JSED PORTIONS OF NON-A | QUEOUS SAMPLES TO | CLENT | Ш |
| CONTRACT! | (2) (2) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4 | 42 | | AM PM | Į. | | | | | |
| RELINQUISHED BY:(8)grafure) | DATE TIME | RECEIVED BY:(Signature) | | DATE TIME | | | | | | |
| RELINQUISHED BY: (Signature) | DATE TIME | RECEIVED FOR LABORATORY BY: | | DATE TIME | CONDITIONS UPON RECEIPT (check one): | ECEIPT (check one): | °C Upon Receipt | teceipt | NA | |
| MATRIX CODES: | TURN-AROUND TIM | TURN-AROUND TIME (TAT) - SURCHARGES | | ľ | | | | | | |
| DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER | SW = Standard Written: (15 working days) RV* = Rush Verbal: (5 working days) RW* = Rush Written: (5 working days) | 5 working days) 0% ing days) 50% Yeing days) 75% | IV"= SP* | N* = Immediate Verbal: (3 working days) N* =Immediate Written: (3 working days) SP* = Vkeekend, Holiday | working days) 100% working days) 125% CALL | | Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges. | nounced with less ime remaining may charges. | | |
| SW-SURFACE WATER PW-POOL WATER WW-WASTE WATER | * Deace Call expedit | * Please call. expedited service not available for all testing | | STAT* = Less than 48 hours | S | | 200000000000000000000000000000000000000 | | | ş |

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agree to in writing by EEA.





Eaton Analytical

110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207

1 800 332 4345

Laboratory Report

Client: Converse Laboratories

Donna Zang

Attn:

800 Starbuck Ave, Suite B101

Watertown, NY 13601

Report:

367277

Priority:

Standard Written

Status:

Final

PWS ID:

Not Supplied

Lab ELAP #:

11398

| EEA ID# | Client ID | Method | Collected Date / Time | Collected By: | Received Date / Time |
|------------|----------------------|--------|--------------------------|------------------|-------------------------|
| 3491067 | EU16-1094 Range 48 | 537 | 07/12/16 09:50 | Client | 07/13/16 07:30 |
| 3491069 | : EU16-1094 Range 44 | 537 | 07/12/16 10:40 | Client | 07/13/16 07:3 |
| 3491071 | EU16-1094 Range 39 | 537 | 07/12/16 11:15 | Client | 07/13/16 07:30 |
| 3491073 | EU16-1094 Range 35 | 537 | 07/12/16 11:45 | Client | 07/13/16 07:3 |
| 3491075 | EU16-1094 Range 13A | 537 | 07/12/16 12:20 | Client | 07/13/16 07:3 |
| 3491077 | EU16-1094 Range 23 | 537 | 07/12/16 13:15 | Client | 07/13/16 07:3 |
| 3491079 | EU16-1094 2723 | 537 | 07/12/16 13:55 | Client | 07/13/16 07:3 |
| 3491081 | EU16-1094 2792 | 537 | 07/12/16 14:10 | Client | 07/13/16 07:3 |
| 3491083 | EU16-1094 2701 | 537 | 07/12/16 14:25 | Client | 07/13/16 07:3 |
| 3491085 | EU16-1094 4775 | 537 | 07/12/16 14:50 | Client | 07/13/16 07:3 |

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Kelly Trott at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

08/03/2016

Date

Authorized Signature

Converse Laboratories

Report #:

Client Name:

367277

Page 1 of 6

Title

Report #: 367277

Sampling Point: EU16-1094 Range 48

PWS ID: Not Supplied

| Analyte ID# | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
|----------------|--------------------------------------|--------|--------------|------|--------|-------|---------------------|------------------|------------|
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | | 9.0 | < 9.0 | ng/L | 07/22/16 08:45 | 07/24/16 07:14 | 3491067 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | | 1.0 | < 1.0 | ng/L | 07/22/16 08:45 | 07/24/16 07:14 | 3491067 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | | 3.0 | < 3.0 | ng/L | 07/22/16 08:45 | 07/24/16 07:14 | 3491067 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | | 2.0 | < 2.0 | ng/L | 07/22/16 08:45 | 07/24/16 07:14 | 3491067 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 4.0 | < 4.0 | ng/L | 07/22/16 08:45 | 07/24/16 07:14 | 3491067 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | | 2.0 | < 2.0 | ng/L | 07/22/16 08:45 | 07/24/16 07:14 | 3491067 |

Sampling Point: EU16-1094 Range 44

PWS ID: Not Supplied

| 36 F 425 F 53 | | | EEA Met | hods | | | | | |
|----------------|--------------------------------------|--------|--------------|------|--------|-------|---------------------|------------------|------------|
| Analyte ID# | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | | 9.0 | < 9.0 | ng/L | 07/25/16 08:15 | 07/26/16 20:31 | 3491069 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | | 1.0 | < 1.0 | ng/L | 07/25/16 08:15 | 07/26/16 20:31 | 3491069 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | | 3.0 | < 3.0 | ng/L | 07/25/16 08:15 | 07/26/16 20:31 | 3491069 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | | 2.0 | < 2.0 | ng/L | 07/25/16 08:15 | 07/26/16 20:31 | 3491069 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 4.0 | < 4.0 | ng/L | 07/25/16 08:15 | 07/26/16 20:31 | 3491069 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | | 2.0 | < 2.0 | ng/L | 07/25/16 08:15 | 07/26/16 20:31 | 3491069 |

Sampling Point: EU16-1094 Range 39

PWS ID: Not Supplied

| i de la composición | | fillsgebler a | EA Met | hods | | | | | |
|---|--------------------------------------|---------------|--------------|------|--------|-------|---------------------|------------------|------------|
| Analyte ID# | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | | 9.0 | < 9.0 | ng/L | 07/25/16 08:15 | 07/26/16 21:01 | 3491071 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | | 1.0 | < 1.0 | ng/L | 07/25/16 08:15 | 07/26/16 21:01 | 3491071 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | | 3.0 | < 3.0 | ng/L | 07/25/16 08:15 | 07/26/16 21:01 | 3491071 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | | 2.0 | < 2.0 | ng/L | 07/25/16 08:15 | 07/26/16 21:01 | 3491071 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 4.0 | < 4.0 | ng/L | 07/25/16 08:15 | 07/26/16 21:01 | 3491071 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | | 2.0 | < 2.0 | ng/L | 07/25/16 08:15 | 07/26/16 21:01 | 3491071 |

Report #: 367277

Sampling Point: EU16-1094 Range 35

PWS ID: Not Supplied

| | | | EEA Met | hods | a nga asanti. Katangangan salah sa | | | | |
|----------------|--------------------------------------|--------|--------------|------|---------------------------------------|-------|---------------------|------------------|------------|
| Analyte ID# | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | | 9.0 | < 9.0 | ng/L | 07/25/16 08:15 | 07/26/16 22:03 | 3491073 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | <u> </u> | 1.0 | < 1.0 | ng/L | 07/25/16 08:15 | 07/26/16 22:03 | 3491073 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | | 3.0 | < 3.0 | ng/L | 07/25/16 08:15 | 07/26/16 22:03 | 3491073 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | | 2.0 | < 2.0 | ng/L | 07/25/16 08:15 | 07/26/16 22:03 | 3491073 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 4.0 | < 4.0 | ng/L | 07/25/16 08:15 | 07/26/16 22:03 | 3491073 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | | 2.0 | < 2.0 | ng/L | 07/25/16 08:15 | 07/26/16 22:03 | 3491073 |

Sampling Point: EU16-1094 Range 13A

PWS ID: Not Supplied

| Analyte ID# | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
|----------------|--------------------------------------|--------|--------------|------|--------|-------|---------------------|------------------|------------|
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | | 9.0 | < 9.0 | ng/L | 07/25/16 08:15 | 07/26/16 22:34 | 349107 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | | 1.0 | < 1.0 | ng/L | 07/25/16 08:15 | 07/26/16 22:34 | 349107 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | | 3.0 | < 3.0 | ng/L | 07/25/16 08:15 | 07/26/16 22:34 | 349107 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | | 2.0 | < 2.0 | ng/L | 07/25/16 08:15 | 07/26/16 22:34 | 3491075 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 4.0 | < 4.0 | ng/L | 07/25/16 08:15 | 07/26/16 22:34 | 3491075 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | | 2.0 | < 2.0 | ng/L | 07/25/16 08:15 | 07/26/16 22:34 | 349107 |

Sampling Point: EU16-1094 Range 23

PWS ID: Not Supplied

| | | \$1400 E-400 | EA Met | hods 🦠 🖰 | | P. Principle | | to to require to the | |
|----------------|--------------------------------------|--------------|--------------|----------|--------|--------------|---------------------|----------------------|------------|
| Analyte ID# | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | | 9.0 | < 9.0 | ng/L | 07/25/16 08:15 | 07/26/16 23:04 | 3491077 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | | 1.0 | < 1.0 | ng/L | 07/25/16 08:15 | 07/26/16 23:04 | 3491077 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | | 3.0 | < 3.0 | ng/L | 07/25/16 08:15 | 07/26/16 23:04 | 3491077 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | | 2.0 | < 2.0 | ng/L | 07/25/16 08:15 | 07/26/16 23:04 | 3491077 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 4.0 | < 4.0 | ng/L | 07/25/16 08:15 | 07/26/16 23:04 | 3491077 |
| 335-67-1 | Perfluorocctanoic acid (PFOA) | 537 | | 2.0 | < 2.0 | ng/L | 07/25/16 08:15 | 07/26/16 23:04 | 3491077 |

Client Name: Converse Laboratories Report #: 367277

Sampling Point: EU16-1094 2723 PWS ID: Not Supplied

| | | 9.50 | EEA Met | hods | | 4 0 0 0 | | | 7 8 8 4 4 7 6 8 6 |
|-------------------|--------------------------------------|--------|--------------|------|--------|---------|---------------------|------------------|----------------------|
| Anaiyte ID# | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | | 9.0 | < 9.0 | ng/L | 07/25/16 08:15 | 07/27/16 03:10 | 3491079 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | — | 1.0 | < 1.0 | ng/L | 07/25/16 08:15 | 07/27/16 03:10 | 3491079 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | | 3.0 | < 3.0 | ng/L | 07/25/16 08:15 | 07/27/16 03:10 | 3491079 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | | 2.0 | < 2.0 | ng/L | 07/25/16 08:15 | 07/27/16 03:10 | 3491079 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 4.0 | < 4.0 | ng/L | 07/25/16 08:15 | 07/27/16 03:10 | 3491079 |
| 335-67 <i>-</i> 1 | Perfluorooctanoic acid (PFOA) | 537 | | 2.0 | < 2.0 | ng/L | 07/25/16 08:15 | 07/27/16 03:10 | 3491079 |

Sampling Point: EU16-1094 2792 PWS ID: Not Supplied

| nga ayang da Agamatan | | | EEA Met | hods | | | | | |
|--------------------------|--------------------------------------|--------|--------------|------|--------|-------|---------------------|------------------|------------|
| Analyte ID# | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | | 9.0 | < 9.0 | ng/L | 07/25/16 08:15 | 07/27/16 03:41 | 3491081 |
| 375-85- 9 | Perfluoroheptanoic acid (PFHpA) | 537 | | 1.0 | < 1.0 | ng/L | 07/25/16 08:15 | 07/27/16 03:41 | 3491081 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | | 3.0 | < 3.0 | ng/L | 07/25/16 08:15 | 07/27/16 03:41 | 3491081 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | | 2.0 | < 2.0 | ng/L | 07/25/16 08:15 | 07/27/16 03:41 | 3491081 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | _ | 4.0 | < 4.0 | ng/L | 07/25/16 08:15 | 07/27/16 03:41 | 3491081 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | - | 2.0 | < 2.0 | ng/L | 07/25/16 08:15 | 07/27/16 03:41 | 3491081 |

Sampling Point: EU16-1094 2701 PWS ID: Not Supplied

| | | | EA Met | hods | | o de Territo | | | |
|----------------|--------------------------------------|--------|--------------|------|--------|--------------|---------------------|------------------|------------|
| Analyte ID# | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | | 9.0 | < 9.0 | ng/L | 07/25/16 08:15 | 07/27/16 04:12 | 3491083 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | | 1.0 | < 1.0 | ng/L | 07/25/16 08:15 | 07/27/16 04:12 | 3491083 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | — | 3.0 | < 3.0 | ng/L | 07/25/16 08:15 | 07/27/16 04:12 | 3491083 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | - | 2.0 | < 2,0 | ng/L | 07/25/16 08:15 | 07/27/16 04:12 | 3491083 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 4.0 | < 4.0 | ng/L | 07/25/16 08:15 | 07/27/16 04:12 | 3491083 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | | 2,0 | < 2.0 | ng/L | 07/25/16 08:15 | 07/27/16 04:12 | 3491083 |

Client Name: Converse Laboratories Report #: 367277

Sampling Point: EU16-1094 4775 PWS ID: Not Supplied

| y Hotelessa | | | EEA Met | hods | | | | | 14.00 m |
|----------------|--------------------------------------|--------|--------------|------|--------|-------|---------------------|------------------|------------|
| Analyte ID# | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | | 9.0 | < 9.0 | ng/L | 07/25/16 08:15 | 07/27/16 04:43 | 3491085 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | - | 1.0 | < 1.0 | ng/L | 07/25/16 08:15 | 07/27/16 04:43 | 3491085 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | _ | 3.0 | < 3.0 | ng/L | 07/25/16 08:15 | 07/27/16 04:43 | 3491085 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | | 2.0 | < 2.0 | ng/L | 07/25/16 08:15 | 07/27/16 04:43 | 3491085 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 4.0 | < 4.0 | ng/L | 07/25/16 08:15 | 07/27/16 04:43 | 3491085 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | | 2.0 | < 2.0 | ng/L | 07/25/16 08:15 | 07/27/16 04:43 | 3491085 |

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

| | The second secon | Complete Control of the Control of t | | A STATE OF THE PARTY OF THE PAR | |
|-----|--|--|--|--|--|
| | Reg Limit Type: | MCL | SMCL | AL. | |
| - 1 | THE RESIDENCE OF THE PARTY OF T | The state of the s | Contraction to the Contraction of Street, Stre | AND DESCRIPTION OF A STREET AND | |
| | Symbol: | * | ^ | 1 | |



LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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STATE CERTIFICATION LIST

| State | Certification | State | Certification |
|-------------------------|----------------|-----------------------|-----------------|
| Alabama | 40700 | Montana | CERT0026 |
| Alaska | IN00035 | Nebraska | E87775 |
| Arizona | AZ0432 | Nevada | IN00035 |
| Arkansas | IN00035 | New Hampshire* | 2124 |
| California | 2920 | New Mexico | IN00035 |
| Colorado | IN035 | New Jersey* | IN598 |
| Colorado Radiochemistry | IN035 | New York* | 11398 |
| Connecticut | PH-0132 | North Carolina | 18700 |
| Delaware | IN035 | North Dakota | R-035 |
| Florida* | E87775 | Ohio | 87775 |
| Georgia | 929 | Oklahoma | D9508 |
| Hawaii | IN035 | Oregon (Primary AB)* | 4074-001 |
| Idaho | IN00035/E87775 | Pennsylvania* | 68-00466 |
| Illinois* | 200001 | Puerto Rico | IN00035 |
| Illinois Microbiology | 200001 | Rhode Island | LAO00343 |
| Indiana Chemistry | C-71-01 | South Carolina | 95005 |
| Indiana Microbiology | M-76-07 | South Dakota | IN00035 |
| lowa | 098 | Tennessee | TN02973 |
| Kansas* | E-10233 | Texas* | T104704187-15-8 |
| Kentucky | 90056 | Texas/TCEQ | TX207 |
| Louisiana* | LA160002 | Utah* | IN00035 |
| Maine | IN00035 | Vermont | VT-8775 |
| Maryland | 209 | Virginia [*] | 460275 |
| Massachusetts | M-IN035 | Washington | C837 |
| Michigan | 9926 | West Virginia | 9927 C |
| Minnesota* | 018-999-338 | Wisconsin | 999766900 |
| Mississippi | IN035 | Wyoming | IN035 |
| Missouri | 880 | | |

*NELAP/TNI Recognized Accreditation Bodies

Revision date: 04/14/2016

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample al6iquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

| COUROTING COURT | S Eaton | Analytical | | Q | CHAIN OF CHRETONY RECORD | | 110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207 | Order # 2697112 Batch # 267377 | 217.P | al H c | |
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| MATRIX CODES: | TURN-AROUND TIME (TAT) - S | TURN-AROUND TIME (TAT) - SURCHARGES | 40 | V at humandata | *** = 100% (2) Working Greet | | | | | | |
| DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-DXDOSURE WATER | SVY = Standard Vivident (5 working days) (KW* = Rush Writtern (5 working days) | w, r- | | IM* =Immediate Written: SP* * Weekend, Holiday | (3 working days) | | Samples received unintrounced with less than 48 hours bolding time remaining may be author to additional characes. | meounced with less ritims remaining may alcharges | | | |
| SW-SURFACE WATER PW-POOL WATER WW-47/ASTE WATER | * Please call, expedito | • Please call, expedited service not avallable for all testing | all testing | STAT* = Less than 48 hours | n 48 hours CALL | | OS. O. FORTS legue 5.0 Effective Date: 2016-01-20 | S.C. Effection Date | 7. 2116-01 | S | |
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WW-WASTE WATER

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Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other ferms proposed by Customer are deemed material alterations and are rejected unless expressly agree to in writing by EEA.

| Order#299712 Batch# | Page 3rt 2 | /E PO# | | SOUND SOUND | CHLORINATED CH. CC. YES NO. 10 WATTAN | 56 | ` | 7 | \ \ \ | . 7 | 7 | | | | | | | FNON-AGUEOUS SAMPLES TO CLIENT | Ank it osthve | | | | *C.Upon Recaip[| | red unannounced with feas | tran 48 hours holding trac terraining may be subject to schiklorel chargos. | 06-LO-F0435 Issue 5.0 Effective Date: 2016-01-20 | is, which are available upon request. Any other terms proposed by Customer are deemed material attentions and are rejected unless expressly agree to in writing by |
|--|---------------------------|--------------------------------------|-------------------|-------------|---------------------------------------|-------|------|-----------|-------|------------|-------|----------|---|---|----|------|----|--|----------------------------|------------------------------|-------|--------------------------------------|-----------------|---------------|---|--|--|--|
| 110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574,233.8207 | | STATE (sample origin) PROJECT NAME | SOURCE WATER | well | ME SAMPLE REMARKS | 11-44 | | | | | | | | | | | | LAS RESERVES THE RIGHT TO RETURN UNUSED PORTICUS OF NON-ACCUEOUS SAMPLES TO CLIENT | CAN PURCHAID BLANKIT BOTHY | | | CONDITIONS UPOK RECEIPT (chack one): | Ambient | | Sempled ribook | _ | 06-LO-F0435 | deemed material alterations and are reje |
| | OF CUSTODY RECORD | PWS ID # | POPULATION SERVED | | TEST NAME | 1/20 | 5 | | | | -> | | | | | | | | \$ | DATE TIME (| AM PV | E C | | 2007. | _ | SP = Westend, Holiday CALL | | offier terms proposed by Customer are |
| mater A | CHAIN | SAMPLER (Signature) | Disc Covell | | SAMPLING SITE | | 79.7 | 134 11814 | | 4/01 1/2/0 | | 13 11-10 | | | | | | RECEIVED BY:(Signature) | XACOLO XXX | RECEIVED BY:(Signature) | | RECEIVED FOR LABORATORY BY: | KDrows 7-15-18 | URCHARGES | 20% 20% | 75% | * Please call, expedited service not available for all testing | er Services Terms, which ere available upon request. Any |
| <u></u> | | Shaded area for EEA use only | | | COLLECTION | AM | 7 | } | 1 | 1439 | 14.55 | * 1/450 | • | | | | | e) DATE TIME | 1/21/1 | | | e) DATE TIME | | | SW = Stendard Writer; (15 working days) | RW* * Rash Willen: (5 working days) | * Please call, expe | Sample analysis will be provided according to the standard EEAWater Services Term EFA. |
| eurofins Figure 1 | www.Eurofinst/S.com/Eaton | - 1 | 78. O | BILL TO: | LAB Number | | | 2 7 083 | 3 080 | 1 084 | 5 085 | 18 V 086 | 8 | 6 | 10 | 27 5 | 10 | REI INOUISHED BY:(Signature) | | RELINQUISHED BY: (Signature) | | RELINQUISHED BY:(Signature) | | MATRIX CODES: | DW-DRINKING WATER | GW-GROUND WATER EW-EXPOSURE WATER | PW-POOL WATER WAY-WASTE WATER | Sample analysis will be provided |

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Eaton Analytical

Eurofins Eaton Analytical Run Log Run ID: 218310 Method: 537

| Type | Sample Id | Sample Site | Matrix | Instrument ID | Analysis Date | Calibration File |
|------|-----------|--------------------|--------|---------------|------------------|------------------|
| CCL | 3500358 | | SO | ბ | 07/23/2016 16:23 | 072316M537a.mdb |
| LRB | 3500352 | | RW | ბ | 07/23/2016 17:24 | 072316M537a.mdb |
| FBL | 3500353 | | RW | Շ | 07/23/2016 17:55 | 072316M537a.mdb |
| FBM | 3500354 | | RW | Շ | 07/23/2016 18:26 | 072316M537a.mdb |
| CCM | 3500359 | | SO | ბ | 07/24/2016 02:38 | 072316M537a.mdb |
| FS | 3491067 | EU16-1094 Range 48 | MO | Շ | 07/24/2016 07:14 | 072316M537a.mdb |
| CCH | 3500360 | | SO | ბ | 07/24/2016 12:23 | 072316M537a.mdb |

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| Section 100 10 | Sample | Analyte | Method | MRL | Client ID | Result Flag | : Amount | Target | Unitts | % Recovery | Recovery Limits | RPD | RPD Limit | Dil | Extracted | Analyzed | EEA ID# |
|--|----------|--------------------------------------|--------|-----|--|----------------|----------|---------|--------|--|--|-----|--------------|-----------|---|---------------------|--------------------|
| Septical Cost | 246. | | E 4 5 | | | | | | | | 3, | | | = : | | | |
| Septical 134 (1971) (19 | 2 | IS-PF0A-13C2 | 537 | ΑX | Annual Control of the | 200 | 5019.74 | 5019.24 | ng/L | 801 | 50 - 150 | ı | | | | 07/23/2016 16:23 | 3500358 |
| Septimentation of pictory 152 State N. M. 1,14,20 10,0 10,1 | ខ | 1S-PFOS-13C4 | 537 | Κ/N | | | 2691.86 | 2691.86 | ng/L | 190 | 50 - 150 | | 1 | 7 | | 07/23/2016 16:23 | 3500358 |
| Particularies and Physics SSP NA — 1, 1, 1, 1, 1, 1, 2, 1, 2, 3 N N — 1, 1, 1, 2, 2, 3 N N — 1, 1, 2, 3 N N N N N N N N N | 텅 | SS-PFDA-13C2 | 537 | ΑΆ | 1 | -742-0 | 100.8900 | 100 | ng/L | 101 | 70-130 | ı | Ī | - | | 07/23/2016 16:23 | 3500358 |
| Prefuncementation of 17°15, 91 21 1 2.522 1.0 pyl. 10, 0 pyl. | ន | SS-PFHxA-13C2 | 537 | Κ/N | | | 51.7428 | 50.0 | ng/L | 103 | 70-130 | | 1 | | 07/21/2016 14:00 | 07/23/2016 16:23 | 3500358 |
| Purplementations and Physics 201 | ខ្ល | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | The state of the s | | 9.5229 | 9.0 | ng/L | 106 | 50 - 150 | Ī | 1 | - | 07/21/2016 14:00 | 07/23/2016 16:23 | 3500358 |
| Prefetencementalities del [Princh] 201 | ថ្ង | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | - | | 0.9842 | 1,0 | ng/L | 86 | 50 - 150 | Ī | ı | | 07/21/2016 14:00 | 07/23/2016 16:23 | 3500358 |
| Performance and Problem 887 817 81 8-1 | 덩 | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | Orași de la companie | | 2.4858 | 3.0 | ng/L | 83 | 50 - 150 | I | | | 07/21/2016 14:00 | 07/23/2016 16:23 | 3500358 |
| Perfectocicles attitions (PTCS) SST A. . | ដូ | Perfluoronanoic acid (PFNA) | 537 | 2.0 | - | | 1.8381 | 2.0 | ng/L | 26 | 50-150 | ı | 1 | i | 07/21/2016 14:00 | 07/23/2016 16:23 | 3500358 |
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| Particular Par | ಕ | Perfluoroctanoic acid (PFOA) | 537 | 2.0 | | | 1.9352 | 2.0 | ng/L | 97 | 50-150 | | 1 | | 07/21/2016 14:00 | 07/23/2016 16:23 | 3500358 |
| Septimentality Sept | LRB | IS-PFOA-13C2 | 537 | N/A | 1.00 | ette. | 5202.48 | 5019.24 | ng/L | 104 | 50 - 150 | | 1 | | 07/22/2016 08:45 | | |
| Secriphe 1622 Secriphe 162 | LRB | IS:PF0S-13C4 | 537 | N/A | | | 2674,50 | 2691.86 | _ng/L | 66 | 50-150 | | 1 | | 07/22/2016 08:45 | 07/23/2016 17:24 | 3500352 |
| Perfusionmentalified and (PPLS) SST | LRB | SS-PFDA-13C2 | 537 | N/A | | | 88.8489 | 100 | ng/L | . 92 | 70-130 | ı | 1 | | 07/22/2016 08:45 | | 3500352 |
| Perfuserolatimentalinia and (PTRS) (SST) (SO a) (4) (10) (1) (1) (1) (1) (1) (1) (| LRB | SS-PFHXA-13C2 | 537 | N/A | 1 | | 45.1433 | 50.0 | T/Gu | . 83 | 70-130 | 1 | 1 | | 07/22/2016 08:45 | 27/23/2016 17:24 | 3500352 |
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| Perfluence authorised (PPNA) 557 4.0 - 4.0 - | 801 | Darfinghovernoeilforir and (DEHVS) | 537 | 3.0 | - | ٧ | 3.0 | | naA | - | | | | î | 07/22/2016 08:45 | 27/23/2016 17:24 | 3500352 |
| Perfunctochers authorise (PCO) SST A.0 . | | | 597 | 06 | The second of th | - | 2.0 | | lou | | | | | 1 | 07/22/2016 08:45 | 17.77 STOCKED 17.24 | 3500352 |
| Perfutacionale (POS) 257 2.0 | 2 | Periuorononanoic acid (PFNA) | 100 | 27 | | | 40 | | Pou | | The second secon | | | | 07/22/2016 08:45 | 07/23/2016 17:24 | 3500005 3500352 |
| Purity contained and (PPOA) SSY NA | 9 | Peritudroctane sunonare (PPOS) | 100 | 2 | | | 21 | | 1,6. | | | | | ٦į٦ | 200000000000000000000000000000000000000 | | 700000 |
| Septimorial Control | LRB | Perfluorooctanoic acid (PFOA) | 237 | 2.0 | A CONTRACTOR AND A CONT | V | 2.0 | | ng/L | - The second sec | | | | Ti. | 0//22/2016 08:45 | 07/23/2016 17:24 | 3500352 |
| Septimination SST NA | FBL | IS-PFOA-13C2 | 537 | ΑN | | | 52.1.23 | 5019.24 | ng/L | 110 | 90-150 | | | T | 07/22/2016 08:45 | | |
| SS-PFDA-13C2 SS7 NA | FBL | IS-PFOS-13C4 | 537 | NA | 1 | | 2855.51 | 2691.86 | ng/L | 106 | 50 - 150 | 1 | l | i | 07/22/2016 08:45 | | |
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| SS-PFDA-13C2 S37 N/A | FBM | IS-PFOA-13C2 | 537 | N/A | 1 | | 5143.93 | 5019.24 | ng/L | 102 | 50-150 | 1 | j | | 07/22/2016 08:45 | 07/23/2016 18:26 | |
| SS-PFDA-13C2 537 N/A | FBM | IS-PFOS-13C4 | 537 | Ϋ́ | | | 2556.26 | 2691.86 | ng/L | 95 | 50-150 | | 1 | | 07/22/2016 08:45 | 07/23/2016 18:26 | |
| Perfluorobutamesulfonic acid (PFHS) 537 N/A — 49,0480 50.0 ng/L 98 70-130 — 1.0 07/22/2016 08-45 (07/23/2016 18-25 Perfluorobutamesulfonic acid (PFHS) 537 1.0 — 49 70-1 10 70-130 — 1.0 07/22/2016 08-45 (07/23/2016 18-25 Perfluorobutamesulfonic acid (PFHA) 537 1.0 — 1.0 70-130 — 1.0 07/22/2016 08-45 (07/23/2016 18-25 Perfluorobutamesulfonic acid (PFHA) 537 2.0 — 724-1130 225 ng/L 100 70-130 — 1.0 07/22/2016 08-45 (07/23/2016 18-25 Perfluorobutamesulfonic acid (PFHA) 537 2.0 — 1.48.6890 150 ng/L 99 70-130 — 1.0 07/22/2016 08-45 (07/23/2016 18-25 Perfluorobutamesulfonic acid (PFHA) 537 4.0 — 4.0 1.0 1.0 1.0 07/22/2016 08-45 (07/23/2016 18-25 Perfluorobutamesulfonic acid (PFHA) 537 2.0 — 1.0 1.0 0 | FBM | SS-PFDA-13C2 | 537 | ΥN | | | 100.5710 | . 100 | ng/L | 101 | 70-130 | | 1 | | 07/22/2016 08:45 | 07/23/2016 18:24 | |
| Perfluorobusinessulfonic acid (PFBS) 537 1.0 — 885.5/FGO 675 ng/L 102 70-130 — 1.0 07/22/2016 08-45 <td>FBM</td> <td>SS-PFHxA-13C2</td> <td>537</td> <td>ΝΑ</td> <td></td> <td></td> <td>49,0480</td> <td>50.0</td> <td>ng/L</td> <td>88</td> <td>70-130</td> <td>1</td> <td>1</td> <td></td> <td>07/22/2016 08:45</td> <td>07/23/2016 18:26</td> <td></td> | FBM | SS-PFHxA-13C2 | 537 | ΝΑ | | | 49,0480 | 50.0 | ng/L | 88 | 70-130 | 1 | 1 | | 07/22/2016 08:45 | 07/23/2016 18:26 | |
| Perfluoroheptanoic acid (PFHxS) 537 1.0 — 1.0 07/22/2016 08:45 (07/23/2016 18:26) Perfluorohexanesulfonic acid (PFHxS) 537 3.0 — 1.0 71.8652 75.0 ng/L 100 70-130 — 1.0 07/22/2016 08:45 (07/23/2016 18:26) Perfluorohexanesulfonic acid (PFHxS) 537 2.0 — 1.0 1.0 70-130 — 1.0 07/22/2016 08:45 (07/23/2016 18:26) Perfluorocctanoic acid (PFOx) 537 4.0 — 4.0 1.0 07/22/2016 08:45 (07/23/2016 18:26) Perfluorocctanoic acid (PFOx) 537 2.0 — 4.0 1.0 07/22/2016 08:45 (07/23/2016 18:26) | FBM | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | | | 685.9760 | 675 | ng/L | 102 | 70 - 130 | | | | 07/22/2016 08:45 | الا عداء رمية | |
| Perfluorohexaneaulforing adid (PFHxis) | FBM | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | | | 71.8552 | 75.0 | ng/L | 96 | 70 - 130 | | erica 1 | | 07/22/2016 08:45 | 07/23/2016 18:20 | |
| Perfluioronolinancia acid (PPNA) 537 2.0 — 148.6890 150 ng/L 99 70-130 — 1.0 07/22/2016 08:45; 07/23/2016 18:26; 07/23/2016 18:26; 07/23/2016 18:26; 07/23/2016 08:45; 07/23/2016 08:45; 07/23/2016 18:26; 07/23/2016 08:45; 07/23/2016 08:45; 07/23/2016 08:45; 07/23/2016 08:45; 07/23/2016 08:45; 07/23/2016 18:26; 07/23/2016 08:45; 07/23/2016 08 | - MB-D | Perfluorohexanesulforic acid (PFHxS) | 537 | 3.0 | | anus. | 224.1130 | 225 | ng/L | 100 | 70 - 130 | 1 | 1 | | 07/22/2016 08:45 | 07/23/2016 18:20 | |
| Perfluorooctaine sulfonate (PFOS) 537 4.0 — — 1.0 07/22/2016 08:45; 07/23/2016 18:26; Perfluorooctainoic acid (PFOA) 537 2.0 — 148.0370 150 ng/L 97 70-130 — 1.0 07/22/2016 08:45; 07/23/2016 18:26; | 306 8 | Perfluorononanoic acid (PFNA) | 537 | 2.0 | The second secon | can. | 148,6890 | 150 | ng/L | 66 | 70 - 130 | | 10: π | - | 07/22/2016 08:45 | 07/23/2016 18:20 | C -1 -7 |
| Perfluorocotanoic acid (PFOA) 537 2.0 - 1.0 07/22/2016 08:45 07/22/2016 08:45 07/22/2016 08:45 07/22/2016 08:45 | Ma 12 | Perfluorooctane suffonate (PFOS) | 537 | 4.0 | | | 297.0930 | 300 | ng/L | 66 | 70-130 | 1 | 1 | | 07/22/2016 08:45 | 07/23/2016 18:2 | |
| | OFBM | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | 1 | 1.52 | 146.0370 | 150 | ng/L | 97 | 70-130 | ĺ | 1 | 25.00 | 07/22/2016 08:45 | 07/23/2016 18:20 | |

EEA Run ID 218310 / EEA Report # 367277

| | | | | | OC S | QC Summary Report (cont. | ort (cont.) | | | | 1000 | | | | | |
|----------------|--|--------|-----|--|----------------|--------------------------|--|-------|---------------|--------------------|-------|--------------|---------------|------------------|--|------------|
| Sample Type | Analyte | Method | MRL | Client ID | Result Flag | Amount | Target | Units | % Recovery | Recovery Limits | / RPD | RPD Limit | Dil Factor | Extracted | Analyzed | EEA ID# |
| M O O | IS-PFOA-13C2 | 537 | ΑN | | 7.22 | 5012.54 | 5012.54 | ng/L | 100 | 50 - 150 | 1 | ı | 1.0 | 07/21/2016 14:00 | 07/24/2016 02:38 | 3500359 |
| CCM | IS-PFOS-13C4 | 537 | N/A | | = | 2561.21 | 2561.21 | ng/L. | 100 | 50-150 | | 1 | 1.0 | 07/21/2016 14:00 | 07/24/2016 02:38 | 3500359 |
| გე | SS-PFDA-13C2 | 537 | Ϋ́Z | | | 97.5702 | 100 | ng/L | 86 | 70-130 | I | 1 | 1.0 | 07/21/2016 14:00 | 07/24/2016 02:38 | 3500359 |
| ₩ S S | SS-PFHxA-13C2 | 537 | ΑΧ | A STATE OF THE STA | | 49,1098 | 50.0 | ng/L | 86 | 70 - 130 | | | 1,0 | 07/21/2016 14:00 | 07/24/2016 02:38 | 3500359 |
| ₩ O O | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | | | 700.2190 | 675 | ng/L | 1 04 | 70-130 | ı | 1 | 1.0 | 07/21/2016 14:00 | 07/24/2016 02:38 | 3500359 |
| M OCM | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | AND DESCRIPTION AND AND ADDRESS OF THE PROPERTY OF THE PROPERT | | 73.1124 | 75.0 | ng/L | 97 | 70 - 130 | I | 1 | 1.0 | 07/21/2016 14:00 | 07/24/2016 02:38 | 3500359 |
| MOO O | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | | | 219.9750 | 225 | ng/L | 86 | 70 - 130 | ı | 1 | 1.0 | 07/21/2016 14:00 | 07/24/2016 02:38 | 3500359 |
| CCM | Perfluorononanoic acid (PFNA) | 537 | 2.0 | - | | 147,9240 | 150 | ng/L | 66 | 70-130 | 1 | 1 | 1.0 | 07/21/2016 14:00 | 07/24/2016 02:38 | 3 3500359 |
| MOO | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | | | 294,4120 | 300 | ng/L | 86 | 70 - 130 | l | | 1.0 | 07/21/2016 14:00 | 07/24/2016 02:38 | 3500359 |
| CCM | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | | | 148.1560 | 150 | ng/L | 66 | 70 - 130 | I | - | 1.0 | 07/21/2016 14:00 | 07/24/2016 02:38 | 3 3500359 |
| FS | IS-PFOA-13C2 | 537 | ΝΆ | EU16-1094 Range 48 | | 5296.70 | 5012.54 | ng/L | 106 | 50-150 | 1 | 1 | 0.94 | 07/22/2016 08:45 | 07/24/2016 07:14 | 3491067 |
| FS | VARIAN PROPERTY AND A VALUE OF THE PROPERTY AND A VALUE OF THE PROPERTY AND A VALUE OF THE PROPERTY OF THE PRO | 537 | N/A | EU16-1094 Range 48 | | 2732.72 | 2561.21 | ng/L | 107 | 50-150 | | | 9.0 | 07/22/2016 08:45 | 07/24/2016 07:14 | 3491067 |
| FS | SS-PFDA-13C2 | 537 | NA | EU16-1094 Range 48 | | 87,4984 | 100 | ng/L | 83 | 70-130 | 1 | 1 | 0.94 | 07/22/2016 08:45 | 07/24/2016-07:14 | 3491067 |
| FS | SS-PFHxA-13C2 | 537 | Ϋ́ | EU16-1094 Range 48 | 2 | 45.0589 | 50.0 | ng/L | 96 | 70 - 130 | 1 | 1 | 0.94 | 07/22/2016 08:45 | 07/24/2016:07:14 | 1 3491067 |
| FS | Perfluorobutanesulfonic acid (PFBS) | 537 | 0.6 | EU16-1094 Range 48 | v | 9.0 | | ng/L | | | | 277-2 | 0.94 | 07/22/2016 08:45 | 07/24/2016 07:14 | 3491067 |
| FS | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | EU16-1094 Range 48 | ٧ | 1.0 | | ng/L | 1 | 1 | 1 | I | 2.9 28. | 07/22/2016:08:45 | 07/24/2016 07:14 | 4 3491067 |
| FS | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | EU16-1094 Range 48 | ٧ | 3.0 | | ng/L | 1 | 1 | | | 26.0 | 07/22/2016 08:45 | 07/22/2016 08:45 07/24/2016 07:14 | 4 3491067 |
| FS | Perfluorononanoic acid (PFNA) | 537 | 2.0 | EU16-1094 Range 48 | v | 2.0 | | ng/L | 1 | 1 | | 1 | 0.94 | 07/22/2016 08:45 | 07/24/2016 07:14 | 4 3491067 |
| £ | Perfluoroctane sulfonate (PFOS) | 537 | 4.0 | EU16-1094 Range 48 | ٧ | 4,0 | | ng/L | 1 | 1 | 1 | 1 | 96.0 | 07/22/2016 08:45 | 07/24/2016 07:14 | 4 3491067 |
| FS | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | ă | ٧ | 2.0 | The state of the s | ng/L | | | | | 0.94 | 07/22/2016 08:45 | 07/24/2016 07:14 | 4 3491067 |
| 뒁 | IS-PFOA-13C2 | 537 | N/A | Andrew An | | 4709.02 | 4709.02 | ng/L | 100 | 50 - 150 | | | 1.0 | 07/21/2016 14:00 | 07/24/2016 12:23 | 3 3500360 |
| 뒁 | IS-PFOS-13C4 | 537 | ΑX | | | 2340.50 | 2340.5 | ng/L | 100 | 50 - 150 | 1 | 1 | 1.0 | 07/21/2016 14:00 | 07/24/2016 12:23 | 3 3500360 |
| 용 | SS-PFDA-13C2 | 537 | ΚX | | | 97.9356 | 133 | ng/L | 8 | 70 - 130 | l von | | 1.0 | 07/21/2016 14:00 | 07/24/2016 12:23 | 3 3500360 |
| S | SS-PFHxA-13C2 | 537 | Ϋ́Z | | | 50.3487 | 50.0 | ng/L | 101 | 70-130 | 1 | 1 | 1.0 | 07/21/2016 14:00 | 07/24/2016 12:23 | 3 3500360 |
| 용 | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | | | 1140.0100 | 1125 | ng/L | 101 | 70 - 130 | 1 | l Gen | 1.0 | 07/21/2016 14:00 | 07/24/2016 12:23 | 3 3500360 |
| HOO | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | Annual des de la principa del la principa de la princ | | 130.9610 | 125 | ng/L | 105 | 70-130 | 1 | 1 | 1.0 | 07/21/2016 14:00 | 07/24/2016 12:23 | 3 3500360 |
| 55 H2 | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | | | 380,2260 | 375 | ng/L | 10 | 70-130 | ı | ı | 0.1 | 07/21/2016 14:00 | 07/21/2016 14:00 07/24/2016 12:23 | 3 3500360 |
| 당 | Perfluorononanoic acid (PFNA) | 537 | 2.0 | | | 248.4280 | 250 | ng/L | 66 | 70 - 130 | - | ı | 1.0 | 07/21/2016 14:00 | 07/24/2016 12:23 | 3 3500360 |
| 당 | Perfluorooctane suffonate (PFOS) | 537 | 4.0 | A TANKAN PARAMAN PARAM | | 514,8690 | 200 | ng/L | 103 | 70 - 130 | | | 1.0 | 07/21/2016 14:00 | 07/21/2016 14:00 07/24/2016 12:23 | 3 3500360 |
| 各 | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | | | 255.8940 | 250 | ng/L | 102 | 70 - 130 | ı | 1 | 1.0 | 07/21/2016 14:00 | 07/21/2016 14:00 07/24/2016 12:23 350036 | 3 3500360 |



Eurofins Eaton Analytical

Run ID: 218484 Method: 537

| Calibration File | 072616M537a.mdb | 072616M537a.mdb | 072616M537a.mdb | 072616M537a.mdb | 072616M537a.mdb | 072616M537a.mdb | 072616M537a.mdb | 072616M537a.mdb | 072616M537a.mdb | 072616M537a.mdb | 072616M537a.mdb | 072616M537a.mdb | 072616M537a.mdb | 072616M537a.mdb | 072616M537a.mdb | 072616M537a.mdb |
|------------------|------------------|------------------|------------------|------------------|--------------------|--------------------|--------------------|--------------------|---------------------|--------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| Analysis Date | 07/26/2016 14:52 | 07/26/2016 15:54 | 07/26/2016 16:25 | 07/26/2016 16:55 | 07/26/2016 20:31 | 07/26/2016 21:01 | 07/26/2016 21:32 | 07/26/2016 22:03 | 07/26/2016 22:34 | 07/26/2016 23:04 | 07/26/2016 23:35 | 07/27/2016 03:10 | 07/27/2016 03:41 | 07/27/2016 04:12 | 07/27/2016 04:43 | 07/27/2016 09:50 |
| Instrument ID | ≿ | ≿ | ζ | ≿ | ≿ | ≿ | ζ | ≿ | ≿ | ≿ | ≿ | ბ | ბ | ζ | ბ | ζ |
| Matrix | SO | RW | RW | RW | DW | MO | MO | MO | ΜQ | DW | SO | MO | DW | DW | DW | SO |
| Sample Site | | | | | EU16-1094 Range 44 | EU16-1094 Range 39 | EU16-1094 Range 39 | EU16-1094 Range 35 | EU16-1094 Range 13A | EU16-1094 Range 23 | | EU16-1094 2723 | EU16-1094 2792 | EU16-1094 2701 | EU16-1094 4775 | |
| Sample Id | 3501435 | 3501408 | 3501409 | 3501410 | 3491069 | 3491071 | 3501412 | 3491073 | 3491075 | 3491077 | 3501437 | 3491079 | 3491081 | 3491083 | 3491085 | 3501438 |
| Type | CCL | LRB | FBL | FBH | S | S. | 6 | S. | æ | S | CCM | S. | FS | FS | S | CCH |

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| Sample | Analyte | Wethod | MRL | Client ID | Result Flag | Amount | Target | Units | % Recovery | Recovery y Limits | RPD | RPD Limit | Dil | Extracted | Analyzed | EEA ID# |
|--|--------------------------------------|--------|-----|--|--|----------|-------------------------------------|-------|---------------|----------------------|--------------------|--------------|------|---|--------------------------|------------|
| - - - - - - - - - - | IS-PFOA-13C2 | 537 | ΑΝ | | | 6229.95 | 6229.95 | ng/L | 100 | 50 - 150 | | | 6. | 07/21/2016 14:00 | 07/26/2016 14:52 | 3501435 |
| ខ | IS-PEOS-13C4 | 537 | ΑΝ | A TOTAL CONTRACTOR AND | | 3762.86 | 3762.86 | ng/L | 100 | 50 - 150 | | | 1.0 | 07/21/2016 14:00 | 07/26/2016 14:52 | 3501435 |
| ಶ | SS-PFDA-13C2 | 537 | ΑΝ | | | 100.0090 | 100 | ng/L | 100 | 70 - 130 | 1 | | 1.0 | 07/21/2016 14:00 | 07/26/2016 14:52 | 3501435 |
| ප්ප | SS-PFHxA-13C2 | 537 | ¥. | The control of the co | | 53.0549 | 50.0 | ng/L | 106 | 70-130 | ı | ı | 1.0 | 07/21/2016 14:00 | 07/26/2016 14:52 | 3501435 |
| ದ್ದ | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | Total Communication of the Com | 1.057 | 9,0373 | 0.6 | ng/L | 100 | 50 - 150 | I | I | 1.0 | 07/21/2016 14:00 | 07/26/2016 14:52 | 3501435 |
| ಶ | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | | | 1,0518 | 1.0 | ng/L | 105 | 50-150 | ı | ı | 1.0 | 07/21/2016 14:00 | 07/26/2016 14:52 | 3501435 |
| ដូ | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | | | 2.6276 | 3.0 | ng/L | 88 | 50-150 | and company of the | | 1.0 | 07/21/2016 14:00 | 07/26/2016 14:52 | 3501435 |
| 덩 | Perfluorononanoic acid (PFNA) | 537 | 2.0 | | | 2.1919 | 2.0 | ng/L | 110 | 50-150 | 1 | I | 1.0 | 07/21/2016 14:00 | 07/26/2016 14:52 | 3501435 |
| ប្ដី | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | ACTUAL PROPERTY AND ACTUAL | neenn | 3,8729 | 4.0 | ng/L | - 87 | 50 - 150 | | 1 | 1,0 | 07/21/2016 14:00 | 07/26/2016 14:52 | 3501435 |
| ਲ | Perfluoroctanoic acid (PFOA) | 537 | 2.0 | Various or revenue de se balande de Aprillande de Aprillande de Branch de Admiril Res. Production de Various de la Contraction de Aprillande | angline, Annual and An | 1.8588 | 2.0 | ng/L | 93 | 50-150 | I | I | 1.0 | 07/21/2016 14:00 | 07/26/2016 14:52 | 3501435 |
| LRB | IS-PFOA-13C2 | 537 | ΑΝ | 1 | | 6946.97 | 6229.95 | ng/L | 112 | 50 - 150 | 1 | I | 0.95 | 07/25/2016 08:15 | 07/26/2016 15:54 | 3501408 |
| LRB | IS-PFOS-13C4 | 537 | N/A | | | 4058.43 | 3762.86 | ng/L | 108 | 50-150 | 1 | 1 | 0.95 | 07/25/2016 08:15 | 07/26/2016 15:54 | 3501408 |
| LRB | SS-PFDA-13C2 | 537 | N/A | | Contract Agentus Contract | 93.1442 | 130 | ng/L | 86 | 70-130 | 1 | 1 | 0.95 | 07/25/2016 08:15 | 07/26/2016 15:54 | 3501408 |
| LRB | SS-PFHXA-13C2 | 537 | N/A | The second secon | | 47,0083 | 50.0 | ng/L | 66 | 70-130 | 1 | 1 | 0.95 | 07/25/2016 08:15 | 07/26/2016 15:54 | 3501408 |
| LRB | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | Comments of the Comments of th | × | 0.6 | | ng/L | 1 | 1 | | l | 0.95 | 07/25/2016 08:15 | 07/26/2016 15:54 | 3501408 |
| RB | Perfluoroheotanoic acid (PEHbA) | 537 | 1.0 | Control of the contro | × 1 | 1.0 | Charles and a second and the second | _ng/L | 1 | | | 1 | 0.95 | 07/25/2016 08:15 | 07/26/2016 15:54 | 3501408 |
| LRB | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | And the second s | • | 3.0 | | _1/gu | 1 | 1. | 1 | 1 | 0.95 | 07/25/2016 08:15 | 07/26/2016 15:54 | 3501408 |
| LRB | Perfluorononanoic acid (PFNA) | 537 | 2.0 | The state of the s | × | 2.0 | | ng/L | 1 | 1 | | | 0.95 | 07/25/2016 08:15 | 07/26/2016 15:54 | 3501408 |
| LRB | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | The state of the s | ٧ | 4.0 | | J/Bu | 1 | 1 | l === | | 0.95 | 07/25/2016 08:15 | 07/26/2016 15:54 | 3501408 |
| LRB | Perfluoroctancic acld (PFOA) | 537 | 2.0 | | v | 2:0 | | J/6u |] | 1 | l | 1 | 0.95 | 07/25/2016 08:15 | 07/28/2016 15:54 | 3501408 |
| FBL | IS-PFOA-13C2 | 537 | A/N | The state of the s | | 6758.23 | 6229.95 | ng/L | 108 | 50-150 | 1 | | 1.0 | 07/25/2016 08:15 | 07/26/2016 16:25 | 3501409 |
| FBL | IS-PFOS-13C4 | 537 | A/N | | | 4009.32 | 3762.86 | ng/L | 107 | 50-150 | 1 | 1 | 1.0 | 07/25/2016 08:15 | 07/26/2016 16:25 | 3501409 |
| FBL | SS-PFDA-13C2 | 537 | N/A | | | 96.6546 | 100 | T/Gr | 97 | 70-130 | ı | I | 1.0 | 07/25/2016 08:15 | 07/26/2016 16:25 | 3501409 |
| FBL | SS-PFHXA-13C2 | 537 | N/A | | | 48.7658 | 50,0 | ng/L | 86 | 70-130 | Trace Control | ı | 1.0 | 07/25/2016 08:15 | 07/26/2016 16:25 | 3501409 |
| 턤 | Perfluorobutanesuffonic acid (PFBS) | 537 | 9.0 | - | | 8.7371 | 9.0 | ng/L | 97 | 50 - 150 | - | ı | 1.0 | 07/25/2016 08:15 | 07/26/2016 16:25 | 3501409 |
| FBL | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | _ | | 0.8211 | 1.0 | ng/L | 82 | 50 - 150 | 1 | | 1.0 | 07/25/2016 08:15 | 07/26/2016 16:25 | 3501409 |
| FBL | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | | | 2.4820 | 3.0 | ng/L | 83 | 50-150 | | | 1.0 | 07/25/2016 08:15 | 07/26/2016 16:25 | 3501408 |
| FBL | Perfluorononanoic acid (PFNA) | 537 | 2.0 | | | 1.8337 | 2.0 | ng/L | 92 | 50 - 150 | 1 | 1 | 1.0 | 07/25/2016 08:15 | 07/26/2016 16:25 | 3501406 |
| FBL | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | | | 3.2606 | 4.0 | ng/L | 82 | 50-150 | ı | I I | 1.0 | 07/25/2016 08:15 | 07/26/2016 16:25 | 3501408 |
| FBI | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | AND THE PROPERTY OF THE PROPER | | 1.9340 | 2.0 | пg/L | 97 | 50 - 150 | | | 1.0 | 07/25/2016 08:15 | 07/26/2016 16:25 | 3501406 |
| FBH | IS-PFOA-13C2 | 537 | N/A | 1 | | 7142.68 | 6229.95 | ng/ | 115 | 50-150 | 1 | ı | 1.0 | 07/25/2016 08:15 | 07/26/2016 16:55 | 3501410 |
| FBH | IS-PF0S-13C4 | 537 | ďΖ | | | 3905,35 | 3762.86 | ng/L | 104 | 50 - 150 | | 1 | 1.0 | 07/25/2016 08:15 | 07/26/2016 16:55 | 3501410 |
| 盟 | SS-PFDA-13C2 | 537 | Ϋ́N | - | | 90.6048 | 100 | ng/L | 91 | 70 - 130 | 1 | | 1.0 | 07/25/2016 08:15 | 07/26/2016 16:55 | 3501410 |
| FBH | SS-PFHxA-13C2 | 537 | N/A | 1 | -30 | 45,1555 | 50.0 | ng/L | 06 | 70 - 130 | I | 1 | 1.0 | 07/25/2016 08:15 | 07/26/2016 16:55 | 3501410 |
| F8H | Perfluorobutanesulfonic acid (PFBS) | 537 | 0.6 | | | 988.1190 | 1125 | ng/L | 88 | 70 - 130 | | 1 | 1.0 | 07/25/2016 08:15 | 07/26/2016 16:55 | 3501410 |
| FBH | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | | | 108.6940 | 125 | ng/L | 87 | 70-130 | | | 1.0 | 07/25/2016 08:15 07/26/2016 16:55 | 07/26/2016 16:5 | 3501410 |
| P. | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | - | | 345,7540 | 375 | ng/L | - 92 | 70 - 130 | 1 | | 1,0 | 07/25/2016 08:15 07/26/2016 18:55 350141 | 07/26/2016 18:5 | 3 3501410 |
| i age | Perfluorononanoic acid (PFNA) | 537 | 2.0 | | | 215.6520 | 250 | ng/L | 98 | 70-130 | | | 1.0 | 07/25/2016 08:15 07/26/2016 16:55 3501410 | 07/26/2016 16:5 | 3501410 |
| 五 1: | Perfluorooctane suffonate (PFOS) | 537 | 4.0 | | | 451.6220 | 200 | ng/L | 80 | 70-130 | | ı | 1.0 | 07/25/2016 08:15 | 07/28/2016 16:55 3501410 | 3 3501410 |
| QFBH. | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | | | 227,5510 | 250 | ng/L | 91 | 70-130 | 1 | 1 | 1.0 | 07/25/2016 08:15 07/26/2016 16:55 | 07/26/2016 16:5 | 3501410 |
| SPag 20 | SPage 2 of 5 | | | | | | | | | ш | EAF | dl nu | 2184 | EEA Run ID 218484 / EEA Report # 367277 | port # 3672 | 77 |

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| d (PFBS) PFHpA) (PFNA) (PFNA) (PFNA) (PFNS) PFOA) (PFNS) (PFNS) (PFNA) (PFNS) (PFNS) (PFNA) (PFNS) | | ļ 1 | EU16-1094 Range 44 EU16-1094 Range 44 | | | | | Recovery | Limits | | Limit Fa | Factor | | • | # □ |
|--|-----|---|--|---|---------|---------|-------|----------|----------|---|----------|--------|-----------------------------------|-----------------------------------|--------|
| IS-PF0S-1304 SS-PFDA-1302 SS-PFHXA-1302 SS-PFHXA-1302 Perfluorobutanesulfonic acid (PFBS) Perfluorobutanesulfonic acid (PFHXS) Perfluorocidane sulfonic acid (PFNX) Perfluorocidane sulfonic acid (PFNX) Perfluorocidane sulfonic acid (PFOX) Perfluorocidanic acid (PFOX) IS-PF0A-1302 SS-PFDA-1302 Perfluorobutanesulfonic acid (PFHXS) Perfluorobutanesulfonic acid (PFHXS) Perfluorocidane sulfonic acid (PFNX) Perfluorocidane sulfoniale (PFOX) Perfluorocidane sulfon | | - The same of the | EU16-1094 Range 44 | 1 | 7157.51 | 6229.95 | ng/L | 115 | 50-150 | 1 | | 0.98 | 07/25/2016 08:15 | 07/26/2016 20:31 | 349106 |
| SS-PFDA-1302 | | N/A | Control of the last of the las | | 4073,51 | 3762.86 | ng/L | 108 | 50-150 | | | 0.98 | 07/25/2016 08:15 | 07/26/2016 20:31 | 349106 |
| SS-PFHAA-13C2 Perfluorobutanesuffonic acid (PFBS) Perfluorobeptanote acid (PFHpA) Perfluoroheptanote acid (PFHpA) Perfluoronamonic acid (PFNA) Perfluoroctane suffonate (PFOA) Perfluoroctanote acid (PFOA) Perfluoroctanote acid (PFOA) (SS-PFDA-13C2 SS-PFDA-13C2 SS-PFHXA-13C2 SS-PFHXA-13C2 SS-PFHXA-13C2 Perfluorobutanesuffonic acid (PFHS) Perfluorobutanesuffonic acid (PFNA) Perfluoroctanote acid (PFNA) | | A/A | EU16-1094 Range 44 | | 91.4136 | 138 | ng/L | 93 | 70-130 | | 1 | 0.98 | 07/25/2016 08:15 | 07/26/2016 20:31 | 349106 |
| Perfluorobutanesulfonic acid (PFHsk) Perfluoroheytanoic acid (PFHpk) Perfluorohexanesulfonic acid (PFHpk) Perfluorobetane sulfonate (PFNx) Perfluoroctane sulfonate (PFNx) Refluoroctanoic acid (PFNx) Refluoroctanoic acid (PFNx) Refluorobutanesulfonic acid (PFHsk) Perfluorobutanesulfonic acid (PFHxk) Perfluorobutanesulfonic acid (PFHxk) Perfluoroctanoic acid (PFNx) | | ٧ 2 | EU16-1094 Range 44 | | 46,5518 | 50.0 | ng/L | 95 | 70-130 | | | 0.98 0 | 07/25/2016 08:15 | 07/26/2016 20:31 | 349106 |
| Perfluoroheptanoic acid (PFHpA) Perfluorohexanesulfonic acid (PFHxS) Perfluorononanoic acid (PFNA) Perfluorooctane sulfonate (PFOA) Perfluoroctanoic acid (PFOA) IS-PFOA-13C2 SS-PFDA-13C2 SS-PFTA-13C2 SS-PFTA-13C2 SS-PFTA-13C2 Perfluorobulanesulfonic acid (PFHxS) Perfluorobulanesulfonic acid (PFHxS) Perfluoroctanoic acid (PFHxS) Perfluoroctanoic acid (PFNA) | | 9.0 | EU16-1094 Range 44 | v | 9.0 | | ng/L | ı | ı | | ı | 0.98 | 07/25/2016 08:15 | 07/26/2016 20:31 | 349106 |
| Perfluorobexanesulfronic acid (PFNA) Perfluoronanio acid (PFNA) Perfluorocitane suffonate (PFOS) Perfluorocitane suffonate (PFOA) (S-PFOA-13C2 SS-PFDA-13C2 SS-PFDA-13C2 SS-PFHAA-13C2 SS-PFHAA-13C2 Perfluorobutanesulfonic acid (PFHAS) Perfluorobutanesulfonic acid (PFHAS) Perfluorocitane sulfonate (PFNA) | | 1.0 | EU16-1094 Range 44 | ٧ | 1.0 | | ng/L | ı | ı | I | I | 0.98 | 07/25/2016 08:15 | 07/26/2016 20:31 | 349106 |
| Perfluorononanoic acid (PFNA) Perfluorocctane sulfonate (PFOS) Perfluorocctanoic acid (PFOA) IS-PFOA-13C2 SS-PFHAA-13C2 SS-PFHAA-13C2 SS-PFHAA-13C2 Perfluorobutanesulfonic acid (PFHAS) Perfluorobetanoic acid (PFHAS) Perfluorocctanoic acid (PFNA) | | 3.0 | EU16-1094 Range 44 | v | 3.0 | | ng/L | 1 | ı | I | - | 0.98 | 07/25/2016 08:15 | 07/26/2016 20:31 | 349106 |
| Perfluorocctaine sulfonate (PFOS) | | 2.0 | EU16-1094 Range 44 | v | 2.0 | | ng/L | 1 | - | 1 | ı | 0.98 | 07/25/2016 08:15 | 07/26/2016 20:31 | 349106 |
| Perfluorooctanoic acid (PFOA) (S-PFOA-13C2 SS-PFDA-13C2 SS-PFHXA-13C2 Perfluorobutanesuffonic acid (PFBS) Perfluorobetanoic acid (PFHXS) Perfluorobetanoic acid (PFNX) Perfluorocctanoic acid (PFNX) | | 4.0 | EU16-1094 Range 44 | ٧ | 4.0 | | ng/L | 1 | 1 | 1 | 1 | 0.98 | 07/25/2016 08:15 | 07/26/2016 20:31 | 349106 |
| IS-PFOA-1302 IS-PFOA-1302 IS-PFOS-1304 IS-PFOS-1304 IS-PFOA-1302 IS-P | | 2.0 | EU16-1094 Range 44 | ٧ | 2,0 | | ng/L | 1 | 1 | I | 1 | 0.98 | 07/25/2016 08:15 | 07/26/2016 20:31 | 349106 |
| IS-PFOS-1334 SS-PFDA-1302 SS-PFIXA-1302 Perfluorobutanresulfonic acid (PFBS) Perfluoroheptanoic acid (PFHXS) Perfluorohexanesulfonic acid (PFHXS) Perfluoronanoic acid (PFNX) Perfluorocidane suffornate (PFOS) Perfluorocidane suffornate (PFOS) Perfluorocidane acid (PFOA) IS-PFOA-1302 | | A/A | EU16-1094 Range 39 | | 6974.68 | 6229.95 | ng/L | 112 | 50-150 | Ī | 1 | 0.91 | 07/25/2016 08:15 | 07/26/2016 21:01 | 349107 |
| SS-PFDA-1302 SS-PFHXA-13C2 Perfluorobulanesultonic acid (PFBS) Perfluoroheptanoic acid (PFHXS) Perfluorohexanesultonic acid (PFHXS) Perfluorocidane sulfonite (PFNX) Perfluorocidane sulfonite (PFOX) | | ΚŅ | EU16-1094 Range 39 | | 4115.28 | 3762.86 | ng/L | 109 | 50-150 | | 1 | 0.91 | 07/25/2016 08:15 | 07/26/2016 21:01 | 349107 |
| SS-PFHAA-13C2 Perfluorobutanesulfonic acid (PFBS) Perfluorobetanesulfonic acid (PFHpA) Perfluorohexanesulfonic acid (PFHyA) Perfluoronanoic acid (PFNA) Perfluorocidane sulfoniate (PFOA) Perfluorocidane sulfoniate (PFOA) Perfluorocidanic acid (PFOA) IS-PFOA-13C2 | | N/A | EU16-1094 Range 39 | | 84,8742 | 100 | ng/L. | 93 | 70-130 | I | Ī | 0.91 | 07/25/2018 08:15 | 07/26/2016 21:01 | 349107 |
| Perfluorobutanesulfonic acid (PFHSS) Perfluoroheptanoic acid (PFHpA) Perfluorohexanesulfonic acid (PFNXS) Perfluorocidane sulfonite (PFOS) Perfluorocidane sulfonite (PFOA) IS-PFOA-13C2 IS-PFOA-13C2 | | Ψ/N | EU16-1094 Range 39 | | 44.8294 | 50.0 | | 66 | 70-130 | 1 | 1 | 0.91 C | 07/25/2016 08:15 | 07/26/2016 21:01 | 349107 |
| Perfluoroheptanoic acid (PFHpA) Perfluorohexanesultoric acid (PFHxS) Perfluorooctanoic acid (PFNA) Perfluorooctanoic acid (PFOA) Perfluorooctanoic acid (PFOA) IS-PFOA-1302 IS-PFOA-1302 | 537 | 9.0 | EU16-1094 Range 39 | v | 0.6 | 777 | ng/L | | 1 | | | 0.91 | 07/25/2016 08:15 | 07/26/2016 21:01 | 349107 |
| Perfluorobexanesulfonic acid (PFHxS) Perfluoronnanoic acid (PFNA) Perfluoroctane sulfonate (PFOS) Perfluoroctanic acid (PFOA) IS-PFOA-13C2 IS-PFOS-13C4 | 537 | 1.0 | EU16-1094 Range 39 | ٧ | 1.0 | 4 | ng/L | 1 | 1 | 1 | | 0.91 | 07/25/2016 08:15 | 07/26/2016 21:01 | 349107 |
| Perfluoronnanoic acid (PFNA) Perfluorocctane sufonate (PFOS) Perfluorocctanoic acid (PFOA) IS-PFOA-13C2 IS-PFOS-13C4 | 537 | | EU16-1094 Range 39 | v | 3,0 | | ng/L | 1 | 1 | | 1 | 0.91 | 07/25/2016 08:15 | 07/26/2016 21:01 | 349107 |
| Perfluorocitane suffonate (PFOS) Perfluorocitancie acid (PFOA) ISPFOA-13C2 ISPFOS-13C4 | 537 | 2.0 | EU16-1094 Range 39 | v | 2.0 | | ng/L | 1 | 1 | | 1 | 0,91 | 07/25/2016 08:15 | 07/26/2016 21:01 | 349107 |
| Perfluoroccianoie acid (PFOA) | 537 | 4.0 | EU16-1094 Range 39 | v | 4.0 | | ng/L | l | 1 | 1 | ښد ا | 0.91 | 07/25/2016 08:15 07/26/2016 21:01 | 07/26/2016 21:01 | 349107 |
| IS-PF0A-1302 IS-PF0S-13C4 | 537 | 5.0 | EU16-1094 Range 39 | ٧ | 2.0 | | ng/L | | 1 | | 1 | 0.91 | 07/25/2016 08:15 | 07/26/2016 21:01 | 34910 |
| IS-PF0S-13C4 | 537 | Α× | EU16-1094 Range 39 | | 6827,51 | 6229.95 | ng/L | 110 | 50-150 | 1 | ı | 0.94 | 07/25/2016 08:15 | 07/26/2016 21:32 | 35014 |
| AND THE PROPERTY STATES OF THE PROPERTY OF THE | 537 | A/A | EU16-1094 Range 39 | | 3794,40 | 3762.86 | ng/L | 101 | 50 - 150 | ı | l | 0.94 | 07/25/2016 08:15 | 07/26/2016 21:32 | 35014 |
| SS-PFDA-13C2 | 537 | Z/A | EU16-1094 Range 39 | | 85,3726 | 100 | ng/L | 6 | 70-130 | | I | 0.94 | 07/25/2016 08:15 | 07/26/2016 21:32 | 35014 |
| FD SS-PFHxA-13C2 53 | 537 | N/A | EU16-1094 Range 39 | | 43.8974 | 50.0 | ng/L | 93 | 70-130 | ı | ı | 0.94 | 07/25/2016 08:15 | 07/26/2016 21:32 | 350141 |
| FD Perfluorobutanesulfonic acid (PFBS) 53 | 537 | 9.0 | EU16-1094 Range 39 | v | 9,0 | | ng/L | 1 | 1 | 1 | 1 | | 07/25/2016 08:15 | 07/26/2016 21:32 | 350141 |
| FD Perfluoroheptanoic acid (PFHpA) 53 | 537 | 1.0 | EU16-1094 Range 39 | ٧ | 1.0 | | ng/L | l | 1 | 1 | 1 | 0.94 | 07/25/2016 08:15 | 07/26/2016 21:32 | 350141 |
| FD Perfluomhexanesulfonic acid (PFHxS) 53 | 537 | 3.0 | EU16-1094 Range 39 | ٧ | 3,0 | | ng/L | 1 | 1 | ı | 1 | 0.94 | 07/25/2016 08:15 | 07/26/2016 21:32 | 350141 |
| FD Perfluorononanoic acid (PFNA) 53 | 537 | 2.0 | EU16-1094 Range 39 | ٧ | 2.0 | | ng/L | 1 | 1 | 1 | 1 | 0.94 | 07/25/2016 08:15 | 07/26/2016 21:32 | 350141 |
| FD Perfluorooctane sulfonate (PFOS) 53 | 537 | 4.0 | EU16-1094 Range 39 | ٧ | 4.0 | | ng/L | 1 | | 1 | | 0.94 | 07/25/2016 08:15 | 07/26/2016 21:32 | 350141 |
| FD Perfluorooctanoic acid (PFOA) 53 | 537 | 2.0 | EU16-1094 Range 39 | ٧ | 2.0 | | ng/L | - | 1 | 1 | - | 0.94 | 07/25/2016 08:15 07/26/2016 21:32 | 07/26/2016 21:32 | 350141 |
| FS IS-PF0A-13C2 53 | 537 | ΑŅ | EU16-1094 Range 35 | | 7046.52 | 6229,95 | ng/L | 113 | 50 - 150 | | - | 0.95 | 07/25/2016 08:15. | 07/26/2016 22:03 | 349107 |
| FS IS-PF0S-13C4 53 | 537 | ΝΆ | EU16-1094 Range 35 | | 4020,81 | 3762.86 | T/6u | 107 | 50-150 | | 1 | 0.95 | 07/25/2016 08:15 | 07/26/2016 22:03 | 349107 |
| FS (SS-PFDA-1302 55 | 537 | Α'N | EU16-1094 Range 35 | | 88.2337 | 100 | ng/L | 93 | 70-130 | | 1 | 0.95 | 07/25/2016 08:15 | 07/26/2016 22:03 | 349107 |
| FS SS-PFHxA-13C2 55 | 537 | N/A | EU16-1094 Range 35 | | 46.1679 | 50.0 | _l/gu | 97 | 70-130 | 1 | | 0.95 | 07/25/2016 08:15 | 07/25/2016 08:15 07/26/2016 22:03 | 349107 |
| FS Perfluorobutanesulfonic acid (PFBS) 53 | 537 | 9.0 | EU16-1094 Range 35 | V | 0.6 | | ng/L | 1 | | | | 0.95 | 07/25/2016 08:15 07/26/2016 22:03 | 07/26/2016 22:03 | 349107 |
| | 537 | 1.0 | EU16-1094 Range 35 | ٧ | 1.0 | | ng/L | Ì | 1 | | 1 | 0.95 | 07/25/2016 08:15 | 07/26/2016 22:03 | 349107 |
| Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | EU16-1094 Range 35 | ٧ | 3.0 | | ng/L | 1 | 1 | | 1 | 0.95 | 07/25/2016 08:15 | 07/26/2016 22:03 | 349107 |
| T. Perflubronanolc acid (PFNA) 53 | 537 | 2.0 | EU16-1094 Range 35 | ٧ | 2.0 | | ng/L | | | | | 0.95 | 07/25/2016 08:15 | 07/26/2016 22:03 | 349107 |
| Perfluoroctane sulfonate (PFOS) | 537 | 4.0 | EU16-1094 Range 35 | ٧ | 4.0 | | ng/L | ì | | | ī | 0.95 | 07/25/2016 08:15 | 07/26/2016 22:03 | 349107 |
| | 537 | 2.0 | EU16-1094 Range 35 | ν | 2.0 | | ng/L | 1 | | 1 | 1 | 0.95 | 07/25/2016 08:15 | 07/26/2016 22:03 | 349107 |
| | 537 | N/A | EU16-1094 Range 13A | | 7019.60 | 6229.95 | ng/L | 113 | 50 - 150 | 1 | I | 66.0 | 07/25/2016 08:15 | 07/26/2016 22:34 | 349107 |

| | | | 经营销的 | | 300 | QC Summary Report (cont. | sort (cont.) | | | | | | | | | |
|----------------|--------------------------------------|--------|-------------|--|--|--------------------------|--------------|-------|---------------|--------------------|-------|--------------|---------------|------------------|-------------------------|-----------|
| Sample Type | Analyte | Method | MRL | Client ID | Result Flag | Amount | Target | Units | % Recovery | Recovery Limits | / RPD | RPD Limit | Dil Factor | Extracted | Analyzed | EEA D# |
| R.S. | IS-PFOS-13C4 | 537 | N/A | EU16-1094 Range 13A | | 3954.72 | 3762.86 | ng/L | 105 | 50 - 150 | | | 0.99 | 07/25/2016 08:15 | 07/26/2016 22:34 | 3491075 |
| S. | SS-PFDA-13C2 | 537 | A/A | EU16-1094 Range 13A | | 88.9757 | 100 | ng/L | 90 | 70-130 | I | ı | 66.0 | 07/25/2016 08:15 | 07/26/2016 22:34 349107 | 3491075 |
| ES. | SS-PFHXA-13C2 | 537 | ΑN | EU16-1094 Range 13A | | 48.3812 | 50.0 | ng/L | 86 | 70-130 | ı | I | 0.99 | 07/25/2016 08:15 | 07/26/2016 22:34 | 3491075 |
| FS | Perfluorobutanesuffonic acid (PFBS) | 537 | 0.6 | EU16-1094 Range 13A | ٧ | 0.6 | | ng/L | | | 1 | I | 0.99 | 07/25/2016 08:15 | 07/26/2016 22:34 | 3491075 |
| FS | Perfluoroheptanoic acid (PFHpA) | 537 | 1,0 | EU16-1094 Range 13A | ٧ | 1.0 | | ng/L | 1 | 1 | ŀ | I | 0.99 | 07/25/2016 08:15 | 07/26/2016 22:34 | 3491075 |
| 53 | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | EU16-1094 Range 13A | ٧ | 3.0 | | ng/L | 1 | Ī | 1 | | 0.99 | 07/25/2016 08:15 | 07/26/2016 22:34 | 3491075 |
| FS | Perfluorononanoic acid (PFNA) | 537 | 2.0 | EU16-1094 Range 13A | ٧ | 2.0 | | ng/L | | | | | 0.99 | 07/25/2016 08:15 | 07/26/2016 22:34 | 3491075 |
| S. | Perfluoroctane sulfonate (PFOS) | 537 | 4.0 | EU16-1094 Range 13A | ٧ | 4.0 | | ng/L | 1 | 1 | 1 | I | 0.99 | 07/25/2016 08:15 | 07/26/2016 22:34 | 3491075 |
| FS | Perfuoroctanoic acid (PFOA) | 537 | 2.0 | EU16-1094 Range 13A | V | 2.0 | | ng/L | | | I | 1 | 66.0 | 07/25/2016 08:15 | 07/26/2016 22:34 | 3491075 |
| FS | 1S-PFOA-13C2 | 537 | Α'n | EU16-1094 Range 23 | | 6981.06 | 6229.95 | ng/L | 112 | 50 - 150 | l | | 0.99 | 07/25/2016 08:15 | 07/26/2016 23:04 | 3491077 |
| FS | IS-PFOS-13C4 | 537 | ΑΝ | EU16-1094 Range 23 | | 3979.94 | 3762.86 | mg/L | 106 | 50-150 | 1 | 1 | 0.99 | 07/25/2016 08:15 | 07/26/2016 23:04 | 3491077 |
| FS | SS-PFDA-13C2 | 537 | N/A | EU16-1094 Range 23 | | 92.6719 | 100 | ng/L | 94 | 70-130 | 1 | 1 | 0.99 | 07/25/2016 08:15 | 07/26/2016 23:04 | 3491077 |
| FS | \$S-PFHXA-13C2 | 537 | NA | EU16-1094 Range 23 | | 48.9344 | 50.0 | ng/L | 66 | 70-130 | | 1 | 0.99 | 07/25/2016 08:15 | 07/26/2016 23:04 | 3491077 |
| FS | Perfluorobutanesuffonic acid (PFBS) | 537 | 9.0 | EU16-1094 Range 23 | ٧ | 0.6 | | ng/L | | | | ı | 0.99 | 07/25/2016 08:15 | 07/26/2016 23:04 | 3491077 |
| FS | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | EU16-1094 Range 23 | v | 1.0 | | ng/L | | | | 1 | 0.99 | 07/25/2016 08:15 | 07/26/2016 23:04 | 3491077 |
| FS | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | EU16-1094 Range 23 | ٧ | 3.0 | | ng/L | 1 | 1 | 1 | ı | 0.99 | 07/25/2016 08:15 | 07/26/2016 23:04 | 3491077 |
| FS | Perfluorononanoic acid (PFNA) | 537 | 2.0 | EU16-1094 Range 23 | ٧ | 2.0 | | _ng/L | 1 | 1 | | 1 | 0.99 | 07/25/2016 08:15 | 07/26/2016 23:04 | 3491077 |
| FS | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | EU16-1094 Range 23 | ٧. | 4.0 | | ng/L | 1 | 1 | 1 | 1 | 0.99 | 07/25/2016 08:15 | 07/26/2016 23:04 | 3491077 |
| ST. | Perfluorocctanoic acid (PFOA) | 537 | 2.0 | EU16-1094 Range 23 | ٧ | 2.0 | | ng/L | | 1 | 1 | 1 | 0.99 | 07/25/2016 08:15 | 07/26/2016 23:04 | 3491077 |
| MOO | IS-PFOA-13C2 | 537 | Ϋ́ | And the second of the second o | The state of the s | 6799,00 | 6239 | ng/L | 199 | 50 - 150 | 1 | l | 1.0 | 07/21/2016 14:00 | 07/26/2016 23:35 | 3501437 |
| N O | IS-PF0S-13C4 | 537 | A/A | A STATE OF THE STA | | 3573.84 | 3573.84 | ng/L | 100 | 50 - 150 | | ı | 1.0 | 07/21/2016 14:00 | 07/26/2016 23:35 | 3501437 |
| COM | SS-PFDA-13C2 | 537 | ₹ Z | mayor . | | 90,7555 | 100 | ng/L | 91 | 70 - 130 | | ı | 1.0 | 07/21/2016 14:00 | 07/26/2016 23:35 | 3501437 |
| MOO | SS-PFHxA-13C2 | 537 | Α× | | | 48,3763 | 50.0 | ng/L | 97 | 70-130 | | | 1.0 | 07/21/2016 14:00 | 07/26/2016 23:35 | 3501437 |
| MOO | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | | | 693.2190 | 675 | ng/L | 103 | 70 - 130 | | 1 | 1.0 | 07/21/2016 14:00 | 07/26/2016 23:35 | 3501437 |
| NOO | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | | | 72.5079 | 75.0 | ng/L | 97 | 70-130 | 1 | 1 | 1.0 | 07/21/2016 14:00 | 07/26/2016 23:35 | 3501437 |
| MOO | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | | | 226.7840 | 225 | ng/L | 101 | 70 - 130 | | | 1.0 | 07/21/2016 14:00 | 07/26/2016 23:35 | 3501437 |
| ₩ OC | Perfluorononanoic acid (PFNA) | 537 | 2.0 | | | 142.4010 | 150 | ng/L | 95 | 70-130 | 1 | 1 | 1.0 | 07/21/2016 14:00 | 07/26/2016 23:35 | 3501437 |
| MOS | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | | | 304.1390 | 300 | ng/L | 101 | 70 - 130 | 1 | I | 1.0 | 07/21/2016 14:00 | 07/26/2016 23:35 | 3501437 |
| № | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | | | 146.9130 | 150 | ng/L | 86 | 70 - 130 | | | 1.0 | 07/21/2016 14:00 | 07/26/2016 23:35 | 3501437 |
| FS | 1S-PFOA-13C2 | 537 | A/A | EU16-1094 2723 | | 6977.48 | 6229 | ng/L | 103 | 50 - 150 | | | 0.94 | 07/25/2016 08:15 | 07/27/2016 03:10 | 3491079 |
| FS | S-PF0S-13C4 | 537 | ΑΝ | EU16-1094 2723 | | 3902.11 | 3573.84 | _ng/L | 109 | 50-150 | | 1 | 0.94 | 07/25/2016 08:15 | 07/27/2016 03:10 | 3491079 |
| FS | SS-PFDA-13C2 | 537 | N/A | EU16-1094 2723 | | 82.5958 | 100 | ng/L | 88 | 70-130 | | | 0.94 | 07/25/2016 08:15 | 07/27/2016 03:10 | 3491079 |
| FS | SS-PFHxA-13C2 | 537 | N/A | EU16-1094 2723 | | 45,1860 | 50.0 | ng/L | 98 | 70 - 130 | | ı | 0.94 | 07/25/2016 08:15 | 07/27/2016 03:10 | 3491079 |
| £ | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | EU16-1094 2723 | ٧ | 0'6 | | ng/L | | 1 | | | 0.94 4 | 07/25/2016 08:15 | 07/27/2016 03:10 | 3491079 |
| FS | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | EU16-1094 2723 | y | 1,0 | | ng/L | | 1 | | | 46.0 | 07/25/2016 08:15 | 07/27/2016 03:10 | 3491079 |
| FS | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | EU16-1094 2723 | ٧ | 3.0 | | ng/L | 1 | 1 | 1 | ı | 0.94 | 07/25/2016 08:15 | 07/27/2016 03:10 | 3491079 |
| ស | Perfluorononanoic acid (PFNA) | 537 | 2.0 | EU16-1094 2723 | ¥ | 2.0 | | ng/L | | | I | 1 | 0.94 | 07/25/2016 08:15 | 07/27/2016 03:10 | 3491079 |
| FS. | Perfluoroctane sulfonate (PFOS) | 537 | 4.0 | EU16-1094 2723 | ٧ | 4.0 | | ng/L | | | | | 0.94 | 07/25/2016 08:15 | 07/27/2016 03:10 349107 | 3491079 |
| eg ag | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | EU16-1094 2723 | ٧ | 2.0 | | ng/L | 1 | 1 | 1 | 1 | 0.94 | 07/25/2016 08:15 | 07/27/2016 03:10 | 3491079 |
| က e 1 | 1S-PFOA-13C2 | 537 | N/A | EU16-1094 2792 | -pare | 6790.62 | 6629 | ng/L | 100 | 50 - 150 | | | 1.0 | 07/25/2016 08:15 | | 3491081 |
| က 7 ၀ | IS-PFOS-13C4 | 537 | N/A | EU16-1094 2792 | | 3770.89 | 3573.84 | ng/L | 106 | 50 - 150 | | I | 1.0 | 07/25/2016 08:15 | 07/27/2016 03:41 | 3491081 |
| 2 | - A - E E | | | | | | | | | L | ļ | <u>[</u> | 7 | - VLL / V | 0 | 1 |

| Page | | | State of the second second second second | | | | | | | | | | | | | | |
|--|----------------|--------------------------------------|--|----------|--|----------------|-----------|---------|--------|--------------|----------|--------|-----------|---------------|------------------|-----------------|---------------|
| Septimental Service (Control of Service (Co | Sample Type | Analyte | Method | MRL | Client ID | Resuft Flag | Amount | Target | Units | % Recover | لنسط | | | Dii Factor | Extracted | Analyzed | EEA ID# |
| Profitational participation September | FS | SS-PFDA-13C2 | 537 | ≸ | EU16-1094 2792 | | 91,1993 | 100 | ng/L | 91 | 70-130 | | | 1.0 | 07/25/2016 08:15 | | # / //S* \$3 |
| Profunciamentality (Prof. 1) (2011) (1912) (| FS | SS-PFHxA-13C2 | 537 | ΝΆ | EU16-1094 2792 | | 47.4887 | 50.0 | ng/L | 95 | 70-130 | 1 | 1 | 1.0 | 07/25/2016 08:15 | | 3491081 |
| Prefunementation set (Princi) State 1.0 Discripting 20 Discripting 2 | 55 | Perfluorobutanesulfonic acid (PFBS) | 537 | 9.0 | EU16-1094 2792 | v | 9.0 | | ng/L | 1 | | 1 | 1 | 1.0 | 07/25/2016 08:15 | | |
| Printentenessation aid (FFE) St. 20 Chief-Host 2012 C. 2.0 C. 2.0 Chief-Host 2012 C. 2.0 | SH | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | EU16-1094 2792 | ٧ | 1.0 | | пg/L | | | 1 | | 1.0 | 07/25/2016 08:15 | 8000 | 2 |
| Particionemente antigration (POS) ST 2 Califorda 2772 Califorda | S. | Perfluorohexanesultonic acid (PFHxS) | 537 | 3.0 | EU16-1094 2792 | v | 3.0 | | ngA | 1 | I | |] | 1.0 | 07/25/2016 08:15 | | 100000 |
| Purposectation attitudes 257 24 24 24 24 24 24 24 2 | FS | Perfluorononanoic acid (PFNA) | 537 | 2.0 | EU16-1094 2792 | v | 2.0 | | пдЛ | ı | ı | - | ı | 1.0 | 07/25/2016 08:15 | | 100 |
| Particulation of the particular of the particu | FS | Perfluorooctane suffonate (PFOS) | 537 | 4.0 | EU16-1094 2792 | v | 4.0 | | ng/L | 1 | 1 | l | 1 | 1.0 | 07/25/2016 08:15 | | 300 |
| Professional Control | FS | Perfluoroctanoic acid (PFOA) | 537 | 2.0 | EU16-1094 2792 | ٧ | 2.0 | | ng/L | l | ı | 1 | 1 | 1.0 | 07/25/2016 08:15 | | 1722 |
| Performance and Physics SST NA Euclicida 2017 SASSEZ SATA SAL | FS | IS-PFOA-13C2 | 537 | N/A | EU16-1094 2701 | | 7230.23 | 67.69 | ng/L | 106 | 50 - 150 | | l api | 0.92 | 07/25/2016 08:15 | | |
| Profit Control Contr | FS | IS-PFOS-13C4 | 537 | N/A | EU16-1094 2701 | | 3956,52 | 3573.84 | ng/L | 111 | 50 - 150 | 1 | l | 0.92 | 07/25/2016 08:15 | | 4 4. A. M. |
| Particular Content of Particular Content o | 23 | SS-PFDA-13C2 | 537 | Ϋ́ | EU16-1094 2701 | | 78.2528 | 100 | . ng/L | 82 | 70-130 | 1 | 1 | 0.92 | 07/25/2016 08:15 | ***** | |
| Perfuserotiente autificie 471-870 | FS | SS-PFHXA-13C2 | 537 | N/A | EU16-1094 2701 | | 42,7452 | 50.0 | ng/L | 93 | 70-130 | | 1 | 0.92 | 07/25/2016 08:15 | | - San company |
| Perfuncionamenta está (PFI)-july SST 1.0 BUI-0-0-4-1701 < 1.0 mg/L | FS | Perfluorobutanesulfonic acid (PFBS) | 537 | 0.6 | EU16-1094 2701 | ٧ | 9.0 | | _ng/L | 1 | ì | 1 | 1 | 0.92 | 07/25/2016 08:15 | | 100 |
| Perfluencementalitene etal (PFNA) SSY 2.0 EU14-104-2701 < 2.0 mode of the control | FS | Perfluoroheptanoic acid (PFHpA) | 537 | 1:0 | EU16-1094 2701 | ٧ | 1.0 | | ng/L | 1 | 1 | ij | 1 | 0.92 | 07/25/2016 08:15 | ********* | |
| Perfluencedare sulfronse (PFOA) SST | FS | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | EU16-1094 2701 | ٧ | 3.0 | | ng/L | 1 | 1 | | l | 0.92 | 07/25/2016 08:15 | | Control of |
| Perfluencedance sufficience (PFCS) 587 2.0 EU16-1064-2701 4. | स | Perfluorononanoic acid (PFNA) | 537 | 2.0 | EU16-1094 2701 | ٧ | 2.0 | | ng/L | 1 | 1 | 1 | 1 | 0.92 | 07/25/2016 08:15 | | 100.5 |
| Perfunce columbic acid (PFCA) 587 220 EU16-1084-1775 4.0 | FS | Perfluoroctane sulfonate (PFOS) | 537 | 4.0 | | ٧ | 4.0 | | ng/L | 1 | 1 | J T | 1 | 0.92 | 07/25/2016 08:15 | | la arrian |
| September Sept | F. | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | EU16-1094 2701 | ٧ | 2.0 | | ng/L | 1 | 1 | | 1 | 0.92 | 07/25/2016 08:15 | | |
| Perfectors SST NA EU16-1094-1775 St. 2 St. | FS | IS-PFOA-13C2 | 537 | Ϋ́ | EU16-1094 4775 | | 7449.48 | 6629 | пg/L | 110 | 50 - 150 | | | 0.97 | 07/25/2016 08:15 | | 160 |
| SS-PFDA-13C2 SS7 NA EU16-1094-4775 S1 2819 100 ng/L 640 70 - 10 0.97 707250016 0845 707250016 0845 70727016 0444 70 - 10 0.04 70 - 10 0.04 707250016 0845 70727016 0444 70 - 10 0.04 707250016 0845 70727016 0444 70 - 10 0.04 70727016 0444 70 - 10 0.04 70727016 0444 70 - 10 0.04 70727016 0444 70 - 10 0.04 70727016 0444 70 - 10 0.04 70727016 0444 70 - 10 0.04 70727016 0444 70 - 10 0.04 70727016 0444 70 - 10 0.04 70727016 0444 70 - 10 0.04 70727016 0444 70 - 10 0.04 70727016 0444 70 - 10 0.04 70727016 0444 70 - 10 0.04 70727016 0444 70 - 10 0.04 70727016 0444 707 | FS | IS-PFOS-13C4 | 537 | Αχ | | | 4056.24 | 3573.84 | ng/L | 113 | 50 - 150 | 1 | 1 | 76.0 | 07/25/2016 08:15 | | |
| Perfluocobtance sulfronte (PFS) SST NIA EU16-1094 4775 < 9.0 mg/L S. 70 - 13 0 0 0 0 0 0 0 0 0 | FS | SS-PFDA-13C2 | 537 | Ϋ́ | | | 81.2819 | 100 | ng/L | 2 | 70 - 130 | 1 | 1 | 76.0 | 07/25/2016 08:15 | | |
| Perfluctorbutamentinicia add (PFBS) 537 1.0 EU16-10944775 c 1.0 mg/L m | FS | SS-PFHXA-13C2 | 537 | Ϋ́ | EU16-1094 4775 | - | 44.5903 | 50.0 | ng/L | 35 | 70-130 | 1 | 1 | 76.0 | 07/25/2016 08:15 | | |
| Perflucioncheplanicia add (PFHAA) 537 1.0 EU16-1094 4775 4 3.0 1 | FS | Perfluorobutanesutfonic acid (PFBS) | 537 | 9.0 | EU16-1094 4775 | ٧ | 0'6 | | ng/L | - | 1 | | | 0.97 | 07/25/2016 08:15 | 3 w. | |
| Perfluonolexamesulfonic add (PFNA) 637 3.0 EU16-1094 4775 4 3.0 mg/L — | 53 | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | EU16-1094 4775 | ٧ | 1.0 | | J/GL | l | l | | 1 | 0.97 | 07/25/2016 08:15 | | |
| Perfluctonomanicia add (PFNA) 537 2.0 EU16-1094 775 < 4.0 ngl. 0.97 07/25/2016 08-15 07/27/2016 04-24 07/25/2016 08-15 07/27/2016 04-24 07/25/2016 08-15 07/27/2016 04-24 07/25/2016 08-15 0 | FS | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | EU16-1094 4775 | ٧ | 3.0 | | ng/L | Ι | ı | 1 | 1 | 0.97 | 07/25/2016 08:15 | 1, | W |
| Perfluctococtaine sulfronte (PFGS) 537 4.0 EU16-10944775 < 4.0 Ingl. I | FS | Perfluorononanoic acid (PFNA) | 537 | 2.0 | | ٧ | 2.0 | | ng/L | | l | | | 0.97 | 07/25/2016 08:15 | | |
| Perfluctoroctanoic acid (PFOA) 537 2.0 EU16-1094-4775 < 2.0 mg/L | £ | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | EU16-1094 4775 | ν | 4.0 | | ng/L | 1 | 1 | | l .vis | 0.97 | 07/25/2016 08:15 | | |
| SSPFDA-13CZ S37 N/A | FS | Perfluorooctanoic acid (PFOA) | 537 | 2.0 | | v | 2.0 | | ng/L | 1 | 1 | I | I | 0.97 | 07/25/2016 08:15 | | * A.A. |
| SS-PPDA-1322 S37 N/A | 중 | IS-PFOA-13CZ | 537 | N/A | | | 6193,44 | 6193,44 | ng/L | 100 | 50 - 15(| | 1 | 1.0 | 07/21/2016 14:00 | | 12:000 |
| SS-PTDA-1322 537 N/A — P1.4480 100 ng/L 91 70-130 — 1.0 07/21/2016 14:00 07/27/2016 09:50 | 돵 | IS-PF0S-13C4 | 537 | N/A | | | 3211,80 | 3211.8 | ng/L | 100 | 50-15(| | 1 | 1.0 | 07/21/2016 14:00 | ****** | **** |
| Perfluctoroutementationic acid (PFRS) | 돵 | SS-PFDA-13C2 | 537 | Ϋ́N | 1 | | 91,4480 | 100 | ng/L | 91 | 70-130 | | 1 | 0, | 07/21/2016 14:00 | | 100 |
| Perfluorobutianssulfonic acid (PFRS) 537 9.0 — 117,5100 1125 ng/L 98 70-130 — 1.0 07/27/2016 14:00 07/27/2016 19:50 Perfluorobutiansic acid (PFIPA) 537 1.0 — 1.0 — 1.0 — 1.0 07/27/2016 14:00 07/27/2016 19:50 Perfluorobexanesulfonic acid (PFIPA) 537 3.0 — 235,1780 250 ng/L 103 70-130 — 1.0 07/27/2016 19:50 Perfluorocidane sulfonite (PFOS) 537 4.0 — 235,1780 250 ng/L 94 70-130 — 1.0 07/27/2016 14:00 07/27/2016 09:50 Perfluorocidane sulfonite (PFOS) 537 4.0 — 235,1780 500 ng/L 94 70-130 — 1.0 07/21/2016 14:00 07/21/2016 14:00 07/21/2016 14:00 07/21/2016 14:00 07/21/2016 14:00 07/21/2016 14:00 07/21/2016 14:00 07/21/2016 14:00 07/21/2016 14:00 07/21/2016 14:00 07/21/2016 14:00 07/21/2016 14:00 07/21/2016 14:00 | 용 | SS-PFHxA-13C2 | 537 | ΑΝ | - | | 50,0916 | 50.0 | ng/L | 100 | 70-13 | | 1 | 1.0 | 07/21/2016 14:00 | 07/27/2016 09:5 | |
| Perfluorohexanesulfonic acid (PFHpA) 537 1.0 — 122.3256 125 ng/L 98 70-130 — 1.0 07/27/2016 14:00 07/27/2016 14:00 07/27/2016 09:50 Perfluorohexanesulfonic acid (PFHpA) 537 3.0 — 1.0 1.0 07/27/2016 14:00 07/27/2016 14:00 07/27/2016 14:00 07/27/2016 09:50 Perfluorocidane sulfonate (PFOA) 537 4.0 — 235,7480 550 ng/L 101 70-130 — 1.0 07/27/2016 14:00 07/27/2016 09:50 Perfluorocidane sulfonate (PFOA) 537 4.0 — 4.0 70-130 — 1.0 07/21/2016 14:00 07/27/2016 09:50 Perfluorocidane sulfonate (PFOA) 537 2.0 — 250,7660 250 ng/L 100 70-130 — 1.0 07/21/2016 14:00 07/21/2016 14:00 07/21/2016 14:00 07/21/2016 14:00 07/21/2016 14:00 07/21/2016 14:00 07/21/2016 14:00 07/21/2016 14:00 07/21/2016 14:00 07/21/2016 14:00 07/21/2016 14:00 07/21/2016 14:00 07/21/2016 14: | 돵 | Perfluorobutanesuffonic acid (PFBS) | 537 | 9.0 | 1 | | 1117,6100 | 1125 | ng/L | 66 | 70 - 13 | | 1 | 1.0 | 07/21/2016 14:00 | Dr. cray | |
| Perfluoroblexanesulfunic acid (PFHXs) 537 3.0 — 386.5150 375 ng/L 103 70-130 — 1.0 07/27/2016 14:00 07/27/2016 09:50 Perfluoroblexanesulfunic acid (PFNA) 537 4.0 — 2.0 100 100 1.0 07/27/2016 14:00 07/27/2016 09:50 Perfluorocidane sulfinate (PFOA) 537 4.0 — 507.4830 500 ng/L 101 70-130 — 1.0 07/21/2016 14:00 | 용 | Perfluoroheptanoic acid (PFHpA) | 537 | 1.0 | The state of the s | | 122.3250 | 125 | ugv | 86 | 70-130 | | 1 | 1,0 | 07/21/2016 14:00 | | 3501438 |
| Perflucionomanolo acid (PFNA) 537 2.0 — 235,1780 250 ng/L 94 70±,130 — 1.0 07/21/2016 14:00 | 용 | Perfluorohexanesulfonic acid (PFHxS) | 537 | 3.0 | | | 386,5150 | 375 | ng/L | 103 | 70 - 130 | | | 1.0 | 07/21/2016 14:00 | | |
| Perfluorocdane sulfonate (PFOS) 537 4.0 — 507.4830 500 ng/L 101 70-130 — 1.0 07/21/2016 14:00; 07/27/2016 16:350 Perfluorocdanoic acid (PFOA) 537 2.0 — 250,7650 250 Ng/L 100 70-130 — 1.0 07/21/2016 14:00; 07/27/2016 09:50 | 용 | Perfluorononanoic acid (PFNA) | 537 | 2.0 | The second secon | | 235.1780 | 250 | T/6u | 94 | 70-13 | 1 | 1 | 1.0 | 07/21/2016 14:00 | | 3501438 |
| Perfuonoctangio acid (PFOA) 557 2.0 1.0 | 당 | Perfluorooctane sulfonate (PFOS) | 537 | 4.0 | | | 507.4830 | 200 | ng/L | 101 | 70 - 13 | 1 | 1 | 1.0 | 07/21/2016 14:00 | | |
| | E E | Perfluoroctanoic acid (PEOA) | 537 | 2.0 | | | 250.7650 | 250 | ng/L | 100 | 70-13 | 1 | 1 | 1.0 | 07/21/2016 14:00 | 07/27/2016 09:5 | 0 3501438 |

| | Т | | | | | | | | |
|-----------------|----------------|----------------------------|----------------------------|-----------------|--------------|----------------------|---------------------|---------------------|-------------------------|
| | Sample Type | 1 | | | | | | | |
| /pe Key | Type (Abbr.) | | | | | | | | |
| Sample Type Key | | | | | | | | | |
| | | | | | | | | | |
| | Sample Type | Continuing Calibration Low | Continuing Calibration Mid | Field Duplicate | Field Sample | Fortified Blank High | Fortified Blank Low | Fortified Blank Mid | aboratory Reagent Blank |
| | Type (Abbr.) S | , , | CCM | _ | FS | FBH | FBL | FBM | LRB |

END OF REPORT

errofins eurofins

3ILL TO:

Eaton Analytical

110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207

Order #299712

Batch #

ЭМІТ ОИЛОЯАИЯО.

ONLY MARKINIBIONE 15 DOSTANE MATRIX CODE LAB RESERVES THE RIGHT TO RETURN UNIVSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT ซ ス ď # OF CONTAINERS ላ d CHLORINATED Page ___ ö YES SAMPLE REMARKS CIN CLOS SUNS STATE (sample origin) | PROJECT NAME मामि 1094 SOURCE WATER BE CHAIN OF CUSTODY RECORD **TEST NAME** LAB COMMENTS POPULATION SERVED # OI SMd PFCL TO ME TIME 7/12/10-1 DATE £ 13A 13A held Blank 23 23 Field Blank 35 Field Blank Field Blank Field Blank 48 Field Black SAMPLING SITE Feld Blank Dive Covere RECEIVED BY:(Signature) # Range 44 Kange 39 Range 39 SAMPLER (Signature) 4 Range 35 COMPLIANCE a string - yourse conversables coin Ranse Range Range Savige Range Karge 2723 AM PM TME AM) 860 70 mck Ay 15-601 COLLECTION 0880 0930 1040 145 =£ 088 1355 TIME 5.50 1315 Ξ Ω 220 1315 Shaded area for EEA use only 1/13/16 DATE Oline (J)XLLL RELINQUISHED BY:(Signature) (ELINQUISHED BY:(Signature) The Contraction of Corell exsuit to www.EurofinsUS.com/Eaton LAB Number

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06-LO-F0435 issue 5.0 Effective Date: 2016-01-20 Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material afterations and are rejected unless expressly agree to in writing by EEA. DW-DRINKING WATER
RW-REAGENT WATER
GW-GSOUND WATER
EW-GXPOSURE WATER
SW-SURFOG WATER
PW-POOL WATER
WW-WASTE WATER

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°C Upon Receipt

Ambient

lead: Wet/Blue

CONDITIONS UPON RECEIPT (check one):

AM PM TIME

DATE

RECEIVED FOR LABORATORY BY:

AM PM

DATE

RELINQUISHED BY:(Signature)

TURN-AROUND TIME (TAT) - SURCHARGES

MATRIX CODES:

AM PM

Š 50 X 75%

SW = Standard Written: (15 working days) W" = Rush Written: (5 working days) RV* = Rush Verbal: (5 working days)

Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges.

켷 됳 25.7 100%

M" =immediate Written: (3 working days)

STAT" = Less than 48 hours

SP* = Weekend, Holiday

N = Immediate Verbal: (3 working days)

AM PM

e eurofins

REPORT TO:

BILL TO

Order #299712

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TURNAROUND TIME

OF CONTAINERS

ANTRIX CODE

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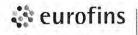
110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207

CHLORINATED YES | NO Page ____ **В** Batch # SAMPLE REMARKS STATE (sample origin) | PROJECT NAME SOURCE WATER well CHAIN OF CUSTODY RECORD TEST NAME POPULATION SERVED LAB COMMENTS (전) W 운 SAMPLING SITE Black ŝ Black Blown Bire Covere Mator Aralytical RECEIVED BY:(Signature) Field Field SAMPLER (Signature) nela COMPLIANCE 2792 4775 2792 2701 2701 4775 AM PM TIME COLLECTION 1455 1450 1450 DATE 1425 0141 97 Shaded area for EEA use only 1/2/10 DATE www.EurofinstJS.com/Eaton

LAB Number

ONN MANAID BLANK IT BOTHING 06-LO-F0435 Issue 5.0 Effective Date: 2016-01-20 LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT ş Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges. °C:Upon Receipt Icad; Wat/Blue Ambient CONDITIONS UPON RECEIPT (check one): ₹ 됳 42, 100 X Mr =(mmediate Written: (3 working days) IV = Immediate Verbal: (3 working days) AM PM TIME AM (PW STAT" = Less than 48 hours Ы SP = Weekend, Holiday 2 DATE Please call, expedited service not available for all testing RECEIVED FOR LABORATORY BY: TURN-AROUND TIME (TAT) - SURCHARGES ķ SW = Standard Written: (15 worlding days) RW* = Rush Written: (5 working days) RV* = Rush Verbal: (5 working days) るので AM PM TIME 1/2/16 DATE RELINQUISHED BY:(Signature) HOW AYELL RELINQUISHED BY:(Signature) MATRIX CODES: DW-DRINKING WATER
RW-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
PW-POOL WATER
PW-POOL WATER
WW-WASTE WATER

UC-10-FI435 Issue 5.0 Effective Date: 2016-01-20 Sample analysis will be provided according to the standard EEAWater Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agree to in writing by EEA.



Eaton Analytical

110 South Hill Street South Bend, IN 46617 Tel: (574) 233-4777 Fax: (574) 233-8207 1 800 332 4345

Laboratory Report

Converse Laboratories Client:

Report:

371169

Attn:

Priority:

Standard Written

Donna Zang 800 Starbuck Ave, Suite B101

Status:

Final

Watertown, NY 13601

PWS ID:

Not Supplied

Lab ELAP #:

11398

| | | Sample Information | | | |
|------------|-------------|--------------------|--------------------------|------------------|-------------------------|
| EEA ID# | Client ID | Method | Collected Date / Time | Collected By: | Received Date / Time |
| 3530851 | 22771-17DSP | 537 | 08/23/16 09:40 | Client | 08/24/16 08:30 |
| 3530853 | 22609-13ASP | 537 | 08/23/16 10:15 | Client | 08/24/16 08:30 |
| 3530855 | 23051-14GSP | 537 | 08/23/16 10:40 | Client | 08/24/16 08:30 |

Detailed quantitative results are presented on the following pages. The results presented relate only to the samples provided for analysis.

We appreciate the opportunity to provide you with this analysis. If you have any questions concerning this report, please do not hesitate to call Kelly Trott at (574) 233-4777.

Note: This report may not be reproduced, except in full, without written approval from EEA.

Willia Ysott Aralytical Services Harasyer Title

09/30/2016

Date

Authorized Signature

Converse Laboratories

Report #:

Client Name:

371169

Page 1 of 3

Client Name: Converse Laboratories Report #: 371169

Sampling Point: 22771-17DSP

PWS ID: Not Supplied

| | | | EEA Met | hods | | | | | |
|----------------|--------------------------------------|--------|--------------|------|--------|-------|---------------------|------------------|------------|
| Analyte ID# | Analyte | Method | Reg Limit | MRL† | Result | Units | Preparation Date | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | | 2.5 | < 2.5 | ng/L | 09/04/16 00:00 | 09/07/16 08:14 | 3530851 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | - | 2.5 | < 2.5 | ng/L | 09/04/16 00:00 | 09/07/16 08:14 | 3530851 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | | 2.5 | < 2.5 | ng/L | 09/04/16 00:00 | 09/07/16 08:14 | 3530851 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | | 2.5 | < 2.5 | ng/L | 09/04/16 00:00 | 09/07/16 08:14 | 3530851 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | - | 2,5 | < 2.5 | ng/L | 09/04/16 00:00 | 09/07/16 08:14 | 3530851 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | | 2.5 | < 2.5 | ng/L | 09/04/16 00:00 | 09/07/16 08:14 | 3530851 |

Sampling Point: 22609-13ASP

PWS ID: Not Supplied

| | | | EEA Met | hods | | | | | |
|----------------|--------------------------------------|--------|--------------|------|--------|-------|-------------------------------------|----------------|---------|
| Analyte ID# | Analyte | Method | Reg Limit | MRL† | Result | Units | nits Preparation Analyzed Date Date | | |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | | 2.5 | < 2.5 | ng/L | 09/04/16 00:00 | 09/07/16 08:57 | 3530853 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | - | 2.5 | < 2.5 | ng/L | 09/04/16 00:00 | 09/07/16 08:57 | 3530853 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | | 2.5 | < 2.5 | ng/L | 09/04/16 00:00 | 09/07/16 08:57 | 3530853 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | | 2.5 | < 2.5 | ng/L | 09/04/16 00:00 | 09/07/16 08:57 | 3530853 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 2.5 | < 2.5 | ng/L | 09/04/16 00:00 | 09/07/16 08:57 | 3530853 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | | 2.5 | < 2.5 | ng/L | 09/04/16 00:00 | 09/07/16 08:57 | 3530853 |

Sampling Point: 23051-14GSP

PWS ID: Not Supplied

| | | | EEA Met | hods | | | | | |
|----------------|--------------------------------------|--------|--------------|------|---|------|----------------|------------------|------------|
| Analyte ID# | Analyte | Method | Reg Limit | MRL† | 그 마루를 내려 내가 있는 것이 없는데 나를 가장하는데 하는데 그리고 있다면 하는데 그리고 있다면 하는데 나를 가장하는데 다른데 나를 가장하는데 다른데 다른데 다른데 다른데 다른데 다른데 다른데 다른데 다른데 다른 | | | Analyzed Date | EEA ID# |
| 375-73-5 | Perfluorobutanesulfonic acid (PFBS) | 537 | | 2.5 | < 2.5 | ng/L | 09/04/16 00:00 | 09/07/16 09:40 | 3530855 |
| 375-85-9 | Perfluoroheptanoic acid (PFHpA) | 537 | | 2,5 | < 2.5 | ng/L | 09/04/16 00:00 | 09/07/16 09:40 | 3530855 |
| 355-46-4 | Perfluorohexanesulfonic acid (PFHxS) | 537 | | 2.5 | < 2.5 | ng/L | 09/04/16 00:00 | 09/07/16 09:40 | 3530855 |
| 375-95-1 | Perfluorononanoic acid (PFNA) | 537 | | 2,5 | < 2.5 | ng/L | 09/04/16 00:00 | 09/07/16 09:40 | 3530855 |
| 1763-23-1 | Perfluorooctane sulfonate (PFOS) | 537 | | 2.5 | < 2.5 | ng/L | 09/04/16 00:00 | 09/07/16 09:40 | 3530855 |
| 335-67-1 | Perfluorooctanoic acid (PFOA) | 537 | - | 2.5 | < 2.5 | ng/L | 09/04/16 00:00 | 09/07/16 09:40 | 3530855 |

† EEA has demonstrated it can achieve these report limits in reagent water, but can not document them in all sample matrices.

| | | · | gor/mentanananananananananananananananananana |
|------------------|-----|------|---|
| Reg Limit Type: | MCL | SMCL | AL |
| Reg Lillie Type. | | | |
| Symbol: | * | ٨ | |

Report #: 371169

Client Name: Converse Laboratories

Lab Definitions

Continuing Calibration Check Standard (CCC) / Continuing Calibration Verification (CCV) / Initial Calibration Verification Standard (ICV) / Initial Performance Check (IPC) - is a standard containing one or more of the target analytes that is prepared from the same standards used to calibrate the instrument. This standard is used to verify the calibration curve at the beginning of each analytical sequence, and may also be analyzed throughout and at the end of the sequence. The concentration of continuing standards may be varied, when prescribed by the reference method, so that the range of the calibration curve is verified on a regular basis. CCL, CCM, and CCH are the CCC standards at low, mid, and high concentration levels, respectively.

Internal Standards (IS) - are pure compounds with properties similar to the analytes of interest, which are added to field samples or extracts, calibration standards, and quality control standards at a known concentration. They are used to measure the relative responses of the analytes of interest and surrogates in the sample, calibration standard or quality control standard.

Laboratory Duplicate (LD) - is a field sample aliquot taken from the same sample container in the laboratory and analyzed separately using identical procedures. Analysis of laboratory duplicates provides a measure of the precision of the laboratory procedures.

Laboratory Fortified Blank (LFB) / Laboratory Control Sample (LCS) - is an aliquot of reagent water to which known concentrations of the analytes of interest are added. The LFB is analyzed exactly the same as the field samples. LFBs are used to determine whether the method is in control. FBL, FBM, and FBH are the LFB samples at low, mid, and high concentration levels, respectively.

Laboratory Method Blank (LMB) / Laboratory Reagent Blank (LRB) - is a sample of reagent water included in the sample batch analyzed in the same way as the associated field samples. The LMB is used to determine if method analytes or other background contamination have been introduced during the preparation or analytical procedure. The LMB is analyzed exactly the same as the field samples.

Laboratory Trip Blank (LTB) / Field Reagent Blank (FRB) - is a sample of laboratory reagent water placed in a sample container in the laboratory and treated as a field sample, including storage, preservation, and all analytical procedures. The FRB/LTB container follows the collection bottles to and from the collection site, but the FRB/LTB is not opened at any time during the trip. The FRB/LTB is primarily a travel blank used to verify that the samples were not contaminated during shipment.

Matrix Spike Duplicate Sample (MSD) / Laboratory Fortified Sample Matrix Duplicate (LFSMD) - is a sample al6iquot taken from the same field sample source as the Matrix Spike Sample to which known quantities of the analytes of interest are added in the laboratory. The MSD is analyzed exactly the same as the field samples. Analysis of the MSD provides a measure of the precision of the laboratory procedures in a specific matrix. SDL, SDM, and SDH / LFSMDL, LFSMDM, and LFSMDH are the MSD or LFSMD at low, mid, and high concentration levels, respectively.

Matrix Spike Sample (MS) / Laboratory Fortified Sample Matrix (LFSM) - is a sample aliquot taken from field sample source to which known quantities of the analytes of interest are added in the laboratory. The MS is analyzed exactly the same as the field samples. The purpose is to demonstrate recovery of the analytes from a sample matrix to determine if the specific matrix contributes bias to the analytical results. MSL, MSM, and MSH / LFSML, LFSMM, and LFSMH are the MS or LFSM at low, mid, and high concentration levels, respectively.

Quality Control Standard (QCS) / Second Source Calibration Verification (SSCV) - is a solution containing known concentrations of the analytes of interest prepared from a source different from the source of the calibration standards. The solution is obtained from a second manufacturer or lot if the lot can be demonstrated by the manufacturer as prepared independently from other lots. The QCS sample is analyzed using the same procedures as field samples. The QCS is used as a check on the calibration standards used in the method on a routine basis.

Reporting Limit Check (RLC) / Initial Calibration Check Standard (ICCS) - is a procedural standard that is analyzed each day to evaluate instrument performance at or below the minimum reporting limit (MRL).

Surrogate Standard (SS) / Surrogate Analyte (SUR) - is a pure compound with properties similar to the analytes of interest, which is highly unlikely to be found in any field sample, that is added to the field samples, calibration standards, blanks and quality control standards before sample preparation. The SS is used to evaluate the efficiency of the sample preparation process.

: eurofins

Eaton Analytical

110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207

Order # 303373

Batch # 371169

to

Page _

TIME TIME Ohly Prenfield Diank if where NATRIX CODE LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLENT 这点 CHLORINATED YES NO 完 PO# SAMPLE REMARKS 55 PROJECT NAME 4-10 STATE (sample origin) SOURCE WATER CONDITIONS UPON RECEIPT (check one). well ころなです CHAIN OF CUSTODY RECORD TEST NAME LAB COMMENTS POPULATION SERVED 4/2 S PEC. AM PM TIME 1340 S/33/16 -Field BIK for 22771-170SP DATE 2 33609 - 134 SP Field Blc For 22609-1345 Feld BK for 23051-1468 ovece SAMPLING SITE RECEIVED FOR LABORATORY BY: 22771-1775K 33051-14GSP AM FOR SUIT OF ANCENTANCENT TIME RECEIVED BY (\$190 palure) RECEIVED BY:(Signature) SAMPLER (Signature) Dare COMPLIANCE 1340 AM | PW 300 AM NEZ 8 8/23/16 0460 0460 DATE COLLECTION 1015 0401 1015 DATE 10% TIME Shaded area for EEA use only 8/23/16 DNNP 15e LAPOS DATE Convers Labs KM P1390 RELINQUISHED BY (Signature) CAL (DV-4.2.)
RELINQUISHED BY:(Signature) RELINQUISHED BY: (Signature 853 458 458 853 8558 www.EurofinsUS.com/Eaton 158 LAB Number REPORT TO: 13

06-LO-F0435 Issue 5.0 ERective Date: 2016-01-20 Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agree to in writing by EEA. M Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges. C Upon Receipt 30 Ambient tead: WellBlue CALL CALL 125% IW* =Immediate Written: (3 working days) IV* = Immediate Verbal: (3 working days) 246083 STAT* = Less than 48 hours Sp. = Weekend, Holiday 00 TURN.AROUND TIME (TAT) - SURCHARGES SW = Standard Written: (15 working days) 0% W. = Rush Written: (5 working days) RV* = Rush Verbal: (5 working days) AM PM MATRIX CODES: DW-DRINKING WATER RW-REAGENT WATER GW-GROUND WATER EW-EXPOSURE WATER SW-SURFACE WATER PW-POOL WATER WW-WASTE WATER

* peturing un-usa sampa botius, oraleus too many

| | Analytical |
|----------|------------|
| | Eaton |
| eurofins | - |
| | |

Eurofins Eaton Analytical

Run ID: 220941 Method: 537

| Type | Sample Id | Sample Site | Matrix | Instrument ID | Analysis Date | Calibration File |
|------|-----------|-----------------|--------|---------------|------------------|------------------|
| FS | 3530851 | 22771-17DSP | MO | RL | 09/07/2016 08:14 | 537 Ref Lab |
| FTB | 3530852 | 22771-17DSP FTB | RW | RL | 09/07/2016 08:35 | 537 Ref Lab |
| FS | 3530853 | 22609-13ASP | MO | RL | 09/07/2016 08:57 | 537 Ref Lab |
| FTB | 3530854 | 22609-13ASP FTB | RW | RL | 09/07/2016 09:19 | 537 Ref Lab |
| FS | 3530855 | 23051-14GSP | MO | RL | 09/07/2016 09:40 | 537 Ref Lab |
| FTB | 3530856 | 23051-14GSP FTB | RW | RL | 09/07/2016 10:02 | 537 Ref Lab |

| Perflucorottaneautionic acid (PFBS) SSY 2.5 22771-1708P < 2.5 0.770 mg/L | Recovery | Limits | KPD K | RPD L | Dil Extracted Factor | Analyzed | EEA ID# |
|---|----------|--------|-------|-------|-------------------------|-----------------------------------|------------|
| Perfluctoroclassiation and (PPHA) 537 2.5 22771-1705P 5 2.5 7.5 | g/L | 1 | | | 1.0 09/04/2016 00:00 | 00/07/2016 08:14 | 353085 |
| Perfluctorberaneaulforic acid (PFNA) SST 2.5 22771-170SP < 2.5 mg/L | g/L | 1 | 1 | - | 1.0 09/04/2016 00:00 | | 4 3530851 |
| Perfluctorioranous acid (PFNA) SST 2.5 22771-ITOSP < 2.5 mg/L Perfluctorioran sulforate (PFOS) 5377 2.5 22771-ITOSP TRB 2.5 0.7 1.7 <td< td=""><td>g/L</td><td>1</td><td>1</td><td>-</td><td>1.0 09/04/2016 00:00</td><td>.00 09/07/2016 08:14</td><td>4 3530851</td></td<> | g/L | 1 | 1 | - | 1.0 09/04/2016 00:00 | .00 09/07/2016 08:14 | 4 3530851 |
| Perfluctooctaine sulfronte (PFCS) | g/L | 1 | 1 | - | 1.0 09/04/2016 00:00 | 00 09/07/2016 08:14 | 4 3530851 |
| Perfluctocotancia acid (PFOA) 537 2.5 22771-110SP FTB < 2.5 ng/L | g/L | 1 | 1 | - | 1.0 09/04/2016 00:00 | :00 09/07/2016 08:14 | 4 3530851 |
| Perfluorobutanesulfonic acid (PFRs) 537 2.5 22771-17DSP FTB < 2.5 ng/L — | g/L — | 1 | 1 | | 1.0 09/04/2016 00:00 | :00 09/07/2016 08:14 | 4 3530851 |
| Perfluctorbetance acid (PFHA) 537 2.5 22771-170SP FTB < 2.5 ng/L | J/6 | 1 | 1 | 1 | 1.0 09/04/2016 00:00 | :00 09/07/2016 08:35 | 5 3530852 |
| Perfluorobtesantesulfonic acid (PFNA) 537 2.5 22771-170SP FTB < 2.5 mg/L < | g/L — | 1 | ı | | 1.0 09/04/2016 00:00 | :00 09/07/2016 08:35 | 5 3530852 |
| Perfluoronotanoic acid (PFNA) 537 2.5 22771-1TOSP FTB < 2.5 mg/L | g/L – | 1 | | | 1.0 09/04/2016 00:00 | :00 09/07/2016 08:35 | 5 3530852 |
| Perfluoroctarie sulforatie (PFOS) 637 2.5 22771-17DSP FTB < 2.5 mg/L | J/6 | ı | ŀ | | 1.0 09/04/2016 00:00 | :00 09/07/2016 08:35 | 5 3530852 |
| Perfluorobdiance add (PFBS) 537 2.5 22771-11DSP FTB 2.5 ng/L | g/L | 1 | ı | - | 1.0 09/04/2016 00:00 | :00 09/07/2016 08:35 | 5 3530852 |
| Perflucrobutanesulfonic acid (PFBA) 537 2.5 22609-13ASP < 2.5 ng/L | g/L | 1 | 1 | - | 1.0 09/04/2016 00:00 | :00 09/07/2016 08:35 | 5 3530852 |
| Perfluorotheptanoic acid (PFIpA) 537 2.5 22609-13ASP < 2.5 mg/L | J/6 | 1 | 1 | 1 | 1.0 09/04/2016 00:00 | :00 09/07/2016 08:57 | 7 3530853 |
| Perfluorobtamesulfonic acid (PFNA) 537 2.5 22609-13ASP < 2.5 ng/L | J/6i | 1 | 1 | | 1.0 09/04/2016 00:00 | :00 09/07/2016 08:57 | 7 3530853 |
| Perflucronorandic acid (PFNA) 537 2.5 22609-13ASP < 2.5 ng/L < | J/6 | 1 | 1 | - | 1.0 09/04/2016 00:00 | :00 09/07/2016 08:57 | 7 3530853 |
| Perfluoroctane sulfonate (PFOS) 537 2.5 22609-13ASP FTB < 2.5 0 g/L — | J/6i | 1 | 1 | - | 1.0 09/04/2016 00:00 | .00 09/07/2016 08:57 | 7 3530853 |
| Perfluoroctanoic acid (PFOA) S37 2.5 22609-13ASP FTB 2.5 0 ng/L — | - J/6i | 1 | 1 | - | 1.0 09/04/2016 00:00 | :00 09/07/2016 08:57 | 7 3530853 |
| Perfluorobutanesulfonic acid (PFBS) 537 2.5 22609-13ASP FTB < 2.5 ng/L — | J/6i | 1 | 1 | | 1.0 09/04/2016 00:00 | :00 09/07/2016 08:57 | 7 3530853 |
| Perfluoroheptanoic acid (PFHpA) 537 2.5 22609-13ASP FTB < 2.5 ng/L — — — — Perfluorohexanesulfonic acid (PFHxS) 537 2.5 22609-13ASP FTB < | - J/6i | 1 | ı | 1 | 1,0 09/04/2016 00:00 | :00 09/07/2016 09:19 | 9 3530854 |
| Perfluorobexanesulfonic acid (PFNx) 537 2.5 22609-13ASP FTB < 2.5 mg/L — — — — Perfluorononanolic acid (PFNx) 537 2.5 22609-13ASP FTB < | ig/L | 1 | 1 | - | 1.0 09/04/2016 00:00 | :00 09/07/2016 09:19 | 9 3530854 |
| Perfluctoronanotic acid (PFNA) | J/Bi | 1 | 1 | 1 | 1.0 09/04/2016 00 | 09/04/2016 00:00 09/07/2016 09:19 | 9 3530854 |
| Perfluorooctane sulfonate (PFOS) 537 2.5 22609-13ASP FTB < 2.5 ng/L | ig/L — | 1 | i | 1 | 1.0 09/04/2016 00:00 | :00 09/07/2016 09:19 | 9 3530854 |
| Perfluoroctanoic acid (PFGA) 537 2.5 22609-13ASP FTB < 2.5 mg/L — < | ng/L | 1 | 1 | | 1.0 09/04/2016 00:00 | :00 09/07/2016 09:19 | 9 3530854 |
| Perflucrobutanesulfonic acid (PFBS) 537 2.5 23051-14GSP < 2.5 mg/L — — — — Perflucrobutanesulfonic acid (PFHpA) 537 2.5 23051-14GSP < | ig/L — | | 1 | | 1.0 09/04/2016 00 | 09/04/2016 00:00 09/07/2016 09:19 | 9 3530854 |
| Perfluoroheptanotic acid (PFHpA) 537 2.5 23051-14GSP < 2.5 mg/L | ig/L — | ı | Ī | 1 | 1.0 09/04/2016 00:00 | :00 09/07/2016 09:40 | 0 3530855 |
| Perfluorobexanesulfonic acid (PFNxS) 537 2.5 23051-14GSP < 2.5 mg/L — — — — Perfluorobrananci acid (PFNx) 537 2.5 23051-14GSP < | ng/L | 1 | I | 1 | 1.0 09/04/2016 00:00 | :00 09/07/2016 09:40 | 0 3530855 |
| Perfluoronanoic acid (PFNA) 537 2.5 23051-14GSP < 2.5 mg/L -< | J/bi | 1 | ı | | 1.0 09/04/2016 00:00 | :00 09/07/2016 09:40 | 0 3530855 |
| Perfluorococtane sulformate (PFOS) 537 2.5 23051-14GSP < 2.5 mg/L <t< td=""><td>- J/6i</td><td>1.</td><td>l</td><td></td><td>1.0 09/04/2016 00:00</td><td>:00 09/07/2016 09:40</td><td>0 3530855</td></t<> | - J/6i | 1. | l | | 1.0 09/04/2016 00:00 | :00 09/07/2016 09:40 | 0 3530855 |
| Perfluoroctanoic acid (PFBS) 537 2.5 23051-14GSP TB 2.5 ng/L — — — — Perfluorobutanesulfonic acid (PFBS) 537 2.5 23051-14GSP FTB 2.5 ng/L — — — — | ng/L — | 1 | 1 | 1 | 1.0 09/04/2016 00:00 | :00 09/07/2016 09:40 | 0 3530855 |
| Perfluorobutanesulfonic acid (PFBS) 537 2.5 23051-14GSP FTB < 2.5 ng/L — — — — | Ig/L | 1 | 1 | | 1.0 09/04/2016 00:00 | :00 09/07/2016 09:40 | 0 3530855 |
| | ng/L — | 1 | Ī | 1 | 1,0 09/04/2016 00:00 | :00 09/07/2016 10:02 | 2 3530856 |
| 1 | ng/L — | ı | Ī | 1 | 1.0 09/04/2016 00:00 | :00 09/07/2016 10:02 | 2 3530856 |
| FTB Perfluorohexanesulfonic acid (PFHxS) 537 2.5 23051-14GSP FTB < 2.5 ng/L — — — — — | ng/L — | 1 | 1 | 1 | 1.0 09/04/2016 00:00 | | 2 3530856 |
| FTB Perfluorononanoic adid (PFNA) 537 2,5 23051-14GSP FTB < 2.5 ng/L — — — — — | ng/L | 1 | ı | | 1.0 09/04/2016 00:00 | :00 09/07/2016 10:02 | 2 3530856 |
|) 537 2.5 | ig/L — | 1 | 1 | 1 | 1.0 09/04/2016 00:00 | :00 09/07/2016 10:02 | 2 3530856 |
| FTB Perfluorooctanolc acid (PFOA) 537 2.5 23051-14GSP FTB < 2.5 ng/L | ig/L — | 1 | | 1 | 1.0 09/04/2016 00:00 | :00 09/07/2016 10:02 | 2 3530856 |

| Sample Type Key | Sample Type Field Sample Sample Field Sample | Field Trip Blank |
|-----------------|--|------------------|
| | Sample T Field Samp | Field Trip E |
| | Type (Abbr.) FS | FTB |

END OF REPORT



LABORATORY REPORT

If you have any questions concerning this report, please do not hesitate to call us at (800) 332-4345 or (574) 233-4777.

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STATE CERTIFICATION LIST

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| Arizona | AZ0432 | Nevada | IN00035 |
| Arkansas | IN00035 | New Hampshire* | 2124 |
| California | 2920 | New Mexico | IN00035 |
| Colorado | IN035 | New Jersey* | IN598 |
| Colorado Radiochemistry | IN035 | New York* | 11398 |
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| Kentucky | 90056 | Texas/TCEQ | TX207 |
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| Maryland | 209 | Virginia* | 460275 |
| Massachusetts | M-IN035 | Washington | C837 |
| Michigan | 9926 | West Virginia | 9927 C |
| Minnesota* | 018-999-338 | Wisconsin | 999766900 |
| Mississippi | IN035 | Wyoming | IN035 |
| Missouri | 880 | | |

*NELAP/TNI Recognized Accreditation Bodies

Revision date: 04/14/2016

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Eaton Analytical

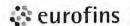
110 S. Hill Street South Bend, IN 46617 T: 1.800.332.4345 F: 1.574.233.8207

Order # 303373 Batch #

ТИВИАВО НИЕ 30 MATRIX CODE ONIN PICK FLEID DIONK IF THEN LAB RESERVES THE RIGHT TO RETURN UNUSED PORTIONS OF NON-AQUEOUS SAMPLES TO CLIENT N/A ō OF CONTAINERS Samples received unannounced with less than 48 hours holding time remaining may be subject to additional charges. CHLORINATED 9 Page #Od YES C Upon Receipt SAMPLE REMARKS STATE (sample origin) | PROJECT NAME Iced: Wet/Blue Ambient SOURCE WATER CONDITIONS UPON RECEIPT (check one); well らなわけ CHAIN OF CUSTODY RECORD *TEST NAME* CALL CALL 125% LAB COMMENTS POPULATION SERVED 4/4 IW* =Immediate Written: (3 working days) IV* = Immediate Verbal: (3 working days) 1340 AM PM STAT* = Less than 48 hours TIME श्रीक्रशाक Field BIK for 22771-170SP DATE DATE å Field Blk for 23051-1468 Field Blc for 22609-13ASP overe SAMPLING SITE Please call, expedited service not available for all testing RECEIVED FOR LABORATORY BY: 32609 - 13ASP 42171 - 1715SP 23051-149SP 1370 SULT POLITICAL
TIME RECEIVED BY (Signature) RECEIVED BY:(Signature) TURN-AROUND TIME (TAT) - SURCHARGES SAMPLER (Signature) Bane COMPLIANCE %0 %05 SW = Standard Written: (15 working days) RW* = Rush Written: (5 working days) Rush Verbal: (5 working days) 1340 AM PM AM PM TIME AM PM TIME 0460 8/23/11 260 COLLECTION 040 1015 0401 1015 DATE Shaded area for EEA use only 8/23/16 DNVPrse LAPOS DATE RELINQUISHED BY:(Signature) RELINQUISHED BY: (Signature) RELINQUISHED BY:(Signature) MATRIX CODES: DW-DRINKING WATER
W-REAGENT WATER
GW-GROUND WATER
EW-EXPOSURE WATER
PW-POOL WATER
WW-WASTE WATER www.EurofinsUS.com/Eaton LAB Number 6 10 12

Sample analysis will be provided according to the standard EEA/Water Services Terms, which are available upon request. Any other terms proposed by Customer are deemed material alterations and are rejected unless expressly agree to in writing by EEA.





Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: SB-1-SUMP Grab Soil

Fort Drum

LL Sample # SW 8680107 LL Group # 1729266

Account # 38055

Project Name: Fort Drum

Collected: 11/01/2016 14:05 by N

Converse Laboratories, Inc.

800 Starbuck Ave

Suite B101

Watertown NY 13601

Submitted: 11/04/2016 08:00 Reported: 12/08/2016 10:36

| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|------------|--|--|-------------------------------------|-----------------------------------|---------------------------------|--------------------|
| Misc. | Organics EPA | A 537 Rev. 1.1 | ng/g | ng/g | ng/g | |
| | mod | dified | | | | |
| 14027 | NELFOSAA | 2991-50-6 | N.D. | 1.2 | 3.7 | 1 |
| | NEtFOSAA is the acronym | for N-ethyl perfluoro | octanesulfonamid | loacetic Acid. | | |
| 14027 | NMeFOSAA | 2355-31-9 | N.D. | 1.2 | 3.7 | 1 |
| 46.467 | NMeFOSAA is the acronym | for N-methyl perfluor | octanesulfonami | doacetic Acid. | | |
| 14027 | Perfluorobutanesulfonat | | N.D. | 0.62 | 2.0 | 1 |
| 14027 | Perfluorodecanoic acid | 335-76-2 | 0.30 J | 0.25 | 0.50 | 1 |
| 14027 | Perfluorododecanoic aci | d 307-55-1 | N.D. | 0.50 | 0.99 | 1 |
| 14027 | Perfluoroheptanoic acid | 375-85-9 | N.D. | 0.37 | 0.75 | 1 |
| 14027 | Perfluorohexanesulfonat | e 355-46-4 | N.D. | 0.62 | 2.0 | 1 |
| 14027 | Perfluorohexanoic acid | 307-24-4 | N.D. | 0.25 | 0.50 | 1 |
| 14027 | Perfluorononanoic acid | 375-95-1 | N.D. | 0.25 | 0.50 | 1 |
| 14027 | Perfluoro-octanesulfona | te 1763-23-1 | N.D. | 0.87 | 2.0 | 1 |
| 14027 | Perfluorooctanoic acid | 335-67-1 | N.D. | 0.37 | 0.75 | 1 |
| 14027 | Perfluorotetradecanoic | acid 376-06-7 | N.D. | 0.37 | 0.99 | 1 |
| 14027 | Perfluorotridecanoic ac | id 72629-94-8 | N.D. | 0.75 | 1.5 | 1 |
| 14027 | Perfluoroundecanoic aci | d 2058-94-8 | N.D. | 0.37 | 0.75 | 1 |
| Wet C | hemistry SM | 2540 G-1997 | % | % | % | |
| 00111 | Moisture | n.a. | 26.7 | 0.50 | 0.50 | 1 |
| | Moisture represents the 103 - 105 degrees Celsi as-received basis. | loss in weight of the us. The moisture resul | sample after ov t reported is or | ven drying at n an | | |

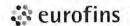
Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| | | Labora | tory Sa | ample Analys: | is Record | | | |
|------------|-----------------|---------------------------|---------|---------------|-------------------------|-------|------------------|--------------------|
| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Ti | .me | Analyst | Dilution Factor |
| 14027 | 14 PFCs in Soil | EPA 537 Rev. 1.1 modified | 1 | 16315006 | 11/15/2016 | 22:54 | Atulbhai Patel | 1 |
| 14090 | PFC Solid Prep | EPA 537 Rev. 1.1 modified | 1 | 16315006 | 11/10/2016 | 16:30 | Devon M Whooley | 1 |
| 00111 | Moisture | SM 2540 G-1997 | 1 | 16326820007A | 11/22/2016 | 01:04 | Scott W Freisher | 1 |

^{*=}This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: SB-1-DRAIN Grab Soil

Fort Drum

LL Sample # SW 8680108 LL Group # 1729266

Account # 38055

Project Name: Fort Drum

Collected: 11/01/2016 16:15

Converse Laboratories, Inc.

800 Starbuck Ave

Suite B101

Submitted: 11/04/2016 08:00 Reported: 12/08/2016 10:36

Watertown NY 13601

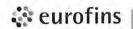
| CAT No. | Analysis Name | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|------------|--|-----------------|------------------|-----------------------------------|---------------------------------|--------------------|
| Misc. | Organics EPA 537 | Rev. 1.1 | ng/g | ng/g | ng/g | |
| | modified | | | | | |
| 14027 | NETFOSAA | 2991-50-6 | N.D. | 1.1 | 3.4 | 1 |
| 1102, | NETFOSAA is the acronym for N- | ethyl perfluoro | octanesulfonamid | oacetic Acid. | | |
| 14027 | NMeFOSAA | 2355-31-9 | N.D. | 1.1 | 3.4 | 1 |
| 4.000 | NMeFOSAA is the acronym for N- | methyl perfluor | ooctanesulfonami | doacetic Acid. | | |
| 14027 | Perfluorobutanesulfonate | 375-73-5 | N.D. | 0.56 | 1.8 | 1 |
| 14027 | Perfluorodecanoic acid | 335-76-2 | N.D. | 0.22 | 0.45 | 1 |
| 14027 | Perfluorododecanoic acid | 307-55-1 | N.D. | 0.45 | 0.90 | 1 |
| 14027 | Perfluoroheptanoic acid | 375-85-9 | N.D. | 0.34 | 0.67 | 1 |
| 14027 | Perfluorohexanesulfonate | 355-46-4 | N.D. | 0.56 | 1.8 | 1 |
| 14027 | Perfluorohexanoic acid | 307-24-4 | N.D. | 0.22 | 0.45 | 1 |
| 14027 | Perfluorononanoic acid | 375-95-1 | N.D. | 0.22 | 0.45 | 1 |
| 14027 | Perfluoro-octanesulfonate | 1763-23-1 | N.D. | 0.79 | 1.8 | 1 |
| 14027 | Perfluorooctanoic acid | 335-67-1 | N.D. | 0.34 | 0.67 | 1 |
| 14027 | Perfluorotetradecanoic acid | 376-06-7 | N.D. | 0.34 | 0.90 | 1 |
| 14027 | Perfluorotridecanoic acid | 72629-94-8 | N.D. | 0.67 | 1.3 | 1 |
| 14027 | Perfluoroundecanoic acid | 2058-94-8 | N.D. | 0.34 | 0.67 | 1 |
| Wet C | hemistry SM 2540 | G-1997 | % | % | % | |
| 00111 | Moisture | n.a. | 15.3 | 0.50 | 0.50 | 1 |
| 50111 | Moisture represents the loss i 103 - 105 degrees Celsius. The as-received basis. | n weight of the | sample after ov | en drying at an | | |

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

| | | Labora | tory Sa | ample Analys | is Record | | | |
|------------|-----------------|---------------------------|---------|--------------|-------------------------|-------|------------------|--------------------|
| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Ti | me | Analyst | Dilution Factor |
| | 14 PFCs in Soil | EPA 537 Rev. 1.1 modified | 1 | 16315006 | 11/15/2016 | 23:10 | Atulbhai Patel | 1 |
| 14090 | PFC Solid Prep | EPA 537 Rev. 1.1 modified | 1 | 16315006 | 11/10/2016 | 16:30 | Devon M Whooley | 1 |
| 00111 | Moisture | SM 2540 G-1997 | 1 | 16326820007A | 11/22/2016 | 01:04 | Scott W Freisher | 1 |



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: SB-2-SUMP Grab Soil

Fort Drum

LL Sample # SW 8680109

LL Group # 1729266 Account # 38055

Scott W Freisher

Project Name: Fort Drum

Collected: 11/02/2016 09:55 by N

Converse Laboratories, Inc.

800 Starbuck Ave

Suite B101

Watertown NY 13601

Submitted: 11/04/2016 08:00 Reported: 12/08/2016 10:36

Dry Dry Method Limit of Drv Dilution CAT Detection Limit* Quantitation CAS Number Analysis Name Result Factor No. ng/g ng/g EPA 537 Rev. 1.1 Misc. Organics modified N.D. 1.2 3.6 1 NET FOSAA 2991-50-6 14027 NEtFOSAA is the acronym for N-ethyl perfluorooctanesulfonamidoacetic Acid. 2355-31-9 N.D. 3.6 1 14027 **NMeFOSAA** NMeFOSAA is the acronym for N-methyl perfluorooctanesulfonamidoacetic Acid. 1.9 0.59 N.D. 14027 Perfluorobutanesulfonate 375-73-5 0.24 0.48 14027 Perfluorodecanoic acid 335-76-2 N.D. 0.95 0.48 Perfluorododecanoic acid 307-55-1 N.D. 14027 375-85-9 0.36 0.71 14027 Perfluoroheptanoic acid N.D. 1 Perfluorohexanesulfonate 355-46-4 N.D. 0.59 1.9 14027 0.48 1 307-24-4 N.D. 0.24 Perfluorohexanoic acid 14027 N.D. 0.24 0.48 1 Perfluorononanoic acid 375-95-1 14027 N.D. 0.83 1.9 1 Perfluoro-octanesulfonate 1763-23-1 14027 0.36 0.71 1 Perfluorooctanoic acid 335-67-1 N.D. 14027 376-06-7 N.D. 0.36 0.95 1 Perfluorotetradecanoic acid 14027 72629-94-8 N.D. 0.71 1.4 1 Perfluorotridecanoic acid 14027 0.36 0.71 Perfluoroundecanoic acid 2058-94-8 N.D. 14027 SM 2540 G-1997 કૃ Wet Chemistry 0.50 0.50 1 00111 Moisture 16.7 Moisture represents the loss in weight of the sample after oven drying at 103 - 105 degrees Celsius. The moisture result reported is on an as-received basis.

Sample Comments

State of New York Certification No. 10670

Analysis Name

14027 14 PFCs in Soil

14090 PFC Solid Prep

00111 Moisture

CAT

No.

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

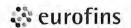
SM 2540 G-1997

1

Laboratory Sample Analysis Record Method Dilution Trial# Batch# Analysis Analyst Date and Time Factor 11/16/2016 00:16 16315006 Atulbhai Patel EPA 537 Rev. 1.1 1 modified 11/10/2016 16:30 Devon M Whooley 16315006 EPA 537 Rev. 1.1 1 modified

11/22/2016 01:04

16326820007A



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: SB-2-DRAIN Grab Soil

Fort Drum

LL Sample # SW 8680110

LL Group # 1729266 Account # 38055

Project Name: Fort Drum

Collected: 11/02/2016 10:30 by N

Converse Laboratories, Inc.

800 Starbuck Ave

Suite B101

Watertown NY 13601

Submitted: 11/04/2016 08:00

Reported: 12/08/2016 10:36

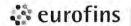
| CAT No. | Analysis Name | | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|------------|---|--------------|------------------|------------------|-----------------------------------|---------------------------------|--------------------|
| Misc. | Organics | EPA 537 | Rev. 1.1 | ng/g | ng/g | ng/g | |
| | | modified | | | | | |
| 14027 | NETFOSAA | | 2991-50-6 | N.D. | 1.1 | 3.4 | 1 |
| 20020 | NEtFOSAA is the ac | ronym for N- | ethyl perfluoro | octanesulfonamid | oacetic Acid. | | |
| 14027 | NMeFOSAA | Saran Alexan | 2355-31-9 | N.D. | 1.1 | 3.4 | 1 |
| | NMeFOSAA is the ac | ronym for N- | methyl perfluore | poctanesulfonami | doacetic Acid. | | |
| 14027 | Perfluorobutanesul | | 375-73-5 | N.D. | 0.57 | 1.8 | 1 |
| 14027 | Perfluorodecanoic | acid | 335-76-2 | N.D. | 0.23 | 0.46 | 1 |
| 14027 | Perfluorododecanoi | c acid | 307-55-1 | N.D. | 0.46 | 0.91 | 1 |
| 14027 | Perfluoroheptanoic | acid | 375-85-9 | N.D. | 0.34 | 0.68 | 1 |
| 14027 | Perfluorohexanesul | fonate | 355-46-4 | N.D. | 0.57 | 1.8 | 1 |
| 14027 | Perfluorohexanoic | acid | 307-24-4 | N.D. | 0.23 | 0.46 | 1 |
| 14027 | Perfluorononanoic | acid | 375-95-1 | N.D. | 0.23 | 0.46 | 1 |
| 14027 | Perfluoro-octanesu | lfonate | 1763-23-1 | N.D. | 0.80 | 1.8 | 1 |
| 14027 | Perfluorooctanoic | acid | 335-67-1 | N.D. | 0.34 | 0.68 | 1 |
| 14027 | Perfluorotetradeca | noic acid | 376-06-7 | N.D. | 0.34 | 0.91 | 1 |
| 14027 | Perfluorotridecand | ic acid | 72629-94-8 | N.D. | 0.68 | 1.4 | 1 |
| 14027 | Perfluoroundecanoi | c acid | 2058-94-8 | N.D. | 0.34 | 0.68 | 1 |
| Wet C | hemistry | SM 2540 | G-1997 | % | % | % | |
| 00111 | Moisture | | n.a. | 15.4 | 0.50 | 0.50 | 1 |
| 11500 | Moisture represent 103 - 105 degrees as-received basis. | Celsius. The | | | | | |

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record Method Analyst Dilution Trial# Batch# Analysis CAT Analysis Name Date and Time Factor EPA 537 Rev. 1.1 16315006 11/16/2016 00:32 Atulbhai Patel 14027 14 PFCs in Soil 1 modified 11/10/2016 16:30 1 16315006 Devon M Whooley 14090 PFC Solid Prep EPA 537 Rev. 1.1 1 modified Scott W Freisher 00111 Moisture SM 2540 G-1997 1 16326820007A 11/22/2016 01:04



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: SB-3-SUMPA Grab Soil

Fort Drum

LL Sample # SW 8680111 LL Group # 1729266

Account # 38055

Project Name: Fort Drum

Collected: 11/02/2016 15:45 by N Converse Laboratories, Inc.

800 Starbuck Ave

Suite B101

Submitted: 11/04/2016 08:00 Reported: 12/08/2016 10:36

Watertown NY 13601

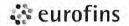
| CAT No. | Analysis Name | | CAS Number | Dry Resul | | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|------------|--|--------------|------------------|--------------|-----------|-----------------------------------|---------------------------------|--------------------|
| Misc, | Organics | EPA 537 | Rev. 1.1 | ng/g | | ng/g | ng/g | |
| | | modified | | | | | | |
| 14027 | NEtFOSAA | | 2991-50-6 | N.D. | | 1.1 | 3.3 | 1 |
| | NEtFOSAA is the acr | conym for N- | ethyl perfluoro | octanesu | lfonamido | acetic Acid. | | |
| 14027 | NMeFOSAA | | 2355-31-9 | N.D. | | 1.1 | 3.3 | 1 |
| | NMeFOSAA is the acr | conym for N- | methyl perfluoro | octanes | ulfonamid | pacetic Acid. | | |
| 14027 | Perfluorobutanesulf | | 375-73-5 | N.D. | | 0.54 | 1.7 | 1 |
| 14027 | Perfluorodecanoic a | acid | 335-76-2 | N.D. | | 0.22 | 0.43 | 1 |
| 14027 | Perfluorododecanoio | cacid | 307-55-1 | N.D. | | 0.43 | 0.87 | 1 |
| 14027 | Perfluoroheptanoic | acid | 375-85-9 | N.D. | | 0.33 | 0.65 | 1 |
| 14027 | Perfluorohexanesulf | onate | 355-46-4 | N.D. | | 0.54 | 1.7 | 1 |
| 14027 | Perfluorohexanoic a | acid | 307-24-4 | N.D. | | 0.22 | 0.43 | 1 |
| 14027 | Perfluorononanoic a | acid | 375-95-1 | N.D. | | 0.22 | 0.43 | 1 |
| 14027 | Perfluoro-octanesul | lfonate | 1763-23-1 | 1.6 | J | 0.76 | 1.7 | 1 |
| 14027 | Perfluorooctanoic a | acid | 335-67-1 | N.D. | | 0.33 | 0.65 | 1 |
| 14027 | Perfluorotetradecar | noic acid | 376-06-7 | N.D. | | 0.33 | 0.87 | 1 |
| 14027 | Perfluorotridecanoi | ic acid | 72629-94-8 | N.D. | | 0,65 | 1.3 | 1 |
| 14027 | Perfluoroundecanoio | c acid | 2058-94-8 | N.D. | | 0.33 | 0.65 | 1 |
| Net C | hemistry | SM 2540 | G-1997 | % | | % | % | |
| 00111 | Moisture | | n.a. | 14.4 | | 0.50 | 0.50 | 1 |
| | Moisture represents 103 - 105 degrees (as-received basis. | | | | | | | |

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record Method Trial# Batch# Dilution CAT Analysis Name Analysis Analyst Date and Time Factor No. 14027 14 PFCs in Soil EPA 537 Rev. 1.1 16315006 11/16/2016 00:49 Atulbhai Patel modified 14090 PFC Solid Prep EPA 537 Rev. 1.1 16315006 11/10/2016 16:30 Devon M Whooley modified SM 2540 G-1997 16326820007A Scott W Freisher 11/22/2016 01:04 00111 Moisture



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: SB-3-SUMPB Grab Soil

Fort Drum

LL Sample # SW 8680112 LL Group # 1729266

Account # 38055

Project Name: Fort Drum

Collected: 11/02/2016 16:00

Converse Laboratories, Inc.

800 Starbuck Ave

Suite B101

Submitted: 11/04/2016 08:00 Reported: 12/08/2016 10:36

Watertown NY 13601

| CAT No. | Analysis Name | | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|------------|---|--------------|----------------|------------------|-----------------------------------|---------------------------------|--------------------|
| Misc. | Organics | EPA 537 R | lev. 1.1 | ng/g | ng/g | ng/g | |
| | | modified | | | | | |
| 14027 | NETFOSAA | | 2991-50-6 | N.D. | 1.1 | 3.3 | 1 |
| | NETFOSAA is the acro | onym for N-e | thyl perfluoro | octanesulfonamid | oacetic Acid. | | |
| 14027 | NMeFOSAA | | 2355-31-9 | N.D. | 1.1 | 3.3 | 1 |
| | NMeFOSAA is the acro | nym for N-m | ethyl perfluor | octanesulfonami | doacetic Acid. | | |
| 14027 | Perfluorobutanesulfo | nate | 375-73-5 | N.D. | 0.55 | 1.7 | 1 |
| 14027 | Perfluorodecanoic ac | id | 335-76-2 | N.D. | 0.22 | 0.44 | 1 |
| 14027 | Perfluorododecanoic | acid | 307-55-1 | N.D. | 0.44 | 0.87 | 1 |
| 14027 | Perfluoroheptanoic a | cid | 375-85-9 | N.D. | 0.33 | 0.65 | - 1 - |
| 14027 | Perfluorohexanesulfo | nate | 355-46-4 | N.D. | 0.55 | 1.7 | 1 |
| 14027 | Perfluorohexanoic ac | id | 307-24-4 | N.D. | 0.22 | 0.44 | 1 |
| 14027 | Perfluorononanoic ac | id | 375-95-1 | N.D. | 0.22 | 0.44 | 1 |
| 14027 | Perfluoro-octanesulf | onate | 1763-23-1 | N.D. | 0.76 | 1.7 | 1 |
| 14027 | Perfluorooctanoic ac | id | 335-67-1 | N.D. | 0.33 | 0.65 | 1 |
| 14027 | Perfluorotetradecano | ic acid | 376-06-7 | N.D. | 0.33 | 0.87 | 1 |
| 14027 | Perfluorotridecanoic | acid | 72629-94-8 | N.D. | 0.65 | 1.3 | 1 |
| 14027 | Perfluoroundecanoic | acid | 2058-94-8 | N.D. | 0.33 | 0.65 | 1 |
| Wet C | nemistry | SM 2540 G | -1997 | % | % | % | |
| 00111 | Moisture | | n.a. | 15.0 | 0.50 | 0.50 | 1 |
| V. (3.77%) | Moisture represents 103 - 105 degrees Ce as-received basis. | | | | | | |

Sample Comments

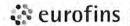
State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|------------|-----------------|---------------------------|--------|--------------|------------------------|------------------|--------------------|
| 14027 | 14 PFCs in Soil | EPA 537 Rev. 1.1 modified | 1 | 16315006 | 11/16/2016 01:05 | Atulbhai Patel | 1 |
| 14090 | PFC Solid Prep | EPA 537 Rev. 1.1 modified | 1 | 16315006 | 11/10/2016 16:30 | Devon M Whooley | 1 |
| 00111 | Moisture | SM 2540 G-1997 | 1 | 16326820007A | 11/22/2016 01:04 | Scott W Freisher | 1 |

^{*=}This limit was used in the evaluation of the final result



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: SB-3-DRAIN Grab Soil

Fort Drum

LL Sample # SW 8680113

LL Group # 1729266

Account # 38055

Project Name: Fort Drum

Collected: 11/02/2016 16:30 by N

Converse Laboratories, Inc.

800 Starbuck Ave

Suite B101

Watertown NY 13601

Submitted: 11/04/2016 08:00 Reported: 12/08/2016 10:36

| CAT No. | Analysis Name | | CAS Number | Dry Result | Dry Method Detection Limit* | Dry Limit of Quantitation | Dilution Factor |
|------------|---|----------------|-----------------|------------------|-----------------------------------|---------------------------------|--------------------|
| Misc. | Organics | EPA 537 | Rev. 1.1 | ng/g | ng/g | ng/g | |
| | | modified | | | | | |
| 14027 | NETFOSAA | | 2991-50-6 | N.D. | 0.99 | 3.0 | 1 |
| | NEtFOSAA is the a | cronym for N- | ethyl perfluoro | octanesulfonamid | oacetic Acid. | | |
| 14027 | NMeFOSAA | | 2355-31-9 | N.D. | 0.99 | 3.0 | 1 |
| | NMeFOSAA is the a | acronym for N- | methyl perfluor | ooctanesulfonami | doacetic Acid. | | |
| 14027 | Perfluorobutanesu | | 375-73-5 | N.D. | 0.50 | 1.6 | 1 |
| 14027 | Perfluorodecanoic | acid | 335-76-2 | N.D. | 0.20 | 0.40 | 1 |
| 14027 | Perfluorododecano | oic acid | 307-55-1 | N.D. | 0.40 | 0.80 | 1 |
| 14027 | Perfluoroheptanoi | ic acid | 375-85-9 | N.D. | 0.30 | 0.60 | 1 |
| 14027 | Perfluorohexanesu | ılfonate | 355-46-4 | N.D. | 0.50 | 1.6 | 1 |
| 14027 | Perfluorohexanoio | cacid | 307-24-4 | N.D. | 0.20 | 0.40 | 1 |
| 14027 | Perfluorononanoio | c acid | 375-95-1 | N.D. | 0.20 | 0.40 | 1 |
| 14027 | Perfluoro-octanes | sulfonate | 1763-23-1 | N.D. | 0.70 | 1.6 | 1 |
| 14027 | Perfluorooctanoio | cacid | 335-67-1 | N.D. | 0.30 | 0.60 | 1 |
| 14027 | Perfluorotetradeo | canoic acid | 376-06-7 | N.D. | 0.30 | 0.80 | 1 |
| 14027 | Perfluorotridecar | noic acid | 72629-94-8 | N.D. | 0.60 | 1.2 | 1 |
| 14027 | Perfluoroundecand | oic acid | 2058-94-8 | N.D. | 0.30 | 0.60 | 1 |
| Wet C | hemistry | SM 2540 | G-1997 | % | % | % | |
| 00111 | Moisture | | n.a. | 6.4 | 0.50 | 0.50 | 1 |
| 24 520 | Moisture represer 103 - 105 degrees as-received basis | celsius. The | | | | | |

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

| CAT No. | Analysis Name | Method | Trial# | Batch# | Analysis Date and Time | Analyst | Dilution Factor |
|------------|-----------------|---------------------------|--------|--------------|---------------------------|------------------|--------------------|
| 14027 | 14 PFCs in Soil | EPA 537 Rev. 1.1 modified | 1 | 16315006 | 11/15/2016 19:54 | Atulbhai Patel | 1 |
| 14090 | PFC Solid Prep | EPA 537 Rev. 1.1 modified | 1 | 16315006 | 11/10/2016 16:30 | Devon M Whooley | 1 |
| 00111 | Moisture | SM 2540 G-1997 | 1 | 16326820007A | 11/22/2016 01:04 | Scott W Freisher | 1 |

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

ANALYTICAL RESULTS

Prepared by:

Prepared for:

Eurofins Lancaster Laboratories Environmental 2425 New Holland Pike Lancaster, PA 17601 Converse Laboratories, Inc. 800 Starbuck Ave Suite B101 Watertown NY 13601

Report Date: December 08, 2016

Project: Fort Drum

Submittal Date: 11/04/2016 Group Number: 1729266 PO Number: EA16-1688 State of Sample Origin: NY

| | Lancaster Labs |
|---------------------------|----------------|
| Client Sample Description | (LL) # |
| SB-1-SUMP Grab Soil | 8680107 |
| SB-1-DRAIN Grab Soil | 8680108 |
| SB-2-SUMP Grab Soil | 8680109 |
| SB-2-DRAIN Grab Soil | 8680110 |
| SB-3-SUMPA Grab Soil | 8680111 |
| SB-3-SUMPB Grab Soil | 8680112 |
| SB-3-DRAIN Grab Soil | 8680113 |
| | |

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our current scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/. To request copies of prior scopes of accreditation, contact your project manager.

| Electronic Copy To | Converse Laboratories, Inc. | Attn: Customer Service |
|--------------------|-----------------------------|------------------------|
| Electronic Copy To | Converse Laboratories, Inc. | Attn: Donna K Zang |

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Respectfully Submitted,

Angela M. Miller

Specialist

(717) 556-7260

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Quality Control Summary

Client Name: Converse Laboratories, Inc.

Reported: 12/08/2016 10:36

Group Number: 1729266

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

| Analysis Name | Result | MDL** | LOQ |
|-----------------------------|------------|-------------|--------------|
| | ng/g | ng/g | ng/g |
| Batch number: 16315006 | Sample num | ber(s): 868 | 0107-8680113 |
| NETFOSAA | N.D. | 1.0 | 3.0 |
| NMeFOSAA | N.D. | 1.0 | 3.0 |
| Perfluorobutanesulfonate | N.D. | 0.50 | 1.6 |
| Perfluorodecanoic acid | N.D. | 0.20 | 0.40 |
| Perfluorododecanoic acid | N.D. | 0.40 | 0.80 |
| Perfluoroheptanoic acid | N.D. | 0.30 | 0.60 |
| Perfluorohexanesulfonate | N.D. | 0.50 | 1.6 |
| Perfluorohexanoic acid | N.D. | 0.20 | 0.40 |
| Perfluorononanoic acid | N.D. | 0.20 | 0.40 |
| Perfluoro-octanesulfonate | N.D. | 0.70 | 1.6 |
| Perfluorooctanoic acid | N.D. | 0.30 | 0.60 |
| Perfluorotetradecanoic acid | N.D. | 0.30 | 0.80 |
| Perfluorotridecanoic acid | N.D. | 0.60 | 1.2 |
| Perfluoroundecanoic acid | N.D. | 0.30 | 0.60 |

LCS/LCSD

| Analysis Name | LCS Spike Added ng/g | LCS Conc ng/g | LCSD Spike Added ng/g | LCSD Conc ng/g | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|-----------------------------|----------------------------|---------------------|-----------------------------|----------------------|-------------|--------------|--------------------|-----|------------|
| Batch number: 16315006 | Sample numbe | r(s): 8680 | 107-8680113 | | | | | | |
| NETFOSAA | 20 | 21.21 | 20 | 20.6 | 106 | 103 | 70-130 | 3 | 30 |
| NMeFOSAA | 20 | 25.52 | 20 | 23.5 | 128 | 118 | 70-130 | 8 | 30 |
| Perfluorobutanesulfonate | 17.7 | 17.23 | 17.7 | 15.7 | 97 | 89 | 70-130 | 9 | 30 |
| Perfluorodecanoic acid | 20 | 19.67 | 20 | 19.43 | 98 | 97 | 70-130 | 1 | 30 |
| Perfluorododecanoic acid | 20 | 15.97 | 20 | 16.13 | 80 | 81 | 70-130 | 1 | 30 |
| Perfluoroheptanoic acid | 20 | 21.09 | 20 | 21.7 | 105 | 109 | 70-130 | 3 | 30 |
| Perfluorohexanesulfonate | 18.9 | 19.86 | 18.9 | 17.74 | 105 | 94 | 70-130 | 11 | 30 |
| Perfluorohexanoic acid | 20 | 20.01 | 20 | 18.74 | 100 | 94 | 70-130 | 7 | 30 |
| Perfluorononanoic acid | 20 | 16.02 | 20 | 17.22 | 80 | 86 | 70-130 | 7 | 30 |
| Perfluoro-octanesulfonate | 19.1 | 16.81 | 19.1 | 15,36 | 88 | 80 | 70-130 | 9 | 30 |
| Perfluorooctanoic acid | 20 | 18.37 | 20 | 17.29 | 92 | 86 | 70-130 | 6 | 30 |
| Perfluorotetradecanoic acid | 20 | 17.4 | 20 | 17.46 | 87 | 87 | 70-130 | 0 | 30 |
| Perfluorotridecanoic acid | 20 | 21.08 | 20 | 19.7 | 105 | 99 | 70-130 | 7 | 30 |
| Perfluoroundecanoic acid | 20 | 14.18 | 20 | 14.5 | 71 | 73 | 70-130 | 2 | 30 |
| | | | | | | | | | |

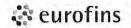
^{*-} Outside of specification

P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

^{**-}This limit was used in the evaluation of the final result for the blank

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.



Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Quality Control Summary

Client Name: Converse Laboratories, Inc.

Group Number: 1729266

Reported: 12/08/2016 10:36

LCS/LCSD (continued)

| Analysis Name | LCS Spike Added % | LCS Conc | LCSD Spike Added % | LCSD Conc | LCS %REC | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|----------------------------|-------------------------|-------------|--------------------------|--------------|-------------|--------------|--------------------|-----|------------|
| Batch number: 16326820007A | Sample number | r(s): 8680 | 107-8680113 | | | | | | |
| Moisture | 89.5 | 89.43 | | | 100 | | 99-101 | | |

MS/MSD

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike

| Analysis Name | Unspiked Conc ng/g | MS Spike Added ng/g | MS Conc ng/g | MSD Spike Added ng/g | MSD Conc ng/g | MS %Rec | MSD %Rec | MS/MSD Limits | RPD | RPD Max |
|-----------------------------|--------------------------|---------------------------|--------------------|----------------------------|---------------------|------------|-------------|------------------|-----|------------|
| Batch number: 16315006 | Sample numb | er(s): 8680 | 107-868 | 0113 UNSPK: | 8680113 | | | | | |
| NEtFOSAA | N.D. | 19.12 | 21.54 | | | 113 | | 70-130 | | |
| NMeFOSAA | N.D. | 19.12 | 24.75 | | | 129 | | 70-130 | | |
| Perfluorobutanesulfonate | N.D. | 16.92 | 15.26 | | | 90 | | 70-130 | | |
| Perfluorodecanoic acid | N.D. | 19.12 | 17.65 | | | 92 | | 70-130 | | |
| Perfluorododecanoic acid | N.D. | 19.12 | 15.48 | | | 81 | | 70-130 | | |
| Perfluoroheptanoic acid | N.D. | 19.12 | 17.6 | | | 92 | | 70-130 | | |
| Perfluorohexanesulfonate | N.D. | 18.07 | 17.96 | | | 99 | | 70-130 | | |
| Perfluorohexanoic acid | N.D. | 19.12 | 17.22 | | | 90 | | 70-130 | | |
| Perfluorononanoic acid | N.D. | 19.12 | 16.81 | | | 88 | | 70-130 | | |
| Perfluoro-octanesulfonate | N.D. | 18.26 | 15.74 | | | 86 | | 70-130 | | |
| Perfluorooctanoic acid | N.D. | 19.12 | 17.57 | | | 92 | | 70-130 | | |
| Perfluorotetradecanoic acid | N.D. | 19.12 | 18.51 | | | 97 | | 70-130 | | |
| Perfluorotridecanoic acid | N.D. | 19.12 | 20.37 | | | 107 | | 70-130 | | |
| Perfluoroundecanoic acid | N.D. | 19.12 | 16.39 | | | 86 | | 70-130 | | |

Laboratory Duplicate

Background (BKG) = the sample used in conjunction with the duplicate

| Analysis Name | BKG Conc | DUP Conc | DUP RPD | DUP RPD Max |
|----------------------------|-------------------|----------------------|---------|-------------|
| | 8 | % | | |
| Batch number: 16326820007A | Sample number(s): | 8680107-8680113 BKG: | 8680109 | |
| Moisture | 16.68 | 17.47 | 5 | 5 |

P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

^{*-} Outside of specification

^{**-}This limit was used in the evaluation of the final result for the blank

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.

Environmental Analysis Request/Chain of Custody

| Lancaster Laboratories Environmental | 7 | | Acet. # 3 | 38055 | Group # | 1729 | 1729266 | Sample # | Sample # (880/07-13 | | | |
|---|-------------------------------|-------------|------------------|------------|------------------|-----------|--|--------------|--------------------------|------------|---|------------------------------------|
| Client: CONVERSE LABS | | | | | Matrix | | | Analyse | Analyses Requested | | For Lab Use Only | e Only |
| Project Name/#: FORT DRUM | Site ID #: | | | | | | | Preserv | Preservation Codes | | SF#: | |
| Project Manager: | P.O.#: | EA16-1688 | | enss | | | | | | | SCR #: | |
| Sampler: NELSON & CORONA | PWSID #: | | | iT [| Sur | S. | (SE | | | | Preservat | Preservation Codes |
| Phone #: | Quote #: | | | tn | | ıəuji | ГАЦЕ | | | | H= HCI | T = Thiosulfate |
| State where samples were collected: ny For | For Compliance: | Yes | No No | ات amik | SES | quo; | ANA | | | | N = HNO3 | B = NaOH |
| | Colle | Collection | | posite | NP[| O to # li | ⊅ TT∀) | | | | S = H ₂ SO ₄ O = Other | P = H ₃ PO ₄ |
| Sample Identification | Date | Time | Gra | Con | 15W | | PFC | | | | | Remarks |
| SB-1-SUMP | 1-Nov | 1405 | x | 7 | | | ı | | | | | |
| SB-1-DRAIN | 1-Nov | 1615 | × | | | | ı | | | | | |
| SB -2-SUMP | 2-Nov | 955 | × | | 7 | | ı | | | | | |
| SB-2-DRAIN | 2-Nov | 1030 | × | | | | ı | | | | | |
| SB-3-SUMPA | 2-Nov | 1545 | × | | | | ı | | | | | |
| SB-3 SUMPB | 2-Nov | 1600 | × | | | | - | | | 1 | | |
| SB-3 -DRAIN | 2-Nov | 1630 | × | | | | - | | | | | |
| | | | | | | | | | | | | |
| Andrew Arms | | | | | | | | | | | | |
| Turnaround Time Requested (TAT) (please check): Standard (Rush TAT is subject to laboratory approval and surcharges.) | ck): Stan proval and surch | Standard 🖸 | Rush | - Relin | Relinguished by: | CX (V | Date 2 | Time (SQ) | Received by: | | Date | Time |
| Date results are needed: 11/21/16 | | | | Reling | Relinquished by: |) | Date | e Time | Received by: | | Date | Time |
| Rush results requested by (please check): E-M | E-Mail | Pho | Phone | | | | | / | | 1 | | |
| E-mail Address: customerservice2@converselabs.com | selabs.com | | | Reling | Relinquished by: | | Date | Time | Received by: | 1 | Date | Time |
| Data Package Options (please check if required) Type I (Validation/non-CLP) □ MA MCP | | | | Reling | Relinquished by: | 1 | Date | Time | Received by: | | Date | Time |
| Type III (Reduced non-CLP) CT RCP Type VI (Raw Data Only) TX TRRP-13 | P-13 | | | Reling | Relinquished by: | | Date | Time | Received by: | | Date 11.4.14 | Time & o o |
| NJ DKQP NySDEC | NYSDEC Category | □ A c | A or \square B | | uished by (| by Commer | Relinquished by Commercial Carrier. UPS Fedex Cother | | Temperature upon receipt | on receipt | ۲.) | ပ |
| Furnifier 1 an | har I aboratoriae | Environment | 110.0 | 425 New H | olland Pike | lancaet | r PA 17601 | • 717.656.23 | 00 | | | TONE DON |

Page 12 of 14



Sample Administration Receipt Documentation Log

Doc Log ID:

167234

Group Number(s):

29266

Client: Converse

Delivery and Receipt Information

Delivery Method:

Fed Ex

Arrival Timestamp:

11/04/2016 8:00

Number of Packages:

1

Number of Projects:

1

State/Province of Origin:

NY

Arrival Condition Summary

Shipping Container Sealed:

Yes No

Sample IDs on COC match Containers:

Yes

Custody Seal Present:

Yes

Sample Date/Times match COC:

No

Samples Chilled:

VOA Vial Headspace ≥ 6mm: Total Trip Blank Qty:

N/A 0

Paperwork Enclosed:

Yes Yes

Air Quality Samples Present:

No

Samples Intact: Missing Samples:

No

Extra Samples: Discrepancy in Container Qty on COC: No No

Unpacked by Timothy Cubberley (6520) at 08:40 on 11/04/2016

Samples Chilled Details

Thermometer Types:

DT = Digital (Temp. Bottle)

IR = Infrared (Surface Temp)

All Temperatures in °C.

Corrected Temp

Therm, Type

Ice Present? Ice Type

Ice Container

Elevated Temp?

Cooler # Thermometer ID 32170023

1.4

IR

Ice Pack

Bagged

Sample Date/Time Discrepancy Details

Sample ID on COC

Date/Time on Label

Comments

SB-1-SUMP

11/01/2016 14:15

Time on CoC marked at 14:05



Lancaster Laboratories Environmental

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

| BMQL | Below Minimum Quantitation Level | mg | milligram(s) |
|-----------------|----------------------------------|----------|-------------------------------|
| C | degrees Celsius | mL | milliliter(s) |
| cfu | colony forming units | MPN | Most Probable Number |
| CP Units | cobalt-chloroplatinate units | N.D. | none detected |
| F | degrees Fahrenheit | ng | nanogram(s) |
| g | gram(s) | NTU | nephelometric turbidity units |
| IŬ | International Units | pg/L | picogram/liter |
| kg | kilogram(s) | RL | Reporting Limit |
| Ĺ | liter(s) | TNTC | Too Numerous To Count |
| lb. | pound(s) | µg | microgram(s) |
| m3 | cubic meter(s) | μL | microliter(s) |
| meq | milliequivalents | umhos/cm | micromhos/cm |
| | | | |

< less than

> greater than

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg) or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an

as-received basis.

Laboratory Data Qualifiers:

B - Analyte detected in the blank

C - Result confirmed by reanalysis

E - Concentration exceeds the calibration range

J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)

P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.

U - Analyte was not detected at the value indicated

V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference...

W - The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff.

This report shall not be reproduced except in full, without the written approval of the laboratory.

Times are local to the area of activity. Parameters listed in the 40 CFR Part 136 Table II as "analyze immediately" are not performed within 15 minutes.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

CE

CONVERSE LABORATORIES, INC.

Chain of Custody EAICE-1688

800 Starbuck Ave., Suite B101

Watertown, NY 13601

| 0.000-007 (0.10) | | Client Project ID / | ID / PO#: | | Ma | Matrix Codes | | Sample Information: | 13 |
|----------------------------------|--|---------------------|------------------|--------------|-----------------------|--|-------------|--|--------------------------------|
| Fort Drum | | Govt Credit Card | ard | | DW= Drinking V | DW= Drinking Water GW= Ground Water | | Z. | |
| Client Address: | | × Sign | iann | 7 | WW= Was SW= Surf | WW= Waste Water SL= Sludge SW= Surface Water SO= Soil | | Chlorinated UV | |
| Phone #: 315-523-2143 | Fax#: 315-772-8050 | | | | Prese | Preservative Codes | | NOTES TO LABORATORY | ORY |
| E-Mail address: diane.h.covell.c | E-Mail address: diane.h.covell.civ@mail.mil , Scotte.fotoes@wsdce. | T | | | m | 2= HCl 3= H ₂ SO ₄ | | | |
| Contact/Report to: Diane Covell | Covell | 7 | ds se | je | 7= NH ₄ CL | 5= NaOH 6= ASOFDIC ACIU | North North | Normal TAT Rush TAT | |
| Sampler: Nelson & C | Corona | | poo | _ | -6 | 10= | | Date Needed: | a.m. / p.m. |
| | The second secon | | əəs - | | List Prese | List Preservative Code Below | | ANALYSIS / TEST | 1 |
| | | | 70 = 6 Xintel | ihold(| 60 | | | REQUESTED | SAMPLE ID # (lab use only) |
| Collected Collected | 1 | | u (| - | | | PF | Handler | |
| 1111/3016 1405 | 5B-1-SWMP | 7 | 25 | 1 | + | | - | 1 2 2 1 | |
| 11/1/2016 1615 | SB-7-Drain | , | S 20 | | | | - | | |
| | 58-2-Sump | 7 | C So | | | | - | | |
| 8112/auth 1030 | 58-3- Dain | 2 | 20 | | | | | | |
| 11/2/2016 1545 | SB3-Swarp A | 1 | 50 | | | | | | |
| - | SB-3-SumpB | 2 | 8 | | | | | | |
| 11/1/2016 1630 | S6-3- Drain | 1 | 68) | | 7 | | | | |
| - | | | | | | | | 4 | |
| | Deta | Time | | Received by: | by: | Date | Time Temp° | AUTHORIZED RECIPIENTS & CONTACT INFO: | NTS & CONTACT |
| Relinquished by: | | - | Zww g | 679 | d | 113/16/11 | 11.15 | | |
| Kather 1 | 11/3/2016 | - | 700 | | 99 | | | | |
| | | | × | | | | | SAMPLE(S) AS RECEIVED CONFORM TO NELAC STANDARDS | ED CONFORM TO |
| | | | | | | | | YES NO | NO SHED SHEET |
| | | | | | | | • | IF NO, SEE ALLA | מובח פו ובביו |

| | | Check# | it. |
|-----------|------------|--------|-------|
| Amt. Due: | Amt. Paid: | Cash: | Credi |
| | | | |

Transcriptual Rev.: Final Review: Initial Review:

Rev. # 12 Page 1 of 1 Doc. # 357 12/19/2013

Environmental Analysis Request/Chain of Custody

| Client: CONVERSE LABS | | | | Matrix | | | Analy | ses R | Analyses Requested | For Lab Use Only | Only |
|---|-----------------|------------|---------|-------------------------------------|------------------|------------------------|----------|---------|------------------------------|---|------------------------------------|
| Na | Site ID #: | | | | | | Pres | ervatic | Preservation Codes | SF#: | 1 |
| | P.O.#: | EA16-1688 | | | | | | | | SCR#: | |
| Sampler: NELSON & CORONA | PWSID #: | | | Tis Groi Surf | | (SE | | | | Preservation Codes | Codes |
| Phone #: | Quote #: | | | | iəuje | TATE | | | | H= HCI | T = Thiosulfate |
| ere samples were collected: ny | For Compliance: | Yes | N 8 | apple SES | quo; | ANA | | | | N = HNO ₃ B= | B = NaOH |
| | Colle | Collection | | Pots Per | er: را # of C | ∀ ΓΓ 1 ∀ | | | | S = H ₂ SO ₄ P = 0 = 0 ther | P = H ₃ PO ₄ |
| Sample Identification | Date | Time | Grab | | Othe | PFC | | | | Remarks | ķs |
| SB-1-SUMP | 1-Nov | 1405 | X | 100 | | l | | | | | |
| SB-1-DRAIN | 1-Nov | 1615 | × | | | L | | | | | |
| SB -2-SUMP | 2-Nov | 922 | × | | | ı | | | | | |
| SB-2-DRAIN | 2-Nov | 1030 | × | | | ı | ۱, ا | | | | |
| SB-3-SUMPA | 2-Nov | 1545 | × | | | ı | | | | | 1 |
| SB-3 SUMPB | 2-Nov | 1600 | × | | | ~ | | | | | |
| SB-3 -DRAIN | 2-Nov | 1630 | × | | | - | | | | | 1 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| Turnaround Time Requested (TAT) (please check): Standard (Rush TAT is subject to laboratory approval and surcharges.) | ck): Star | Standard < | Rush | Relinguished by | | = = | Date 1 | Time 5 | Received by: | Date | Time |
| Date results are needed: 11/21/16 | | 9 | | Relinquished by | by. | | | Time | Received by: | Date | Time |
| y (please check): | E-Mail | Phone | ine 🗆 | | | -1 | + | | | 4 | i. |
| E-mail Address: <u>customerservice2@converselabs.com</u> | selabs.com | | | Relinquished by: | ey: | | Date | e E | Kecelved by: | Oate | <u> </u> |
| Data Package Options (please check if required) Type I (Validation/non-CIP) | £ . | | | Relinquished by: | by: | | Date | Time | Received by: | Date | Time |
| | P-13 | | | Relinquished by: | by: | | Date | Time | Received by: | Date | Time |
|] [| NYSDEC Category | □ A or | Pr B | Relinquished by Commercial Carrier. | by Comme | rcial Carr | ier: | | tomperating in a contraction | <u>t</u> | ç |
| EDD Required? Yes 🗌 No 📋 If ye | If yes, format: | | | UPS | FOOTX | Other | <u>_</u> | | Chipolatal a upoli loca | 100 |) |

Lancaster Laboratories Environmental

Analysis Report

2425 New Holland Pike, Lancaster, PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Sample Description: Fire Pit Water Grab Surface Water

Fort Drum

LL Sample # WW 8422678

LL Group # 1671282

Account

38055

Project Name: Fort Drum

Collected: 06/09/2016 09:55

by DC

Converse Laboratories, Inc.

800 Starbuck Ave

Suite B101

Watertown NY 13601

Submitted: 06/10/2016 09:25 Reported: 08/16/2016 10:23

| | CAT No. | Analysis Name | CAS Number | Result | Method Detection Limit* | Limit of Quantitation | Dilution Factor |
|----------|---------------|-----------------------------------|-------------------|-----------------------|----------------------------|--------------------------|--------------------|
| | Misc. | Organics EPA 537 Re | v. 1.1 | ng/l | ng/l | ng/l | |
| _ | | modified | | | | | |
| / PF-OA) | 10954 | Perfluorooctanoic acid |]335-67-1 <u></u> | 30,000 | 200 | 400 | 200 |
| (h) | 10954 | Perfluorononanoic acid | 375-95-1 | 2,100 | 200 | 400 . | 200 |
| | 10954 | Perfluorodecanoic acid | 335-76-2 | 780 | 200 | 400 | 200 |
| | 10954 | Perfluoroundecanoic acid | 2058-94-8 | 63 J | 40 | 80 | 20 |
| | 10954 | Perfluorododecanoic acid | 307-55-1 | N.D. | 60 | 100 | 20 |
| | 10954 | Perfluorotridecanoic acid | 72629-94-8 | N.D. | 40 | 80 | 20 |
| | 10954 | Perfluorotetradecanoic acid | 376-06-7 | N.D. | 60 | 100 | 20 |
| | 10954 | Perfluorohexanoic acid | 307-24-4 | 530,000 | 2,000 | 4,000 | 2000 |
| | 10954 | Perfluoroheptanoic acid | 375-85-9 | 28,000 | 200 | 400 | 200 |
| | 10954 | Perfluorobutanesulfonate | 375-73-5 | 10,000 | 800 | 2,000 | 200 |
| | 10954 | Perfluorohexanesulfonate . | 355-46-4 | 90,000 | 800 | 2,000 | 200 |
| (beos) | *10954 | Perfluoro-octanesulfonate | (1763-23-1) | 280,000 | 1,000 | 2,000 | 200 |
| | 10954 | NELFOSAA | 2991-50-6 | N.D. | 100 | 200 | 20 |
| | | NETFOSAA is the acronym for N-eth | yl perfluorooc | tanesulfonamidoacetic | Acid. | | |
| | 10954 | NMeFOSAA | 2355-31-9 | N.D. | 800 | 2,000 | 200 |
| | | NMeFOSAA is the acronym for N-met | hyl perfluoroo | ctanesulfonamidoaceti | c Acid. | | |

Sample Comments

State of New York Certification No. 10670

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

modified

Laboratory Sample Analysis Record Method CAT Analysis Name Trial# Batch# Analysis Analyst Dilution Date and Time Factor 16166005 Jason W Knight 10954 14 PFCs in Water BPA 537 Rev. 1.1 06/21/2016 00:48 20 modified 06/21/2016 00:48 10954 14 PFCs in Water 16166005 Jason W Knight BPA 537 Rev. 1.1 1 200 modified 10954 14 PFCs in Water 16166005 06/21/2016 01:04 Jason W Knight 200 EPA 537 Rev. 1.1 modified 06/21/2016 09:27 10954 14 PFCs in Water EPA 537 Rev. 1.1 modified 16166005 Jason W Knight 2000 EPA 537 Rev. 1.1 06/15/2016 09:40 14091 PFAA Water Prep 16166005 Jacon W Knight

Lancaster Laboratories Environmental

Analysis Report

2425 New Holland Pike, Lancaster PA 17601 • 717-656-2300 • Fax: 717-656-2681 • www.LancasterLabs.com

Quality Control Summary

Client Name: Converse Laboratories, Inc.

Reported: 08/16/2016 10:23

Group Number: 1671282

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Method Blank

| Analysis Name | Result | MDL** | FOO |
|-----------------------------|------------|-------------|------|
| | ng/l | ng/l | ng/l |
| Batch number: 16166005 | Sample num | ber(s): 842 | 2678 |
| Perfluorooctanoic acid | N.D. | 1 | 2 |
| Perfluorononanoic acid | N.D. | 1 | 2 |
| Perfluorodecanoic acid | N.D. | 1 | 2 |
| Perfluoroundecanoic acid | N.D. | 2 | 4 |
| Perfluorododecanoic acid | N.D. | 3 | 5 |
| Perfluorotridecanoic acid | N.D. | 2 | 4 |
| Perfluorotetradecanoic acid | N.D. | 3 | 5 |
| Perfluorohexanoic acid | N.D. | 1 | 2 |
| Perfluoroheptanoic acid | N.D. | 1 | 2 |
| Perfluorobutanesulfonate | N.D. | 4 | 10 |
| Perfluorohexanesulfonate | N.D. | 4 | 10 |
| Perfluoro-octanesulfonate | N.D. | 5 | 10 |
| NELFOSAA | N,D. | 5 | 8 |
| NMeFOSAA | N.D. | 4 | 8 |

LCS/LCSD

| Analysis Name | LCS Spike Added ng/l | LCS Conc ng/l | LCSD Spike Added ng/l | LCSD Conc ng/1 | LCS %rec | LCSD %REC | LCS/LCSD Limits | RPD | RPD Max |
|-----------------------------|----------------------------|---------------------|-----------------------------|----------------------|-------------|--------------|--------------------|-----|------------|
| Batch number: 16166005 . | Sample number | r(a): 84226 | 78 | | | | | | |
| Perfluorooctanoic acid | 200 | 184.49 | 200 | 195.14 | 92 | 98 | 70-130 | 6 | 30 |
| Perfluorononanoic acid | 200 | 154.31 | 200 | 180.6 | 77 | 90 | 70-130 | 16 | 30 |
| Perfluorodecanoic acid | 200 | 158.83 | 200 | 176.64 | 79 | 88 | 70-130 | 11 | 30 |
| Perfluoroundecanoic acid | 200 | 165.69 | 200 | 193.16 | 83 | 97 | 70-130 | 15 | 30 |
| Perfluorododecanoic acid | 200 | 154.05 | 200 | 163.63 | 77 | 82 | 70-130 | 6 | 30 |
| Perfluorotridecanoic acid | 200 | 152,73 | 200 | 167.97 | 76 | 84 | 70-130 | 10 | 30 |
| Perfluorotetradecanoic acid | 200 | 171,86 | 200 | 189.37 | 86 | 95 | 70-130 | 10 | 30 |
| Perfluorohexanoic acid | 200 | 178.52 | 200 | 191.14 | 89 | 96 | 70-130 | 7 | 30 |
| Perfluoroheptanoic acid | 200 | 172.36 | 200 | 186.78 | 86 | 93 | 70-130 | 8 | 30 |
| Perfluorobutanesulfonate | 176.8 | 128.1 | 176.8 | 177.69 | 72 | 101 | 70-130 | 32* | 30 |
| Perfluorohexanesulfonate | 189.2 | 156.27 | 189.2 | 178.14 | 83 | 94 | 70-130 | 13 | 30 |
| Perfluoro-octanesulfonate | 191.2 | 145.71 | 191.2 | 183.01 | 76 | 96 | 70~130 | 23 | 30 |
| NEtFOSAA | 200 | 177,61 | 200 | 157,67 | 89 | 79 | 70-130 | 12 | 30 |
| NMeFOSAA | 200 | 215.2 | 200 | 261 | 108 | 130 | 70-130 | 19 | 30 |

^{*-} Outside of specification

^{**-}This limit was used in the evaluation of the final result for the blank

⁽¹⁾ The result for one or both determinations was less than five times the LOQ.

⁽²⁾ The unspiked result was more than four times the spike added.

P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.



APPLIED TECHNICAL SERVICES, INCORPORATED

1049 Triad Court, Marietta, Georgia 30062 • (770) 423-1400 Fax (770) 424-6415

CHEMICAL TEST REPORT

Ref. C262640

Date October 25, 2016

Page 1

of

1

Attention: Diane Covell

Materials Specification: N/A

P.O.#

Customer: Converse Laboratories

Test Methods: EPA Method 3545A Pressurized Fluid

800 Starbuck Ave, Suite B101

Extraction (PFE) and EPA Method

Watertown, NY 13601

8321B Solvent Extractable Nonvolatile Compounds by High Performance Liquid

Chromatography/ Thermospray/Mass Spectrometry (HPLC/TS/MS) or

Samples: See Below

16207

Ultraviolet (UV) Detection

Test Results

| Sample | | Resu | ılts | |
|------------------|----------------|--------------------|------------|------------|
| | PFO | A | PF | OS |
| | ppb (μg/L) | ppm (mg/L) | ppb (μg/L) | ppm (mg/L) |
| 2072 PFOA + PFOS | 25.790 | 0.026 | 156.0 | 0.156 |
| Crash Truck #1 | N.D. < 100 ppt | N/A | 1361.2 | 1.36 |
| Crash Truck #2 | 42.440 | 0.042 ⁻ | 137160 | (137) |
| Crash Truck #3, | N.D. < 100 ppt | N/A | 4035.6 | 4.04 |
| Crash Truck #4 | N.D. < 100 ppt | N/A | 873.0 | 0.873 |
| Crash Truck #5 | N.D. < 100 ppt | N/A | 3286.4 | 3.29 |

The sample was analyzed for PFOA and PFOS with a detection limit of 100 parts per trillion (ppt) ug/L.

N. D. < 100 - None Detected, less than 100 parts per trillion.

SO 9001

Prepared by:

William Carson

Chemist

Approved by:

P. E. Rogers

Manager

This report may not be reproduced except in full without the written approval of ATS. This report represents interpretation of the results obtained from the test specimen and is not to be construed as a guarantee or warranty of the condition of the entire material lot. If the method used is a customer provided, nonstandard test method, ATS does not assume responsibility for validation of the method. Measurement uncertainty is available upon request where applicable.



Water Quality and Sampling Data Sheets





GROUNDWATER FIELD DATA LOG

1. CLIENT: USACE DATE: 8 Sept. 2016

SAMPLED BY: Nelson/Layman TIME: 1040

WEATHER CONDITIONS: 78 °F, mostly cloudy, wind: 11 mph

| Location | : Fort Drum | n Fire Traini | ng Pit | | | • | | V-1-Sept 201 pt 2016 (PF | |
|--|---|---|---------------------------------------|--------------|-----------------------|---------|----------------|-----------------------------|--|
| # OF CONT SAMPLING SAMPLES I 2. WAT MEASURIN METHOD C | REQUESTED: FAINERS: METHOD: FILTERED: ER LEVEL D G POINT: DF MEASUREN | 1 (VOCs), Perista Bladde YES ATA Top of MENT: Wate | 2 (PFCs) altic Pump er Pump NO casing | DUP | V FLOW: PLICATE SA | AMPLE | ⊠YES : ∐YES | □no ⊠no | |
| 3. WELL | EVACUAT | ION DATA | | | | | | | |
| | Well I | Depth (wd): | 41.76 | (ft) | Diamete | er (d): | 2.00 | (in) | |
| | Depth to V | Vater (dw): | 22.76 | (ft) | Diamete | er (d): | 0.167 | (ft) | |
| | | We | ell Volum | e = (5.904 x | x d²(wd-c | = ((wb | 3.12 | (gallons) | |
| | | Flow Rate: | | (ml/min) | | e Vol: | 0.0 | (gallons) | |
| | Length of Ti | me Purged: | | (minutes) | Purge | Time: | | | |
| | Amoı | unt Purged: | 5.5 | (gallons) | Pump D | epth: | | | |

4. FIELD PARAMETERS

| INSTRUMENT | CALIBRATED |
|---------------------------------|------------|
| pH Meter – 4.01, 7.00, 9.99 | |
| Conductivity Meter – 1.14 mS/cm | |
| Temperature – | |
| Turbidity Meter – | |
| DO Meter – 96.9% | |
| ORP Meter – 240.0 | |
| CO ₂ - | |

| Time | 09:59 | 10:04 | 10:09 | 10:14 | 10:19 | 10:23 |
|-------------------|-------|-------|-------|-------|-------|-------|
| Temp. °C | 13.3 | 13.1 | 13.2 | 13.3 | 13.0 | 13.4 |
| DO (mg/L) | 7.65 | 7.50 | 7.58 | 7.72 | 7.78 | 7.63 |
| Sp. Cond. (mS/cm) | 0.152 | 0.150 | 0.151 | 0.151 | 0.151 | 0.151 |
| рН | 8.12 | 8.12 | 8.21 | 8.28 | 8.40 | 8.38 |
| ORP (mV) | 238.5 | 240.9 | 236.6 | 232.8 | 225.6 | 225.1 |
| Turb. (NTU) | 11.23 | 9.11 | 7.59 | 6.41 | 5.70 | 4.67 |
| Water Level | 23.35 | 23.35 | 23.32 | 23.35 | 23.35 | 23.35 |

5. Notes:

Start of Pumping: 0939 Sample Time: 1040



GROUNDWATER FIELD DATA LOG

1. CLIENT: USACE DATE: 8 Sept. 2016

SAMPLED BY: Nelson/Layman TIME: 1350

WEATHER CONDITIONS: 78 °F, mostly cloudy, wind: 11 mph

| Location | า: Fort Drun | n Fire Traini | ng Pit | | | • | | V-2-Sept 20 pt 2016 (PF | • |
|----------|---------------------------------------|--------------------------|-------------------------|--------------|----------|----------|----------------|----------------------------|---|
| # OF CON | REQUESTED FAINERS: G METHOD: | 1 (VOCs), Perista Bladde | | | V FLOW: | | ⊠YES : □YES | □no ⊠no | |
| MEASURIN | ER LEVEL D NG POINT: OF MEASURE | ⊠Top of | casing [er level me | _ | | | | | |
| 3. WEL | L EVACUAT | ION DATA | | | | | | | |
| | Well | Depth (wd): | 35.45 | (ft) | Diame | ter (d): | 2.00 | (in) | |
| | Depth to \ | Water (dw): | 25.39 | (ft) | Diame | ter (d): | 0.167 | (ft) | |
| | | We | ell Volum | e = (5.904 x | x d²(wd- | -dw)) = | 1.65 | (gallons) | |
| | | Flow Rate: | | (ml/min) | Pur | ge Vol: | 0.0 | (gallons) | |
| | Length of Ti | me Purged: | | (minutes) | Purge | e Time: | | | |
| | Amo | unt Purged: | 7 | (gallons) | Pump | Depth: | | | |

4. FIELD PARAMETERS

| INSTRUMENT | CALIBRATED |
|---------------------------------|------------|
| pH Meter – 4.01, 7.00, 9.99 | |
| Conductivity Meter – 1.14 mS/cm | |
| Temperature – | |
| Turbidity Meter – | |
| DO Meter – 96.9% | |
| ORP Meter – 240.0 | |
| CO ₂ - | |

| Time | 13:19 | 13:24 | 13:30 | 13:35 | 13:40 | 13:45 |
|-------------------|-------|-------|-------|-------|-------|-------|
| Temp. °C | 13.1 | 13.7 | 13.2 | 13.2 | 13.6 | 13.3 |
| DO (mg/L) | 8.88 | 8.91 | 8.64 | 8.72 | 8.81 | 8.81 |
| Sp. Cond. (mS/cm) | 0.159 | 0.161 | 0.160 | 0.160 | 0.162 | 0.161 |
| рН | 8.19 | 8.19 | 8.24 | 8.23 | 8.30 | 8.26 |
| ORP (mV) | 220.3 | 221.0 | 220.3 | 221.5 | 217.8 | 221.8 |
| Turb. (NTU) | 25.72 | 17.11 | 18.87 | 10.23 | 9.27 | 9.30 |
| Water Level | 25.35 | 25.36 | 25.35 | 25.35 | 25.35 | 25.35 |

5. Notes:

Start of Pumping: 1238 Sample Time: 1350



GROUNDWATER FIELD DATA LOG

1. CLIENT: USACE DATE: 8 Sept. 2016

SAMPLED BY: Nelson/Layman TIME: 1545

WEATHER CONDITIONS: 80 °F, mostly cloudy, wind: 11 mph

| Location: Fort Drum Fire Training Pit | | | | | | Sample ID: MW-3-Sept 2016 (VOCs) FDFT-MW 3-Sept 2016 (PFCs) | | | |
|---|---|---|-----------|--------------|----------------|---|-----------|---|--|
| # OF CONTA SAMPLING SAMPLES F 2. WATE MEASURING METHOD O | REQUESTED: AINERS: METHOD: ILTERED: ER LEVEL D G POINT: F MEASURE | 3 (VOCs), 4 + 1 Field Blank (PFCs) ☐ Peristaltic Pump ☐ LOW FLOW: ☐ SAMPLE: ☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO | | | | | | | |
| 3. WELL | EVACUAT | | | | | | | 1 | |
| | Well | Depth (wd): | 35.3 | (ft) | Diameter (d) | : 2.00 | (in) | | |
| | Depth to \ | Vater (dw): | 25.51 | (ft) | Diameter (d) | : 0.167 | (ft) | | |
| | | We | ell Volum | e = (5.904 x | k d²(wd-dw)) = | 1.61 | (gallons) | | |
| | | Flow Rate: | | (ml/min) | Purge Vol | : 0.0 | (gallons) | | |
| | Length of Ti | me Purged: | | (minutes) | Purge Time | : | | | |
| | Amo | unt Purged: | 4.5 | (gallons) | Pump Depth | : | | | |

4. FIELD PARAMETERS

| INSTRUMENT | CALIBRATED |
|---------------------------------|-------------|
| pH Meter – 4.01, 7.00, 9.99 | |
| Conductivity Meter – 1.14 mS/cm | |
| Temperature – | \boxtimes |
| Turbidity Meter – | |
| DO Meter – 96.9% | \boxtimes |
| ORP Meter – 240.0 | |
| CO ₂ - | |

| Time | 15:15 | 15:20 | 15:25 | 15:30 | 15:35 | 15:40 |
|-------------------|-------|-------|-------|-------|-------|-------|
| Temp. °C | 15.5 | 15.9 | 15.0 | 15.2 | 14.9 | 14.5 |
| DO (mg/L) | 9.13 | 9.17 | 9.40 | 8.78 | 9.20 | 9.17 |
| Sp. Cond. (mS/cm) | 0.248 | 0.252 | 0.255 | 0.257 | 0.256 | 0.256 |
| рН | 7.18 | 7.33 | 7.35 | 7.40 | 7.45 | 7.51 |
| ORP (mV) | 221.2 | 207.0 | 209.0 | 209.3 | 207.2 | 205.3 |
| Turb. (NTU) | 21.61 | 13.28 | 8.45 | 6.23 | 5.22 | 4.93 |
| Water Level | 25.55 | 25.55 | 25.55 | 25.55 | 25.55 | 25.55 |

5. Notes:

Start of Pumping: 1432 Sample Time: 1545



GROUNDWATER FIELD DATA LOG

1. CLIENT: USACE DATE: 8 Sept. 2016

SAMPLED BY: Nelson/Layman TIME: 1724

WEATHER CONDITIONS: 80 °F, mostly cloudy, wind: 11 mph

| Location: Fort Dru | | Sample ID: MW-4-Sept 2016 (VOCs FDFT-MW 4-Sept 2016 (PFCs) | | | | | |
|--|--------------------------|--|--------------|--------------------------|------------------|-----------|--|
| PRESERVATIVE: ANALYSES REQUESTE # OF CONTAINERS: SAMPLING METHOD: SAMPLES FILTERED: | 2 (VOCs), Perista Bladde | | | V FLOW: PLICATE SAMPI | ⊠YES .E: ⊠YES | = | |
| WATER LEVEL MEASURING POINT: METHOD OF MEASUR WELL EVACUA | ∑Top of EMENT: Wate | | _ | | | | |
| Wel | Depth (wd): | 56.68 | (ft) | Diameter (d) | : 2.00 | (in) | |
| Depth to | Water (dw): | 25.47 | (ft) | Diameter (d) | : 0.167 | (ft) | |
| | W | ell Volum | e = (5.904 : | $x d^2(wd-dw)$ | = 5.12 | (gallons) | |
| | Flow Rate: | | (ml/min) | Purge Vo | | (gallons) | |
| Length of | Time Purged: | | (minutes) | Purge Time | | | |

4. FIELD PARAMETERS

Amount Purged:

| INSTRUMENT | CALIBRATED |
|---------------------------------|------------|
| pH Meter – 4.01, 7.00, 9.99 | |
| Conductivity Meter – 1.14 mS/cm | |
| Temperature – | |
| Turbidity Meter – | |
| DO Meter – 96.9% | |
| ORP Meter – 240.0 | |
| CO ₂ - | |

5.5 (gallons) Pump Depth:

| Time | 16:52 | 16:57 | 17:02 | 17:07 | 17:12 | 17:17 |
|-------------------|-------|-------|-------|-------|-------|-------|
| Temp. °C | 15.8 | 16.3 | 15.8 | 15.3 | 15.2 | 15.0 |
| DO (mg/L) | 9.93 | 10.55 | 10.24 | 10.78 | 10.77 | 10.68 |
| Sp. Cond. (mS/cm) | 0.088 | 0.088 | 0.088 | 0.088 | 0.088 | 0.087 |
| рН | 8.59 | 8.59 | 8.64 | 8.62 | 8.69 | 8.73 |
| ORP (mV) | 223.6 | 223.6 | 222.6 | 225.6 | 220.8 | 221.3 |
| Turb. (NTU) | 12.86 | 8.42 | 7.89 | 5.04 | 4.42 | 4.20 |
| Water Level | 25.53 | 25.53 | 25.53 | 25.53 | 25.53 | 25.53 |

5. Notes:

Start of Pumping: 1620 Sample Time: 1724





GROUNDWATER FIELD DATA LOG

1. CLIENT: Ft. Drum

SAMPLED BY: Forbes & Webster

WEATHER CONDITIONS: In-doors

DATE: 2-Jun-2016

TIME: 920

| Location | : Ft. Drum | , NY | | | Sampl | e ID: We | II 7 | | | | |
|-----------------------------------|--|--------------|------------------------|--------------------|------------------|----------|-------|-------|-------------|------|--|
| ANALYSES # OF CONT SAMPLING | PRESERVATIVE: Tizma ANALYSES REQUESTED: Method 537 FOF CONTAINERS: HAMPLING METHOD: Peristaltic Pump LOW FLOW: YES NO Bladder Pump DUPLICATE SAMPLE: YES NO HAMPLES FILTERED: YES NO permanent submersible. | | | | | | | | | | |
| MEASURIN METHOD (| OF MEASURE | | casing [evel not m | Other: leasured | | | | | | | |
| | Well | Depth (wd): | | (ft) | Diameter (d): | | (in) | | | | |
| | Depth to | Water (dw): | | (ft) | Diameter (d): | 0.000 | (ft) | | | | |
| | - | We | ell Volume | e = (5.904) | $(d^2(wd-dw)) =$ | 0.00 | (gall | lons) | | | |
| | | Flow Rate: | | (ml/min) | Purge Vol: | | | lons) | 1 | | |
| | Length of T | ime Purged: | 27 | (minutes) | Purge Time: | 920 | | | | | |
| | | ount Purged: | | (gallons) | Pump Depth: | | | | | | |
| 4. FIELD | PARAME | TERS | INSTRUM | 1ENT | | | | CA | LIBRA | ATED | |
| pH Meter | _ | | | | | | | | \boxtimes | | |
| Conducti | vity Meter – | | | | | | | | \boxtimes | | |
| Tempera | ture – | | | | | | | | \boxtimes | | |
| Turbidity | Meter – | | | | | | | | \boxtimes | , | |
| DO Mete | r – | | | | | | | | \boxtimes | | |
| ORP Met | er – | | | | | | | | \boxtimes | | |
| CO ₂ - | | | | | | | | | | | |
| | | | | | | | | | | | |
| Ti | me | 947 | | | | | | | | , | |
| Tem | ıp. °C | 10.9 | | | | | | | | | |
| DO (| mg/L) | 3.72 | | | | | | | | | |
| Sp. Cond | . (mS/cm) | 0.62 | | | | | | | | | |
| F | Н | 7.38 | | | | | | | | | |
| ORP | (mV) | 115.8 | | | | | | | | | |
| Turb. | (NTU) | 0 | | | | | | | | | |
| Wate | r Level | n/a | | | | | | | | | |

5. Notes: Sample t=947. Sampled from bypass spigot inside pump house. Approximatley 5 gallons flushed through spigot prior to sampling.



Water Level

n/a

U.S. ARMY CORPS OF ENGINEERS BALTIMORE DISTRICT GEOLOGY and HYDROGEOLOGY

GROUNDWATER FIELD DATA LOG

1. CLIENT: Ft. Drum **DATE:** 2-Jun-2016 **SAMPLED BY:** Forbes & Webster **TIME: 1020 WEATHER CONDITIONS: In-doors** Location: Ft. Drum, NY Sample ID: Well 11 PRESERVATIVE: Trizma **ANALYSES REQUESTED:** Method 537 # OF CONTAINERS: **SAMPLING METHOD:** Peristaltic Pump LOW FLOW: YES 🖂 NO Bladder Pump DUPLICATE SAMPLE: ☐YES ☒NO **SAMPLES FILTERED:** \square YES \boxtimes NO permanent submersible. 2. WATER LEVEL DATA MEASURING POINT: Top of casing Other: METHOD OF MEASUREMENT: GW level not measured 3. WELL EVACUATION DATA Well Depth (wd): (ft) Diameter (d): (in) Depth to Water (dw): Diameter (d): 0.000 (ft) (ft) 0.00 (gallons) Well Volume = $(5.904 \times d^2(wd-dw)) =$ Flow Rate: (ml/min) Purge Vol: 0.0 (gallons) Length of Time Purged: 1020 17 (minutes) Purge Time: Amount Purged: 2000 (gallons) Pump Depth: 4. FIELD PARAMETERS **INSTRUMENT CALIBRATED** pH Meter -Conductivity Meter -Temperature -X Turbidity Meter -DO Meter -ORP Meter -CO₂-Time 1037 Temp. °C 11.4 DO (mg/L) 3.32 Sp. Cond. (mS/cm) 0.415 рΗ 7.72 ORP (mV) -25.2 Turb. (NTU) 2.2

5. Notes: Sample t=1037. Sampled from bypass spigot inside pump house. Approximatley 5 gallons flushed through spigot prior to sampling.

FdqaszxaszGBHN JM BFABXSS888IO

U.S. ARMY CORPS OF ENGINEERS BALTIMORE DISTRICT GEOLOGY and HYDROGEOLOGY

GROUNDWATER FIELD DATA LOG



1. CLIENT: Ft. Drum

SAMPLED BY: S. Forbes

DATE: 14-Apr-2016

TIME: 1400

WEATHER CONDITIONS: 55F light breeze, clear

| Location | : Ft. Drum | | | | ! | Sampl | e ID: MV | V-13D-Apr-2 | 2016 |
|-----------|---|-------------|----------------|--------------|------------|---------|----------|-------------|------|
| PRESERVA | TIVE: | HCL | | | | | | | |
| ANALYSES | REQUESTED | - | | | | | | | |
| # OF CONT | AINERS: | | | | | | | | |
| SAMPLING | AMPLING METHOD: Peristaltic Pump LOW FLOW: YES NO | | | | | | | | |
| | | | <u>er Pump</u> | DUP | PLICATE SA | AMPLE | : ⊠YES | □NO | |
| SAMPLES | FILTERED: | YES | imesNO | | | | | | |
| | OF MEASURE | | ronic Wat | er Meter | | | | | |
| | Well | Depth (wd): | 146 | (ft) | Diamete | er (d): | 2.00 | (in) | |
| | Depth to \ | Water (dw): | 53.1 | (ft) | Diamete | er (d): | 0.167 | (ft) | |
| | | We | ell Volum | e = (5.904 : | x d²(wd-c | = ((wb | 15.24 | (gallons) | |
| | | Flow Rate: | | (ml/min) | Purg | e Vol: | 0.0 | (gallons) | |
| | Length of Ti | me Purged: | | (minutes) | Purge | Time: | | | |
| | Amo | unt Purged: | 4 | (gallons) | Pump C | epth: | | | |

4. FIELD PARAMETERS

| INSTRUMENT | CALIBRATED |
|----------------------|------------|
| pH Meter – | |
| Conductivity Meter – | |
| Temperature – | |
| Turbidity Meter – | |
| DO Meter – | |
| ORP Meter – | |
| CO ₂ – | |

| Time | 1612 | 1614 | 1616 | 1618 | 1620 |
|-------------------|-------|-------|-------|-------|-------|
| Temp. °C | 11.3 | 11.4 | 11.7 | 11.3 | 11.7 |
| DO (mg/L) | 3.4 | 3.2 | 3.1 | 3.1 | 3.0 |
| Sp. Cond. (mS/cm) | .245 | .244 | .243 | .241 | .242 |
| рН | 9.72 | 9.61 | 9.64 | 9.59 | 9.59 |
| ORP (mV) | -22.7 | -22.5 | -29.8 | -30.6 | -35.7 |
| Turb. (NTU) | 35.31 | 32.19 | 28.34 | 27.31 | 24.09 |
| Water Level | 53.1 | - | - | - | - |



GROUNDWATER FIELD DATA LOG

1. CLIENT: Ft. Drum DATE: 13-Apr-2016 SAMPLED BY: S. Forbes TIME: 1558

WEATHER CONDITIONS: 40F light breeze, clear

| Location: Ft. Drum | | | | | : | Sample ID: MW-16D5-Apr-2016 | | | |
|-----------------------|--------------|--------------------|----------------|--------------|------------------------|-----------------------------|-----------------|----------------|--|
| PRESERVA ⁻ | TIVE: | HCL | | | | | | | |
| ANALYSES | REQUESTED | : 8260B | | | | | | | |
| # OF CONT | AINERS: | | | | | | | | |
| SAMPLING | METHOD: | Perista | ltic Pump | LOW | V FLOW: | | \boxtimes YES | □NO | |
| | | \boxtimes Bladde | er Pump | DUP | LICATE S | AMPLE | : YES | \boxtimes NO | |
| SAMPLES F | ILTERED: | YES [| \boxtimes NO | | | | | | |
| | | MENT: Elect | ronic Wate | er Meter | | | | | |
| | Well | Depth (wd): | 151.5 | (ft) | Diamet | er (d): | 2.00 | (in) | |
| | Depth to \ | Water (dw): | 66.15 | (ft) | Diamete | er (d): | 0.167 | (ft) | |
| | | We | ell Volum | e = (5.904 : | x d ² (wd-c | = ((wb | 14.00 | (gallons) | |
| | | Flow Rate: | | (ml/min) | Purg | e Vol: | 0.0 | (gallons) | |
| | Length of Ti | me Purged: | | (minutes) | Purge | Time: | | | |
| | Amo | unt Purged: | 2.5 | (gallons) | Pump D | epth: | | | |

4. FIELD PARAMETERS

| INSTRUMENT | CALIBRATED |
|----------------------|------------|
| pH Meter – | |
| Conductivity Meter – | |
| Temperature – | |
| Turbidity Meter – | |
| DO Meter – | |
| ORP Meter – | |
| CO ₂ – | |

| Time | 1723 | 1725 | 1727 | 1729 | 1731 | |
|-------------------|-------|-------|-------|-------|-------|--|
| Temp. °C | 9 | 9 | 9 | 9.1 | 9 | |
| DO (mg/L) | 2.64 | 2.66 | 2.66 | 2.66 | 2.68 | |
| Sp. Cond. (mS/cm) | 0.429 | 0.411 | 0.429 | 0.415 | 0.26 | |
| рН | 7.9 | 7.9 | 7.9 | 7.9 | 7.9 | |
| ORP (mV) | -26.3 | -26 | -24.3 | -23.3 | -22.1 | |
| Turb. (NTU) | 14.2 | 11.9 | 10.4 | 10.1 | | |
| Water Level | 66.15 | - | - | - | - | |



GROUNDWATER FIELD DATA LOG

1. CLIENT: Ft. Drum **DATE:** 13-Apr-2016

SAMPLED BY: S. Forbes TIME: 1351

WEATHER CONDITIONS: 50F light breeze, clear

| Location: Ft. Drum | | | | | Samp | le ID: MV | V-18D-Apr-2 | 016 |
|----------------------------------|--------------|-----------------------|------------|--------------|-----------------------------|-----------|-------------|-----|
| PRESERVAT | TIVE: | HCL | | | | | | |
| ANALYSES REQUESTED: 8260B MS/MSD | | | | | | | | |
| # OF CONT. | | _ | | | | 6 | _ | |
| SAMPLING | METHOD: | | altic Pump | | / FLOW: | YES | ∐NO | |
| | | | er Pump | DUP | LICATE SAMPL | E: LYES | ⊠NO | |
| SAMPLES F | ILTERED: | YES | ⊠no | | | | | |
| | | MENT: Elect ION DATA | ronic Wat | er Meter | | | | |
| | Well | Depth (wd): | 174 | (ft) | Diameter (d) | 2.00 | (in) | |
| | Depth to \ | Water (dw): | 64.75 | (ft) | Diameter (d) | 0.167 | (ft) | |
| | | We | ell Volum | e = (5.904 x | x d ² (wd-dw)) = | 17.92 | (gallons) | |
| | | Flow Rate: | | (ml/min) | Purge Vol | 0.0 | (gallons) | |
| | Length of Ti | me Purged: | 55 | (minutes) | Purge Time | : 1415 | | |
| | Amo | unt Purged: | 1.5 | (gallons) | Pump Depth | : | | |

4. FIELD PARAMETERS

| INSTRUMENT | CALIBRATED |
|----------------------|------------|
| pH Meter – | |
| Conductivity Meter – | |
| Temperature – | |
| Turbidity Meter – | |
| DO Meter – | |
| ORP Meter – | |
| CO ₂ – | |

| Time | 1404 | 1406 | 1408 | 1410 | 1412 |
|-------------------|-------|-------|-------|-------|-------|
| Temp. °C | 7.7 | 7.7 | 7.8 | 7.9 | 8 |
| DO (mg/L) | 10.65 | 10.66 | 10.66 | 10.42 | 10.63 |
| Sp. Cond. (mS/cm) | 1.94 | 1.93 | 1.94 | 1.94 | 1.94 |
| рН | 7.4 | 7.4 | 7.42 | 7.41 | 7.44 |
| ORP (mV) | 116.4 | 114.4 | 110.1 | 107.1 | 103.9 |
| Turb. (NTU) | 106 | 40.0 | 38.55 | 40.0 | |
| Water Level | 64.75 | - | - | - | - |



GROUNDWATER FIELD DATA LOG

1. CLIENT: Ft. DrumDATE: 14-Apr-2016SAMPLED BY: S. ForbesTIME: 1155

WEATHER CONDITIONS: 40F light breeze, clear

| Location: Ft. Drum | | | | | S | Sample ID: MW-37-Apr-2016 | | | .6 |
|---------------------------|--------------|----------------|----------------|--------------|------------------------|---------------------------|-----------------|-----------|----|
| PRESERVAT | IVE: | HCL | | | | | | | |
| ANALYSES REQUESTED: 8260B | | | | | | | | | |
| # OF CONTA | AINERS: | | | | | | | | |
| SAMPLING I | METHOD: | Perista | ltic Pump | LOW | V FLOW: | | \boxtimes YES | □NO | |
| | | <u>⊠Bladde</u> | <u>er Pump</u> | DUP | LICATE SA | MPLE | : YES | ⊠no | |
| SAMPLES FI | LTERED: | YES [| \boxtimes NO | | | | | | |
| | | MENT: Electi | onic wat | ei ivietei | | | | | |
| | Well | Depth (wd): | 174.5 | (ft) | Diamete | r (d): | 2.00 | (in) | |
| | Depth to \ | Water (dw): | 61.97 | (ft) | Diamete | r (d): | 0.167 | (ft) | |
| | | We | ell Volum | e = (5.904 x | x d ² (wd-d | w)) = | 18.45 | (gallons) | |
| | | Flow Rate: | | (ml/min) | Purge | Vol: | 0.0 | (gallons) | |
| L | Length of Ti | me Purged: | | (minutes) | Purge 1 | īme: | | | |
| | Amo | unt Purged: | 1.5 | (gallons) | Pump De | epth: | | | |

4. FIELD PARAMETERS

| INSTRUMENT | CALIBRATED |
|----------------------|------------|
| pH Meter – | |
| Conductivity Meter – | |
| Temperature – | |
| Turbidity Meter – | |
| DO Meter – | |
| ORP Meter – | |
| CO ₂ - | |

| Time | 11:18:20 | 11:20:20 | 11:22:20 | 11:24:20 | 11:26:20 | 11:28:20 |
|-------------------|----------|----------|----------|----------|----------|----------|
| Temp. °C | 9.5 | 9.6 | 9.6 | 9.8 | 9.8 | 9.9 |
| DO (mg/L) | 12.2 | 11.1 | 10.5 | 10.3 | 10.2 | 10.3 |
| Sp. Cond. (mS/cm) | .299 | .309 | .295 | .294 | .303 | .307 |
| рН | 7.83 | 7.78 | 7.77 | 7.76 | 7.77 | 7.76 |
| ORP (mV) | 66.4 | 66.7 | 64.8 | 63.3 | 60.5 | 59.1 |
| Turb. (NTU) | | | | | | |
| Water Level | 7.58 | 5.0 | | | | |



GROUNDWATER FIELD DATA LOG

1. CLIENT: Ft. Drum **DATE:** 13-Apr-2016

SAMPLED BY: S. Forbes TIME: 9:19

WEATHER CONDITIONS: 45F light breeze, clear

| Location | Ft. Drum | | | | Sa | mple ID: C | BS-1-Apr-2010 | 5 |
|------------|----------------|--------------|------------|--------------|------------|------------|---------------|---|
| PRESERVAT | ·IVE• | HCL | | | | | | |
| _ | REQUESTED | | | | | | | |
| # OF CONTA | • | . 82006 | | | | | | |
| SAMPLING | | Perista | ıltic Pump | IOW | / FLOW: | ΣIΥ | es 🗆 no | |
| JAMI EMO | W.E.T.1.05. | | er Pump | | LICATE SAN | | | |
| SAMPLES F | ILTERED: | | ⊠no | 501 | 2.0, 2 3, | | -5 20 | |
| | | | | | | | | |
| 2. WATE | R LEVEL D | ATA | | | | | | |
| MEASURING | G POINT: | ⊠Top of | casing [| Other: | | | | |
| METHOD O | F MEASUREI | MENT: Electi | ronic Wate | er Meter | | | | |
| | | | | | | | | |
| 3. WELL | EVACUAT | ION DATA | | | | | | |
| | Well | Depth (wd): | 48 | (ft) | Diameter | (d): 2.0 | 00 (in) | |
| | Depth to \ | Water (dw): | 41.63 | (ft) | Diameter | (d): 0.1 | 67 (ft) | |
| | | We | ell Volum | e = (5.904 x | x d²(wd-dw | /)) = 1.0 | 04 (gallons) | |
| | | Flow Rate: | | (ml/min) | Purge ' | Vol: C | .0 (gallons) | |
| | Length of Ti | me Purged: | 53 | (minutes) | Purge Ti | me: | | |
| | Amo | unt Purged: | 4.5 | (gallons) | Pump De | oth: | 16 | |

4. FIELD PARAMETERS

| INSTRUMENT | CALIBRATED |
|----------------------|------------|
| pH Meter – | |
| Conductivity Meter – | |
| Temperature – | |
| Turbidity Meter – | |
| DO Meter – | |
| ORP Meter – | |
| CO ₂ – | |

| Time | 1008 | 1010 | 1012 | 1014 | 1016 | |
|-------------------|-------|-------|-------|-------|-------|--|
| Temp. °C | 9.2 | 9.2 | 9.3 | 9.2 | 9.2 | |
| DO (mg/L) | 10.27 | 10.17 | 10.22 | 10.16 | 10.28 | |
| Sp. Cond. (mS/cm) | 0.076 | 0.076 | 0.076 | 0.076 | 0.076 | |
| рН | 7.26 | 7.2 | 7.2 | 7.17 | 7.17 | |
| ORP (mV) | 122.5 | 123.7 | 121.7 | 121.6 | 120.0 | |
| Turb. (NTU) | 8.84 | | 7.84 | | 8.18 | |
| Water Level | 41.64 | 41.64 | 41.64 | 41.64 | 41.64 | |

5. Notes: Sample t= 10:20



GROUNDWATER FIELD DATA LOG

1. CLIENT: Ft. Drum

SAMPLED BY: S. Forbes

DATE: 14-Apr-2016
TIME: 1000

WEATHER CONDITIONS: 40F light breeze, clear

| Location | : Ft. Drum | | | | Sar | Sample ID: W9MW-04-Apr-2016 | | | | |
|----------|----------------------|---------------------------------|----------------|-----------|-------------|-----------------------------|-----------|--|--|--|
| RESERVAT | ΓΙVΕ: | HCL | | | | | | | | |
| NALYSES | REQUESTED: | 8260B | | | | | | | | |
| OF CONT | AINERS: | | | | | | | | | |
| AMPLING | METHOD: | <u>Perista</u> | / FLOW: | ∑YES | □NO | | | | | |
| | | | <u>er Pump</u> | DUP | LICATE SAM | PLE: YES | ⊠no | | | |
| AMPLES F | ILTERED: | YES [| ⊠no | | | | | | | |
| | | MENT: Electi | ronic Wate | er Meter | | | | | | |
| | Well | Depth (wd): | 164.05 | (ft) | Diameter (| d): 2.00 | (in) | | | |
| | Depth to \ | Nater (dw): | 59.69 | (ft) | Diameter (| d): 0.167 | (ft) | | | |
| | Well Volume = (5.904 | | | | k d²(wd-dw) |) = 17.12 | (gallons) | | | |
| | | Flow Rate: | | (ml/min) | Purge V | ol: 0.0 | (gallons) | | | |
| | Length of Ti | ength of Time Purged: (minutes) | | | | ne: 1007 | | | | |
| | Amo | unt Purged: | 4 | (gallons) | Pump Dep | th: 159 | | | | |

4. FIELD PARAMETERS

| INSTRUMENT | CALIBRATED |
|----------------------|-------------|
| pH Meter – | \boxtimes |
| Conductivity Meter – | |
| Temperature – | |
| Turbidity Meter – | |
| DO Meter – | |
| ORP Meter – | |
| CO ₂ - | |

| Time | 1043 | 1045 | 1047 | 1049 | 1051 |
|-------------------|-------|-------|-------|-------|-------|
| Temp. °C | 9 | 9.1 | 8.9 | 8.8 | 9.4 |
| DO (mg/L) | 4.58 | 4.67 | 4.72 | 4.71 | 4.37 |
| Sp. Cond. (mS/cm) | 0.233 | 0.217 | 0.218 | 0.214 | 0.239 |
| рН | 8.28 | 8.3 | 8.33 | 8.28 | 8.27 |
| ORP (mV) | 60.2 | 58.9 | 57.8 | 60.4 | 61.5 |
| Turb. (NTU) | 27.98 | 28.29 | 23.9 | 22.19 | 20.8 |
| Water Level | 59.69 | - | - | - | - |



GROUNDWATER FIELD DATA LOG

1. CLIENT: Ft. Drum **DATE:** 14-Apr-2016

SAMPLED BY: S. Forbes TIME: 818

WEATHER CONDITIONS: 40F light breeze, clear

| Location | : Ft. Drum | | | | Samp 2016 | ole ID: W9 | SentinelWell-A |
|-------------|----------------|-----------------|-----------------------|--------------|-----------------------------|-----------------|----------------|
| | REQUESTED: | HCL : _8260B | | | _ | | |
| OF CONTAINS | METHOD: | | ıltic Pump er Pump | | V FLOW: PLICATE SAMPL | ⊠YES E: □YES | = |
| SAMPLES F | ILTERED: | YES [| ⊠NO | | | | |
| . WATE | R LEVEL D | ATA | | | | | |
| /IEASURIN | G POINT: | oxtimeTop of | casing [| Other: | | | |
| VETHOD O | F MEASURE | MENT: Electi | ronic Wate | er Meter | | | |
| | | | | | | | |
| 3. WELL | EVACUAT | ION DATA | | | | | |
| | Well | Depth (wd): | 174 | (ft) | Diameter (d) | : 2.00 | (in) |
| | Depth to \ | Nater (dw): | 59.7 | (ft) | Diameter (d) | : 0.167 | (ft) |
| | | We | ell Volum | e = (5.904 : | x d ² (wd-dw)) = | 18.75 | (gallons) |
| | | Flow Rate: | | (ml/min) | Purge Vol | : 0.0 | (gallons) |

4. FIELD PARAMETERS

Length of Time Purged:

Amount Purged:

| INSTRUMENT | CALIBRATED |
|----------------------|-------------|
| pH Meter – | |
| Conductivity Meter – | \boxtimes |
| Temperature – | \boxtimes |
| Turbidity Meter – | |
| DO Meter – | \boxtimes |
| ORP Meter – | \boxtimes |
| CO ₂ – | |

(minutes)

Purge Time:

(gallons) Pump Depth:

830

100

| Time | 910 | 912 | 914 | 916 | 918 | |
|-------------------|-------|-------|-------|-------|-------|--|
| Temp. °C | 9.3 | 9.0 | 9.1 | 9.1 | 9.2 | |
| DO (mg/L) | .71 | .72 | .72 | .75 | .60 | |
| Sp. Cond. (mS/cm) | .373 | .350 | .360 | .370 | .356 | |
| рН | 10.99 | 10.97 | 10.94 | 10.99 | 10.98 | |
| ORP (mV) | 37.3 | 36.3 | 34.3 | 31.0 | 26.8 | |
| Turb. (NTU) | 4.18 | 3.49 | 2.34 | | | |
| Water Level | | | | | | |



GROUNDWATER FIELD DATA LOG

1. CLIENT: USACE **DATE:** 12-April-2016 **SAMPLED BY:** Forbes TIME: 1120 WEATHER CONDITIONS: windy 40F, cloudy Location: Ft. Drum, NY Sample ID: Well 14 PRESERVATIVE: ANALYSES REQUESTED: NY Part 5 and PFC # OF CONTAINERS: **SAMPLING METHOD:** Peristaltic Pump YES NO LOW FLOW: Bladder Pump DUPLICATE SAMPLE: YES NO TYES NO **SAMPLES FILTERED:** 2. WATER LEVEL DATA MEASURING POINT: Top of casing Other: METHOD OF MEASUREMENT: Not measured 3. WELL EVACUATION DATA Well Depth (wd): 248 (ft) Diameter (d): 8.00 (in) Depth to Water (dw): 50 (ft) Diameter (d): 0.667 (ft) 519.55 (gallons) Well Volume = $(5.904 \times d^2(wd-dw)) =$ Flow Rate: (ml/min) Purge Vol: 0.0 (gallons) Length of Time Purged: (minutes) Purge Time: Amount Purged: 1600 (gallons) Pump Depth: 4. FIELD PARAMETERS **INSTRUMENT CALIBRATED** pH Meter -Conductivity Meter -Temperature -X Turbidity Meter -X DO Meter -ORP Meter -CO₂ – Time 1220 Temp. °C 9.5 DO (mg/L) 3.22 Sp. Cond. (mS/cm) 0.151 рΗ 6.38 ORP (mV) 168.1 Turb. (NTU) 0.94 **Water Level** NA

5. Notes: Well flushed through hydrant, used installed pump to purge well volume. Sample t = 1220



GROUNDWATER FIELD DATA LOG

1. CLIENT: USACE **DATE:** 13-April-2016 TIME: 0900 **SAMPLED BY:** Forbes WEATHER CONDITIONS: light breeze 40F, clearf Location: Ft. Drum, NY Sample ID: Well 15 PRESERVATIVE: ANALYSES REQUESTED: NY Part 5 and PFC # OF CONTAINERS: **SAMPLING METHOD:** Peristaltic Pump YES NO LOW FLOW: Bladder Pump DUPLICATE SAMPLE: YES NO TYES NO **SAMPLES FILTERED:** 2. WATER LEVEL DATA MEASURING POINT: Top of casing Other: METHOD OF MEASUREMENT: Not measured 3. WELL EVACUATION DATA Well Depth (wd): 250 (ft) Diameter (d): 8.00 (in) Depth to Water (dw): 50 (ft) Diameter (d): 0.667 (ft) 524.80 (gallons) Well Volume = $(5.904 \times d^2(wd-dw)) =$ Flow Rate: (ml/min) Purge Vol: 0.0 (gallons) Length of Time Purged: 35 (minutes) Purge Time: Amount Purged: 1600 (gallons) Pump Depth: 4. FIELD PARAMETERS **INSTRUMENT CALIBRATED** pH Meter -Conductivity Meter -Temperature -X Turbidity Meter -X DO Meter -ORP Meter -CO₂ – Time 0940 Temp. °C 9.6 DO (mg/L) 29.5 Sp. Cond. (mS/cm) 0.193 рΗ 8.55 ORP (mV) 110.5 Turb. (NTU) 0.50 **Water Level** NA

5. Notes: Well flushed through hydrant, used installed pump to purge well volume. Sample t = 0940



GROUNDWATER FIELD DATA LOG

| 1. CLIENT: SAMPLEI WEATHE | D BY: Fo | DATE: 13-April-2016 TIME: 1020 | | | | | | | | | |
|--|---|--|--------------|---------------------|----------------------|--------------|-----------|-------------|----------|-------------|------|
| Location: F | t. Drum | , NY | | | | Sampl | e ID: We | II 13 | | | |
| PRESERVATIVE ANALYSES REC # OF CONTAIN SAMPLING MI SAMPLES FILT 2. WATER MEASURING PROMETHOD OF N | QUESTED IERS: ETHOD: ERED: LEVEL [POINT: | Perista Bladde YES OATA Top of | | LOV | / FLOW: | : SAMPLE: | = | ⊠n □n | | | |
| 3. WELL EV | /ACUAT | ION DATA | | | | | | | | _ | |
| Well | | Depth (wd): | 249 | (ft) | Diameter (d): | | 8.00 (in) | | | | |
| D | Depth to Water (dw): | | 50 | (ft) | Diameter (d): | | 0.667 | 7 (ft) | | | |
| We | | ell Volum | e = (5.904 : | x d²(wd | d-dw)) = 522.18 (gal | | | lons) | 1 | | |
| | Flow Rate: | | | (ml/min) Purge Vol: | | ge Vol: | 0.0 | 0 (gallons) | | | |
| Ler | ngth of T | ime Purged: | 30 | (minutes) | Purge Time: | | | | | | |
| | Amo | unt Purged: | 1600 | (gallons) | Pump | Depth: | | | | | |
| 4. FIELD PA | ARAME | TERS | | | | | | | | | |
| | | | INSTRUN | /IENT | | | | | CAI | IBR/ | ATED |
| pH Meter – | | | | | | | | | | \boxtimes | |
| Conductivity | Meter – | | | | | | | | | \boxtimes | |
| Temperature | <u> </u> | | | | | | | | | \boxtimes | |
| Turbidity Me | eter – | | | | | | | | | | |
| DO Meter – | | | | | | | | | | | |
| ORP Meter – | • | | | | | | | | | | |
| CO ₂ – | | | | | | | | | | | |
| | 1 | 4055 | | | | | | | <u> </u> | | |
| Time Temp. ' | | 1055 | | | | | | | | | |
| DO (mg/ | | 10.5 | | | | | | | + | | |
| Sp. Cond. (m | | 0.166 | | | | | | | + | | |
| pH | ,, | 7.5 | | | | | | | + | | |
| • | ORP (mV) 26.8 | | | | | | | | + | | |
| Turb. (N | | 0.49 | | | | | | | | | |
| • | Water Level NA | | | | | | | | + | | |
| | - | | 1 | 1 | | 1 | | | 1 | | |

5. Notes: Well flushed through hydrant, used installed pump to purge well volume. Sample t=1055



GROUNDWATER FIELD DATA LOG

| | .ED BY: Fo HER COND | DATE : 13-April-2016 TIME : 1112 | | | | | | | | |
|--|---|---|--|------------------------|---------------|-------------------|----------------|-------|-----|--------|
| Location: | Ft. Drum, | , NY | | | | Sample | e ID: We | ll 17 | | |
| PRESERVATION ANALYSES RESERVATION OF CONTAGE AMPLING FOR AMPLES FILL OF THE PRESERVATE OF THE PRESERVA | REQUESTED NINERS: METHOD: LTERED: | Perista Bladde YES | : 5 and PFO Iltic Pump er Pump NO | LOW | / FLOW: | SAMPLE: | □YES : □YES | = | 0 | |
| лeasuring летнор of | _ | ☐Top of MENT: Not n | | Other: | | | | | | |
| 3. WELL I | EVACUAT | ION DATA | | | | | | | | |
| | Well Depth (w | | 215.5 | (ft) | Diame | ter (d): | 8.00 | (in) | | |
| | Depth to Water (dw): | | 50 | (ft) | Diameter (d): | | 0.667 | | | |
| | | | e = (5.904) | | | | (gallons) | | | |
| Flow Rate: | | | (ml/min) | | ge Vol: | | (gallons) | | | |
| Length of Time Purged: | | | | - | | | | - | | 1 |
| L | ength of Ti | ime Purged: | 30 | (minutes) | Purge | e Time: | | | | |
| L | | me Purged: unt Purged: | | (minutes) (gallons) | _ | e Time: Depth: | | | | |
| | | unt Purged: | 1600 | (gallons) | _ | | | | | |
| i. FIELD I | Amo | unt Purged: | | (gallons) | _ | | | | CAL | IBRATE |
| J. FIELD I | Amo PARAMET | unt Purged: | 1600 | (gallons) | _ | | | | CAL | IBRATE |
| pH Meter - Conductivi | Amo PARAMET - ty Meter – | unt Purged: | 1600 | (gallons) | _ | | | | CAL | IBRATE |
| pH Meter - Conductivi Temperatu | Amo PARAMET ty Meter – | unt Purged: | 1600 | (gallons) | _ | | | | CAL | |
| pH Meter - Conductivi | Amo PARAMET ty Meter – ure – Meter – | unt Purged: | 1600 | (gallons) | _ | | | | CAL | IBRATE |
| pH Meter- Conductivi Temperatu Turbidity N | Amo PARAMET ty Meter – ure – Meter – | unt Purged: | 1600 | (gallons) | _ | | | | CAL | |
| pH Meter - Conductivi Temperatu Turbidity N DO Meter - | Amo PARAMET ty Meter – ure – Meter – | unt Purged: | 1600 | (gallons) | _ | | | | CAL | |
| pH Meter - Conductivi Temperatu Turbidity M DO Meter - ORP Meter CO ₂ - | Amo PARAMET ty Meter – ure – Meter – - r – | unt Purged: | 1600 | (gallons) | _ | | | | CAL | |
| pH Meter - Conductivi Temperatu Turbidity N DO Meter - ORP Meter CO ₂ - | Amo PARAMET ty Meter – ure – Meter – - r – | TERS | 1600 | (gallons) | | | | | CAL | |
| pH Meter - Conductivi Temperatu Turbidity N DO Meter - ORP Meter CO ₂ - | Amo PARAMET ty Meter – ure – Meter – r – | TERS 11.7 | 1600 | (gallons) | | | | | CAL | |
| pH Meter - Conductivi Temperatu Turbidity N DO Meter - ORP Meter CO2 - Tim Temp DO (m | Amo PARAMET ty Meter – ure – Meter – r – ne o. °C ng/L) | 11.7 17.8 | 1600 | (gallons) | | | | | CAL | |
| pH Meter - Conductivi Temperatu Turbidity M DO Meter - ORP Meter CO ₂ - Tim Temp DO (m Sp. Cond. (| Amo PARAMET ty Meter – ure – Meter – r – ne o. °C ng/L) (mS/cm) | 11.7 17.8 0.156 | 1600 | (gallons) | | | | | CAL | |
| pH Meter - Conductivi Temperatu Turbidity N DO Meter - ORP Meter CO ₂ - Tim Temp DO (m Sp. Cond. (| Amo PARAMET ty Meter – ure – Meter – r – ne o. °C ng/L) (mS/cm) | 11.7 17.8 0.156 | 1600 | (gallons) | | | | | CAL | |
| pH Meter - Conductivi Temperatu Turbidity M DO Meter - ORP Meter CO ₂ - Tim Temp DO (m Sp. Cond. (| Amo PARAMET ty Meter – ure – Meter – r – ne b. °C ng/L) (mS/cm) H mV) | 11.7 17.8 0.156 | 1600 | (gallons) | | | | | CAL | |

5. Notes: Well flushed through hydrant, used installed pump to purge well volume. Sample t = not recorded in notes



GROUNDWATER FIELD DATA LOG

| 1. CLIENT: USACE SAMPLED BY: Forbes WEATHER CONDITIONS: windy 40F, cloudy | | | | | | DATE: 12-April-2016 TIME: 1018 | | | | | |
|---|--|--------------------------|---------|--------------|-----------------------|--|--------------|------------|----------|-------------------------|--|
| Location | : Ft. Drum | ı, NY | | | S | ample | e ID: We | II 18 | | | |
| # OF CONT SAMPLING SAMPLES F 2. WATI MEASURIN | REQUESTED AINERS: METHOD: FILTERED: ER LEVEL I G POINT: | Perista Bladde YES DATA | | LOV | V FLOW: PLICATE SA | MPLE: | □YES □YES | ⊠n | | | |
| | | | | | | | | | | | |
| 3. WELL EVACUA | | Depth (wd): | 240 | (f+) | Diamete | iameter (d): 8.00 | | (in) | | Ī | |
| | | Water (dw): | | (ft) | Diameter (d): | | 0.667 | - | | - | |
| | | | | e = (5.904 : | | · · · / | | (gallons) | | | |
| | Flow Ra | | | | | · · · · | | | gallons) | | |
| | Length of T | ime Purged: | | (minutes) | | | | (garrerre) | | 1 | |
| | | ount Purged: | 2000 | (gallons) | | | | | | | |
| 4. FIELD | PARAME | TERS | INSTRUN | ΛFNT | | | | | CAI | IBRATED | |
| pH Meter | ·_ | | | | | | | | CAL | | |
| • | vity Meter – | • | | | | | | | | | |
| Temperat | | | | | | | | | | | |
| Turbidity | Meter – | | | | | | | | | | |
| DO Meter | | | | | | | | | | | |
| ORP Mete | er – | | | | | | | | | $\underline{\boxtimes}$ | |
| CO ₂ – | | | | | | | | | | | |
| Ti | me | 1100 | | | | | | | | | |
| | ıp. °C | 9.6 | | | | | | | | | |
| DO (ı | mg/L) | 2.75 | | | | | | | | ·—- | |
| Sp. Cond. | (mS/cm) | 0.168 | | | | | | | | | |
| | Н | 6.7 | | | | | | | | | |
| | (mV) | 149.3 | | | | | | | | | |
| | (NTU) | 0.88 | | | | | | | | | |
| Wate | er Level NA | | | | | | | | | | |

5. Notes: Well flushed through hydrant, used installed pump to purge well volume. Sample $t=1100\,$





GROUNDWATER FIELD DATA LOG

1. CLIENT: USACE **DATE:** 21-Jun-2016

SAMPLED BY: Forbes and Nelson **TIME: 840**

WEATHER CONDITIONS: 60F Partly cloudy and calm

| Location | : Ft. Drum | Ny | | | S | Sample ID: OSL-MW08-July2016 | | | | |
|--|---------------------------------------|-------------|--------------------|-----------|---------|------------------------------|-----------|-----------|---|--|
| PRESERVA | TIVE: | Trisma | | | | | | | | |
| | REQUESTED: | | od 537 | | - | | | | | |
| # OF CONT | • | | | | | | - | | | |
| SAMPLING METHOD: Peristaltic Pump LOW FLOW: YES NO | | | | | | | | | | |
| | Bladder Pump DUPLICATE SAMPLE: YES NO | | | | | | | | | |
| SAMPLES I | FILTERED: | YES [| NO | | | | | | | |
| | IG POINT: OF MEASURE! L EVACUAT | MENT: Elect | casing [ronic Wate | _ | | | | | _ | |
| | Well | Depth (wd): | 51 | (ft) | Diamete | r (d): | 4.00 | (in) | | |
| | Depth to \ | Water (dw): | 33.77 | (ft) | Diamete | r (d): | 0.333 | (ft) | | |
| | | ell Volum | e = (5.904 : | x d²(wd-d | w)) = | 11.30 | (gallons) | | | |
| | | Flow Rate: | | (ml/min) | Purge | Vol: | 0.0 | (gallons) | | |
| | Length of Ti | me Purged: | | (minutes) | Purge 1 | ime: | | | 1 | |
| | Amoi | unt Purged: | 4 | (gallons) | Pump De | onth: | | | 1 | |

4. FIELD PARAMETERS

| INSTRUMENT | CALIBRATED |
|----------------------|-------------|
| pH Meter – | |
| Conductivity Meter – | |
| Temperature – | \boxtimes |
| Turbidity Meter – | \boxtimes |
| DO Meter – | |
| ORP Meter – | \boxtimes |
| CO ₂ - | |

| Time | 903 | 905 | 907 | 909 | 911 |
|-------------------|-------|-------|-------|-------|-------|
| Temp. °C | 12.8 | 12.7 | 12.9 | 12.7 | 12.9 |
| DO (mg/L) | 9.96 | 10.62 | 11.16 | 13.16 | 14.55 |
| Sp. Cond. (mS/cm) | 0.72 | 0.73 | 0.71 | 0.73 | 0.77 |
| рН | 7.47 | 7.52 | 7.48 | 7.52 | 7.48 |
| ORP (mV) | 212.7 | 210.8 | 212.1 | 210.4 | 212.4 |
| Turb. (NTU) | 0.26 | - | - | - | - |
| Water Level | 33.87 | - | - | - | - |

5. Notes: Sample t = 920

Active construction area for road work. Dust being kicked up and fill be dumped next to well.



GROUNDWATER FIELD DATA LOG

1. CLIENT: USACE DATE: 21-Jun-2016 SAMPLED BY: Forbes and Nelson TIME: 1110

WEATHER CONDITIONS: 85F Partly cloudy and breezy

| Location: | Ft. Drum | Ny | | | 9 | Sampl | e ID: OSI | MW10-Jul | y2016 |
|---------------|-------------|--------------------|---------------|--------------|------------------------|--------|-----------------|-----------|-------|
| PRESERVAT | IVE. | Trisma | | | | | | | |
| _ | | | 1.505 | | | _ | | | |
| ANALYSES R | • | : <u>Metho</u> | od 537 | | | | - | | |
| # OF CONTA | INERS: | _ | | | | | | _ | |
| SAMPLING I | METHOD: | Perista | Itic Pump | LOW | V FLOW: | | \boxtimes YES | ∐NO | |
| | | \boxtimes Bladde | <u>r Pump</u> | DUP | LICATE SA | MPLE | : YES | ⊠no | |
| SAMPLES FI | LTERED: | YES [| NO | | | | | | |
| | | | | | | | | | |
| 2. WATE | R LEVEL D | ATA | | | | | | | |
| MEASURING | | ⊠Top of | casing [| Other: | | | | | |
| | | MENT: Electi | | _ | | | | | |
| IVIL ITIOD OI | MILASONLI | VILIVI. LIECU | Offic Wate | ei ivietei | | | | | |
| | | | | | | | | | |
| 3. WELL | EVACUAT | ION DATA | | | | | | | |
| | Well | Depth (wd): | 66 | (ft) | Diamete | r (d): | 4.00 | (in) | |
| | Depth to \ | Nater (dw): | 50.12 | (ft) | Diamete | r (d): | 0.333 | (ft) | |
| | | We | ell Volum | e = (5.904 : | x d ² (wd-d | w)) = | 10.42 | (gallons) | |
| | | Flow Rate: | | (ml/min) | Purge | e Vol: | 0.0 | (gallons) | |
| I | ength of Ti | me Purged: | | (minutes) | Purge ' | Time: | | | |
| | Amo | unt Purged: | 5.754 | (gallons) | Pump D | epth: | | | |

4. FIELD PARAMETERS

| INSTRUMENT | CALIBRATED |
|----------------------|-------------|
| pH Meter – | |
| Conductivity Meter – | |
| Temperature – | \boxtimes |
| Turbidity Meter – | \boxtimes |
| DO Meter – | |
| ORP Meter – | \boxtimes |
| CO ₂ - | |

| Time | 1214 | 1219 | 1224 | 1229 | 1234 | 1239 |
|-------------------|-------|-------|------|------|------|------|
| Temp. °C | 12.6 | 12.7 | 11.8 | 11.9 | 11.7 | 11.8 |
| DO (mg/L) | 2.89 | 3.01 | 3.1 | 3.04 | 3.06 | 2.94 |
| Sp. Cond. (mS/cm) | 0.89 | 0.89 | 0.88 | 0.88 | 0.88 | 0.88 |
| рН | 7.14 | 7.15 | 7.21 | 7.20 | 7.22 | 7.21 |
| ORP (mV) | 116.8 | 93.2 | 82.5 | 70.6 | 60.8 | 58 |
| Turb. (NTU) | 68.55 | 19.60 | 11.0 | 11.1 | 8.0 | 9.7 |
| Water Level | 50.23 | - | - | - | - | |



GROUNDWATER FIELD DATA LOG

1. CLIENT: USACE DATE: 21-Jun-2016

SAMPLED BY: Forbes and Nelson **TIME: 950**

WEATHER CONDITIONS: 70F Partly cloudy and calm

| Location | Location: Ft. Drum Ny | | | | | | | Sample ID: OSL-MW10-July2016 | | |
|-----------------|-----------------------|--------------------|------------|--------------|-----------------------|---------|-----------------|------------------------------|---|--|
| PRESERVA | TIVE: | Trisma | | | | | | | | |
| ANALYSES | REQUESTED: | Meth | od 537 | N | /IS/MSD | | | | | |
| # OF CONT | AINERS: | | | | | | | | | |
| SAMPLING | METHOD: | Perista | altic Pump | LOV | V FLOW: | | \boxtimes YES | □NO | | |
| | | \boxtimes Bladde | er Pump | DUP | PLICATE S | AMPLE | : ⊠YES | □NO | | |
| SAMPLES I | ILTERED: | YES | NO | | | | | | | |
| | DF MEASUREN | MENT: Elect | | _ | | | | | _ | |
| | Well | Depth (wd): | 53.15 | (ft) | Diamet | er (d): | 4.00 | (in) | | |
| | Depth to \ | Vater (dw): | 42.21 | (ft) | Diamet | er (d): | 0.333 | (ft) | | |
| | | We | ell Volum | e = (5.904 : | x d ² (wd- | dw)) = | 7.18 | (gallons) | | |
| | | Flow Rate: | | (ml/min) | Purg | e Vol: | 0.0 | (gallons) | | |
| | Length of Ti | me Purged: | | (minutes) | Purge | Time: | | | | |
| | Amo | unt Purged: | 4.5 | (gallons) | Pump [| enth: | | | | |

4. FIELD PARAMETERS

| INSTRUMENT | CALIBRATED |
|----------------------|-------------|
| pH Meter – | \boxtimes |
| Conductivity Meter – | \boxtimes |
| Temperature – | \boxtimes |
| Turbidity Meter – | \boxtimes |
| DO Meter – | |
| ORP Meter – | \boxtimes |
| CO ₂ - | |

| Time | 1010 | 1015 | 1020 | 1025 | 1030 | 1035 |
|-------------------|-------|-------|-------|-------|-------|-------|
| Temp. °C | 15.5 | 15 | 15.2 | 14.6 | 14.9 | 15 |
| DO (mg/L) | 2.61 | 1.07 | 0.94 | 0.88 | 1.39 | 0.91 |
| Sp. Cond. (mS/cm) | | | | | | |
| рН | 7.32 | 7.32 | 7.33 | 7.38 | 7.31 | 7.36 |
| ORP (mV) | -26.1 | -46.3 | -56.4 | -63.4 | -74.5 | -74.1 |
| Turb. (NTU) | 23.28 | 11.87 | 8.97 | 7.08 | 6.2 | 4.63 |
| Water Level | 42.55 | - | - | - | - | |





GROUNDWATER FIELD DATA LOG

1. CLIENT: USACE DATE: 21-Jun-2016

SAMPLED BY: Forbes and Nelson **TIME: 1600**

WEATHER CONDITIONS: 88F Partly cloudy and windy

| Location | Location: Ft. Drum Ny | | | | | | e ID: ASL | -MW12A-J | ul y201 6 |
|----------------------|-----------------------|-------------------------|------------|--------------|------------|-------|-----------------|-----------|------------------|
| PRESERVA | TIVE: | Trisma | | | | | | | |
| ANALYSES | REQUESTED: | Metho | od 537 | | | | | | |
| # OF CONT | AINERS: | | | | | | | | |
| SAMPLING | METHOD: | Perista | altic Pump | LOW | V FLOW: | | \boxtimes YES | □NO | |
| | | <u>⊠Bladde</u> | er Pump | DUP | LICATE SAI | MPLE | : YES | oxtimeNO | |
| SAMPLES | FILTERED: | YES | NO | | | | | | |
| MEASURIN METHOD (| F MEASUREN | ⊠Top of MENT: Electi | | er Meter | | | | | 7 |
| | Well [| Depth (wd): | 78 | (ft) | Diameter | (d): | 4.00 | (in) | |
| | Depth to V | Vater (dw): | 65.5 | (ft) | Diameter | (d): | 0.333 | (ft) | |
| | | We | ell Volum | e = (5.904 x | x d²(wd-dv | v)) = | 8.20 | (gallons) | |
| | | Flow Rate: | | (ml/min) | Purge | Vol: | 0.0 | (gallons) | |
| | Length of Ti | me Purged: | | (minutes) | Purge T | ime: | | | |
| | Amou | unt Purged: | 3.5 | (gallons) | Pump De | pth: | | | 1 |

4. FIELD PARAMETERS

| INSTRUMENT | CALIBRATED |
|----------------------|-------------|
| pH Meter – | |
| Conductivity Meter – | |
| Temperature – | \boxtimes |
| Turbidity Meter – | \boxtimes |
| DO Meter – | |
| ORP Meter – | \boxtimes |
| CO ₂ - | |

| Time | 1608 | 1613 | 1618 | 1623 | 1628 | |
|-------------------|-------|-------|-------|-------|-------|---|
| Temp. °C | 31.4 | 14.4 | 14.3 | 13.9 | 14.2 | |
| DO (mg/L) | 6.39 | 11.06 | 11.13 | 11.23 | 11.17 | |
| Sp. Cond. (mS/cm) | .01 | 1.3 | 1.29 | 1.27 | 1.28 | |
| рН | 7.45 | 7.48 | 7.54 | 7.58 | 7.65 | |
| ORP (mV) | 217.7 | 226.8 | 213.3 | 203.7 | 194.4 | |
| Turb. (NTU) | 13.94 | 6.79 | 3.26 | 1.76 | 2.16 | |
| Water Level | 63.44 | - | - | - | - | - |



GROUNDWATER FIELD DATA LOG

1. CLIENT: USACE DATE: 21-Jun-2016

SAMPLED BY: Forbes and Nelson **TIME: 1440**

WEATHER CONDITIONS: 88F Partly cloudy and windy

| Location | Location: Ft. Drum Ny | | | | | | | Sample ID: ASL-MW961-July2016 | | | |
|-----------|-----------------------|---------------|----------------|--------------|------------|-------|--------------|-------------------------------|--|--|--|
| PRESERVA | TIVE: | Trisma | | | | | | | | | |
| ANALYSES | REQUESTED: | : <u>Meth</u> | od 537 | | | | | | | | |
| # OF CONT | AINERS: | | | | | | | | | | |
| SAMPLING | METHOD: | Perista | Iltic Pump | LOW | / FLOW: | | ∑ YES | NO | | | |
| | | | <u>er Pump</u> | DUP | LICATE SAI | MPLE: | YES | ⊠NO | | | |
| SAMPLES I | FILTERED: | YES | NO | | | | | | | | |
| | OF MEASUREN | | ronic Wat | er Meter | | | | | | | |
| | Well | Depth (wd): | 75 | (ft) | Diameter | (d): | 4.00 | (in) | | | |
| | Depth to V | Water (dw): | 63.28 | (ft) | Diameter | (d): | 0.333 | (ft) | | | |
| | | We | ell Volum | e = (5.904 x | x d²(wd-dv | v)) = | 7.69 | (gallons) | | | |
| | | Flow Rate: | | (ml/min) | Purge | Vol: | 0.0 | (gallons) | | | |
| | Length of Ti | me Purged: | | (minutes) | Purge T | ime: | | | | | |
| | Amou | unt Purged: | 2 | (gallons) | Pump De | pth: | | | | | |

4. FIELD PARAMETERS

| INSTRUMENT | CALIBRATED |
|----------------------|-------------|
| pH Meter – | |
| Conductivity Meter – | |
| Temperature – | \boxtimes |
| Turbidity Meter – | \boxtimes |
| DO Meter – | |
| ORP Meter – | \boxtimes |
| CO ₂ - | |

| Time | 1445 | 1450 | 1455 | 1500 | 1505 | 1510 |
|-------------------|-------|-------|-------|-------|-------|-------|
| Temp. °C | 25.5 | 21.3 | 19.3 | 18.9 | 20.3 | 20 |
| DO (mg/L) | 6.28 | 11.39 | 6.24 | 6.25 | 6.54 | 6.28 |
| Sp. Cond. (mS/cm) | 0.01 | 0.67 | 0.65 | 0.65 | 0.68 | 0.67 |
| рН | 8.3 | 7.1 | 6.5 | 6.5 | 6.7 | 6.6 |
| ORP (mV) | 92 | 229.6 | 228.5 | 219.3 | 206.6 | 205.9 |
| Turb. (NTU) | 1.09 | 1.69 | 1.14 | | | |
| Water Level | 63.44 | - | - | - | - | - |



GROUNDWATER FIELD DATA LOG

1. CLIENT: USACE DATE: 21-Jun-2016

SAMPLED BY: Forbes and Nelson TIME: 1335

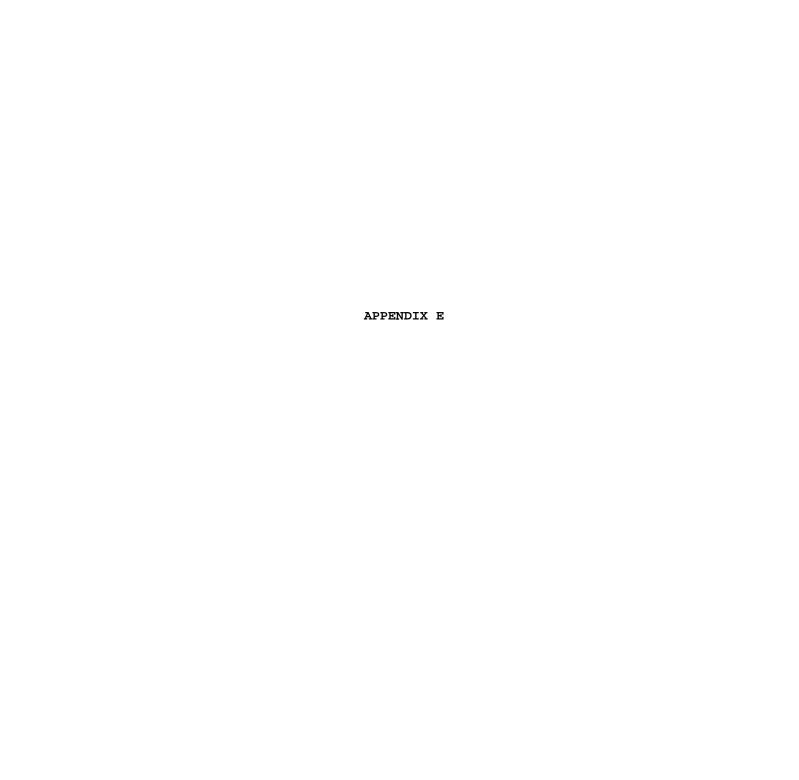
WEATHER CONDITIONS: 85F Partly cloudy and windy

| Location | : Ft. Drum I | Ny | Sa | Sample ID: ASL-MW961-July2016 | | | | |
|-----------|----------------------|----------------|----------------------------------|-------------------------------|------------|------------|-----------|--|
| PRESERVA | TIVE: | Trisma | | | | | | |
| ANALYSES | REQUESTED: | Metho | od 537 | | | | | |
| # OF CONT | AINERS: | | | | | | | |
| SAMPLING | METHOD: | Perista | Peristaltic Pump LOW FLOW: | | | | □NO | |
| | | <u>⊠Bladde</u> | er Pump | DUP | LICATE SAM | IPLE: YES | oxtimeNO | |
| SAMPLES I | FILTERED: | YES [| NO | | | | | |
| | OF MEASUREN | | ronic Wat | er Meter | | | | |
| | Well Depth (wd): | | 86.6 | (ft) | Diameter | (d): 4.00 | (in) | |
| | Depth to Water (dw): | | 74.31 | (ft) | Diameter | (d): 0.333 | (ft) | |
| | | We | $= (5.904 \times d^2 (wd-dw)) =$ | | |)) = 8.06 | (gallons) | |
| | | Flow Rate: | | (ml/min) | Purge \ | /ol: 0.0 | (gallons) | |
| | Length of Ti | me Purged: | | (minutes) | Purge Ti | me: | | |
| | Amou | int Piirged: | 2.5 | (gallons) | Pumn Der | th: | | |

4. FIELD PARAMETERS

| INSTRUMENT | CALIBRATED |
|----------------------|------------|
| pH Meter – | |
| Conductivity Meter – | |
| Temperature – | |
| Turbidity Meter – | |
| DO Meter – | |
| ORP Meter – | |
| CO ₂ - | |

| Time | 1353 | 1358 | 1403 | 1408 | 1413 | 1418 |
|-------------------|-------|-------|-------|-------|-------|------|
| Temp. °C | 14.4 | 13,9 | 14 | 13.7 | 14 | 13.7 |
| DO (mg/L) | 9.36 | 9.14 | 9.03 | 9.05 | 8.91 | 8.84 |
| Sp. Cond. (mS/cm) | 1.15 | 1.17 | 1.21 | 1.21 | 1.24 | 1.24 |
| рН | 7.51 | 7.63 | 7.71 | 7.78 | 7.79 | 7.81 |
| ORP (mV) | 99 | 112.6 | 116.4 | 117.7 | 120.8 | 122 |
| Turb. (NTU) | 4.39 | 3.45 | 12.99 | 2.60 | 2.43 | 3.55 |
| Water Level | 74.32 | - | - | - | - | - |





Class B Fire Suppression Foam Usage Survey Questions

If possible, please complete the fillable PDF survey available at:

http://www.dec.ny.gov/docs/remediation_hudson_pdf/survey2.pdf

Instructions: Please answer all questions with respect to the period of current ownership/operation. In the event information is available regarding prior owners or operators, include it in the responses.

Please return the completed survey (PDF file) via email to derweb@dec.ny.gov by **July 15, 2016**. Non-electronic responses must be mailed to the following address: Ted Bennett, NYSDEC, Division of Environmental Remediation, 625 Broadway (12th Floor), Albany, NY 12233-7012.

If you have any questions, contact Ted Bennett at (518) 402-9764 or by email at theodore.bennett@dec.ny.gov

| | email | at theodore.be | ennett@c | <u>lec.ny.g</u> | <u>ov</u> | | | |
|----|---------------------------------------|------------------------------------|------------|-----------------|----------------|-----------------|-----------|----------|
| 1. | . Facility Name: F | Fort Drum - Envir | onmental C | Compliand | e Branch | | | |
| 2. | . Facility Address | 3: 4896 Nininger | St | | | | | |
| | City/Town: For | rt Drum | | | | | | |
| | State: New York | | | | | | | |
| | Zip Code: 13602 | 2-5097 | | | | | | |
| 3. | . Period of Facilit | y Ownership: | 1940s to p | resent | | | | |
| 4. | . Period of Facilit | y Operation or | Control: | 1940s to | present | | | |
| 5. | . Identities of Pric Owner/Operato | | ers and (| Operato | rs (to the ext | tent available | to curre | nt |
| 3. | . Is any Class B f Facility? Y | <u> </u> | n foam c | urrently | stored and/o | or used at the | | |
| | If yes, please prosuppression for | am currently st | ored and/ | or used | , including: | of Class B fire |) | |
| | | of purchase: 20 facturer and ty | | | | n foam stored | 1. Nation | nal Foam |
| | | ity of Class B f | | | | | | |

d. % PFOS/A concentrate: Varies by product. See attached spreadsheet.

55 gallon drums, tanks, fire crash trucks

See attached spreadsheet of Class B foam inventory

e. Method of storage:

f. Other relevant information:

AFFF. 2 +

| 7. | Has any Class B fire suppression foam ever been stored and/or used at the Facility? Yes No Unknown | |
|----|---|-----|
| | If yes, please note: | |
| | a. Dates of storage: Last several decades | |
| | b. Manufacturer and type of Class B fire suppression foam stored: Multiple types and | |
| | c. Quantity of Class B fire suppression foam stored: Storage quantity's were less historia | |
| | d. % PFOS/A concentrate: unknown/various | |
| | e. Method of storage: Tanks, 55-gallon drums, emergency response vehicles | |
| | f. Other relevant information: Since 2011, six (6) aircraft hangers were converted from AFFF to | h |
| 8. | Has Class B fire suppression foam ever been used for training purposes at the Facility? Yes No Unknown If yes, please note: | |
| | a. Dates and frequency of training: Monthly functional tests at fire training pit plus periodic train | nir |
| | i. If exact information is not available, please provide an estimate: 1. 1-10 times over 10 years 2. 11-50 times over 10 years 3. 50 or more times over 10 years | |
| | b. Manufacturer and type of Class B fire suppression foam used in training: National Foam Aer-O-Water/Lite 3% and others | |
| | c. Quantity of Class B fire suppression foam used in training: Approximately 100 gallons | or |
| | d. Other relevant information: Used for fire fighting training certification | |
| 9. | Has Class B fire suppression foam ever been used for firefighting or other emergency response purposes at the Facility? Yes No Unknown If yes, please note: a. Date of emergency response: 2002 i. If exact information is not available, please provide an estimate: 1. 1-10 times over 10 years 2. 11-50 times over 10 years 3. 50 or more times over 10 years | |
| | b. Manufacturer and type of Class B fire suppression foam used in firefighting or emergency response: National Foam or Ansul AFFF 3% | |
| | c. Quantity of Class B fire suppression foam used in firefighting and | |
| | emergency response: 400 gallons or 3340 lbs | |
| | d. Other relevant information: Used to extinguish rubber backdrop on firing Range 8 | |

| 10. Has the Facility ever experienced a spill or leak of Class B fire suppression |
|---|
| foam? Yes No Unknown |
| If yes, please note: a. Date of spill/leak: 1987-present; exact dates unknown |
| i. If exact information is not available, please provide an estimate: |
| 1. 1-10 times over 10 years 💽 |
| 2. 11-50 times over 10 years |
| 3. 50 or more times over 10 years 🔾 |
| b. Manufacturer and type of Class B fire suppression foam spilled/leaked: SEE 10.d. |
| c. Quantity of Class B fire suppression foam spilled/leaked: SEE 10.d. |
| d. Other relevant information: National Foam Aer-O-Water/Lite 3% unknown quantity of drips in |
| 11. Has your Facility ever been responsible for the use of Class B fire suppression foam at a location other than the Facility (i.e. offsite training, emergency response, or spill)? Yes No Unknown |
| If yes, please note: |
| a. Date of each offsite use: 5/11/2001 and 7/30/2012 |
| i. If exact information is not available, please provide an estimate: |
| 1. 1-10 times over 10 years 💽 |
| 2. 11-50 times over 10 years |
| 3. 50 or more times over 10 years |
| b. Manufacturer and type of Class National Foam or Ansul AFFF 3% B fire suppression foam used: |
| c. Quantity of Class B fire suppression foam: 2001-800 gals, 2012-10 gals |
| d. Other relevant information: |
| 2001 - tractor trailer rollover (Rt 342/Rt11) 2012 - brake fire on Rt. 81 in Watertown |
| Upon completing the survey you must place an "√" in this box to certify |
| the following: |
| Certification. I certify that this document was prepared under my direction or |
| supervision in accordance with a system designed to assure that qualified personnel |
| properly gather and evaluate the information submitted. Based on my inquiry of the |
| person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge |
| and belief, true, accurate, and complete. |
| |
| |
| Name of person who completed and submitted responses to Survey (the legal owner, operator, or their representative authorized to complete and submit Survey) |
| BRYAN J. LASKEY, Garrison Commander |
| Name and Official Title |

4896 Nininger Street, Fort Drum NY 13602-5097

Address
(315) 772-5269

Telephone Number
james.m.miler352.civ@mail.mil

E-mail Address

Date Certified or Signed

Clear Form

10TH MTN DIV (LI) & FORT DRUM ROUTING SLIP For use of this form, see 10th Mtn Div & Fort Drum Pam 5-1. The proponent is the SGS. SUBJECT: OFFICE: POC / POC #: EMAIL: 11 July 2016 IMDR-PWE Class B Foam Survey for NYSDEC James Miller james.m.miller352.civ@mail.mil 772-5269 ACTION / TO: INFO **INITIAL / DATE** COMMENTS REMARKS: aSC 1. PURPOSE. To obtain the Garrison Commander's signature aCofS on the attached firefighting foam usage survey from the New aDCofS York State Department of Euvironmental Conservation aDCSM (NYSDEC). The survey was due to the NYSDEC by 15 July GC 6 2016 with a 30 day extension request granted on 7/13/2016. DGC 5 GCSM 2. BACKGROUND GXO a. In January 2016, New York State passed emergency SGS regulations adding perfluorooctanoic acid (PFOA) and G1 perfluorooctane sulfonic acid (PFOS) to the state's hazardous G2 substance list. PFOA/PFOS (PFOA/S) are ingredients in certain G3 firefighting foams. G4 G5 b. The five key aspects of the emergency regulation are: (i) **G6** registration of certain PFOA/S containing tanks; (ii) reporting of **G8** certain PFOA/S releases; (iii) replacement of certain PFOA/S G9 systems by April, 2017; (iv) the state-wide ban on the discharge DIV CHAP of all Class B foams for training regardless of PFOS DIV SURG concentration; and (v) soil and groundwater clean-up obligations EO FIRES where PFOA/S releases have occurred, IG c. Firefighting foams at Fort Drum are present in emergency KM response vehicles, in fixed fire suppression systems, and drum PAO storage areas. The Directorate of Public Works (DPW) evaluated **PMO** SAFETY each storage area (enclosure 1) for compliance with the SHARP emergency regulation. Based on the low PFOA/S concentrations 4 SJA present at all locations, the registration, reporting, and system HHBN replacement mandates of the regulation are not triggered. 1BCT d. The NYSDEC prohibition on the use of class B foams for 2BCT training purposes (as opposed to an actual emergency) will 3BCT DIVARTY adversely impact the Directorate of Emergency Services (DES). 10CAB Additionally, the ACSIM issued a policy directive prohibiting all 10SBDE non-emergency discharges of Aqueous Film Forming Foam 20ASOS (AFFF) effective 29 June 2016. The NYSDEC/ACSIM AFSBN directives are applicable to the AFFF foam currently used in CID DES Fire Fighting Vehicles. While it is not expected that one DENTAC time release of the AFFF type currently used by DES is likely to MEDDAC CPAC cause contamination, repeated application during training or 3 DES equipment testing (on or off post) could. DHR e. Legacy AFFF formulations used on FD are suspected to have DPTMS contained PFOA/S. The cost of studies and clean-up obligations DPW 2 due to PFOA/S contamination could reach several 100's of DRM EEO thousands of dollars or more. Ground water contamination FMWR exceeding health advisory (HA) levels continues to be detected INST CHAP in the aquifer near the fire training pit. IR LRC 3. RECOMMENDATION: Recommend that the Garrison MICC Commander sign the attached (enclosure 2) survey. NEC PAI PROTOCOL SGS ADMIN Kurt W. Hauk PW Secretary 1,7 Public Works Director

FORT DRUM FORM 408-E, DEC 2013

PREVIOUS EDITIONS ARE OBSOLETE.

Adobe LC

| GS LOG# | ! |
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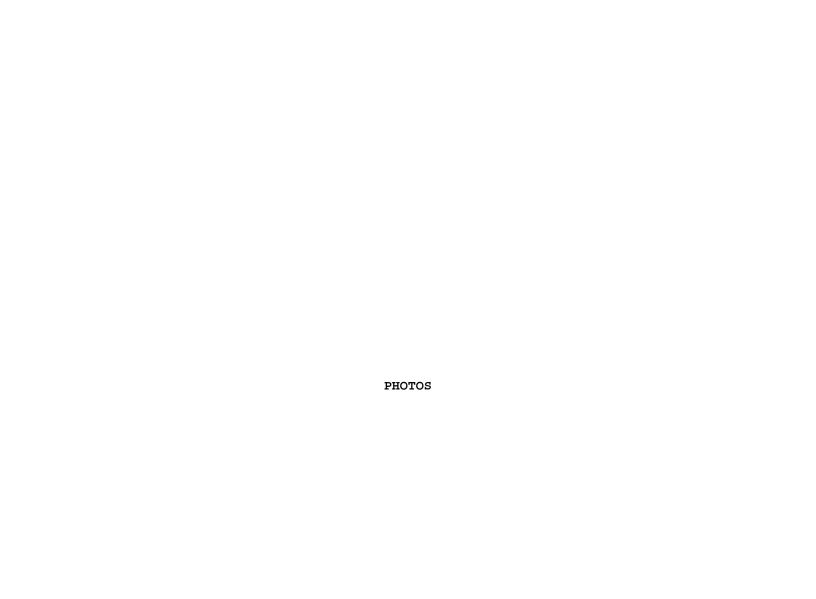






Figure 8 - Laundry Pad 1



Figure 9 - Laundry Pad 1 Looking Toward Leachate Field



Figure 10 - Laundry Pad 1 Sump



LAUNDRY PAD 2



Figure 11 - Laundry Pad 2



Figure 12 - Laundry Pad 2 Looking in from Leachate Field



Figure 13 - Laundry Pad 2 Sump



Figure 14 - Laundry Pad 3



Figure 15 - Laundry Pad 3 Looking in From Leachate Field



Figure 16 Laundry Pad 3 Sump 2 Center of Pad



Figure 17 - Laundry Pad 3 Sump 1



| DRILLING LOG Division Not Atlantic Division FROLDET 1 suffers 1 s | | | | I DIVIDIONI | 115.16 | OTALL ATION | | | | Hole | NO. S | | Drain | | | |
|--|--------------|---------|--|--|--|---------------|----------|--------------|-----------|--------|--------------|-----|--------|--|--|--|
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| MANUE OF PRILER | | | | | CME-55 Yellow, continuous flight hollow-stem auger | | | | | | | | | | | |
| JUSTIN Blackson | | | | District | 13. TOTAL NO. OF OVERBURDEN DISTURBED UNDISTURBED | | | | | | | | | | | |
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| 18. TOTAL ROCK CORE RECOVERY FOR BORING N/A | ∨ERTIC | CAL | | NCLINED DEG. FROM VERT | . — | : 11/ | | | / 16 000 | 00 | <u> </u> | | | | | |
| 19. SIGNATURE OF INSPECTOR 19. SIGNATURE | 7. THICKNESS | S OF OV | /ERBU | RDEN | - | | | | | | N 1/A | | | | | |
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NAB FORM 1836 NOV 06 $\, \underline{\nabla} \, \operatorname{ATD}$ ₹ co

Hole No. SB-1-Sump

| י ייםם | INICIO | DIVISION | IN | STALLATION | | | | i ioie i | SHE | | 1 | |
|------------------------|--|---|---|----------------------------|-------------------|------------------|------------|----------|------------------|-----------------|-----------------------|--|
| | ING LOG | North Atlantic Division | | Fort Drum | | | | | OF | | HEETS | |
| 1. PROJECT | Dointo: Call | Parings and Campling | | . SIZE AND T | | | | nollow s | tem a | uger | | |
| | | Borings and Sampling rdinates or Station) | 11 | a. VERTICAL | DATUM | 11b. HORIZ | ONTAL D | DATUM | | | | |
| | | | 12. MANUFACTURER'S DESIGNATION OF DRILL | | | | | | | | | |
| 3. DRILLING A | | D: 1: 1 | CME-55 Yellow, continuous flight hollow-stem auger | | | | | | | | | |
| USACE, 4. NAME OF D | Baltimore | District | 13. TOTAL NO. OF OVERBURDEN DISTURBED UNDISTURBED SAMPLES TAKEN 2 | | | | | | | | | |
| Justin Bl | | | 2 0 | | | | | | | | | |
| 5. NAME OF IN | NSPECTOR | | - | | | | 0 | | ∇ | | | |
| Kaitlyn N | | | | . ELEVATION . DATE/ STA | | | PLETED | | $ar{m{\Lambda}}$ | | | |
| 6. DIRECTION | | NOUNED DEC FROM /FRT | 7 | | 1/16 00 | | /16 000 | 00 | Ţ | | | |
| ∨ERTIC | | NCLINED DEG. FROM VERT | | . ELEVATION | TOP OF H | IOLE | | | | | | |
| | S OF OVERBU | | 18 | . TOTAL ROC | K CORE F | RECOVERY FO | OR BORIN | NG | N/A | | | |
| | LLED INTO RO | | 19 | . SIGNATURE | OF INSPE | CTOR | | | | | | |
| 9. TOTAL DEP | | 4.0 ft | | | | I | _ | I | | | I | |
| ELEV. (ft) | DEPTH (ft) | CLASSIFICATION OF MATERIALS (Description) | | SAMPLE/ BOX | SPT/ AB/ CR | Blows/ 0.5 ft | PP/ tsf | REC. | % REC. | RQD | Length RQD (in) | |
| | 0.0 | OPEN HOLE. | | | | | | | | | | |
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| | -₩ | | | | | | | | | | | |
| | -₩ | | | | | | | | | | | |
| | 2.0 | | | | | | | | | | | |
| | 2.0 | SILTY SAND (SM), fine, subangular to | | | | | | | | | | |
| | - | subrounded; blackish brown, very moist, trace organics, trace gravel, trace rootlets. | | CD 4 C | CDT | 6555 | | 0.7 | 1000/ | | | |
| | † | nace organics, nace graver, nace rootlets. | | SB-1-Sump | SPT | 6-5-5-5 | | 0.7 | 100% | | | |
| | 2.7 | DOODLY ODADED CAND (CD) 5 | | | | | | | | | | |
| | †.∙: | POORLY GRADED SAND (SP), fine, subangular to subrounded; brown, very | | | | | | | | | | |
| | †∙∷ | moist, trace silt. | | | | | | | | | | |
| | †:∙: | | | SB-1-Sump | SPT | 6-5-5-5 | | 0.5 | 38% | | | |
| | ₹.:• | | | JD-1-Juilip | , Ji i | 0-0-0-0 | | 0.5 | 30 /6 | | | |
| | 7. | | | | | | | | | | | |
| | ₹ | | | | | | | | | | | |
| | 1. | BOTTOM OF HOLE | | | | | | | | | | |
| | 1 | Notes: | | | | | | | | | | |
| | 1 | | | | | | | | | | | |
| | 1 | Depth of sump measured from 0-2 ft bgs. | | | | | | | | | | |
| | 1 | Sampled using a standard 1 3" split spoon | | | | | | | | | | |
| |] | driven automatically by a 140 lb. hammer dropped 30". | | | | | | | | | | |
| |] | | | | | | | | | | | |
| |] | Soils are field visually classified in accordance with the Unified Soils | | | | | | | | | | |
| |] | Classification System. | | | | | | | | | | |
| | | Soil samples will be analyzed for PFCs via | | | | | | | | | | |
| | _ | method 537 as well as, VOCs, SVOCs and | | | | | | | | | | |
| | _ | Metals via methods 8260-C, 8270 and 3050B, respectively. | | | | | | | | | | |
| | | occob, respectively. | | | | | | | | | | |
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| AB FORM | 1 1836 | ∑ ATD Y CO Y AD HRS | | PRO | | oints: Soil B | | | | IOLE NO SB-1 |). C | |

Hole No. SB-2-Drain

| PROJECT Shower Po BORING LOC DRILLING AG USACE, E NAME OF DR Justin Blac NAME OF INS Kaitlyn Ne DIRECTION C VERTICA THICKNESS C DEPTH DRILL TOTAL DEPTI | GENCY Baltimore D RILLER ackson ISPECTOR elson OF HOLE AL INC OF OVERBURD LED INTO ROC TH OF HOLE DEPTH (ft) ISPECTOR IS | istrict LINED DEG. FROM VERT. EN | 10. 11a. 12. 13. 14. 15. 16. 17. 17. 18. | ELEVATION TOTAL ROCI | PE OF BIDATUM JRER'S DE PERION, CO OF OVERE AKEN F CORE BO GROUND RTED 2/16 000 TOP OF H K CORE R | 11b. HORIZ ESIGNATION CONTINUOUS BURDEN DI EXECUTE DI E | ONTAL DO ONT | hollow-s | stem a | uger | 1 SHEETS |
|--|--|--|---|--|---|--|--|--------------|--------------|--------|------------------------|
| Shower Pot Borning Local Borning Local Borning Local Black Local B | GENCY Baltimore D RILLER ackson ISPECTOR elson OF HOLE AL INC OF OVERBURD LED INTO ROC TH OF HOLE DEPTH (ft) ISPECTOR IS | istrict LINED DEG. FROM VERT. EN CLASSIFICATION OF MATERIALS (Description) | 11a. 12. 13. 14. 15. 16. 17. 18. | MANUFACTU MANUFACTU CME-55 Y TOTAL NO. 6 SAMPLES TA TOTAL # OF ELEVATION DATE/: STAF IME : 11// ELEVATION TOTAL ROCI SIGNATURE | DATUM JRER'S DE GEILOW, CO OF OVERE AKEN F CORE BO GROUND RTED 2/16 000 TOP OF H K CORE R | 11b. HORIZ ESIGNATION CONTINUOUS BURDEN DI EXECUTE DI E | ONTAL DO ONT | nollow-s | stem a UNDIS | uger | D |
| DRILLING AG USACE, E NAME OF DR JUSTIN Blace NAME OF INS Kaitlyn Ne DIRECTION C VERTICA THICKNESS C DEPTH DRILL TOTAL DEPTI | GENCY Baltimore D RILLER ackson ISPECTOR elson OF HOLE AL INC OF OVERBURD LED INTO ROC TH OF HOLE DEPTH (ft) ISPECTOR IS | istrict LINED DEG. FROM VERT. EN CLASSIFICATION OF MATERIALS (Description) | 12. C 13. 14. 15. 16. TI - 17. | MANUFACTU CME-55 Y TOTAL NO. (SAMPLES TA TOTAL # OF ELEVATION DATE/: STAF IME: 11// ELEVATION TOTAL ROCK SIGNATURE SAMPLE/ | JRER'S DE (ellow, of OF OVERE AKEN F CORE BO GROUND RTED 2/16 000 TOP OF H | ESIGNATION CONTINUOUS BURDEN DI | OF DRILL S flight I STURBEI 2 0 PLETED 2/16 000 | hollow-s | VNDIS | STURBE | D . |
| DRILLING AG USACE, E NAME OF DR Justin Blace NAME OF INS Kaitlyn Ne DIRECTION C VERTICA THICKNESS C DEPTH DRILL TOTAL DEPTI | GENCY Baltimore D RILLER ackson ISPECTOR elson OF HOLE AL INC OF OVERBURD LED INTO ROC TH OF HOLE DEPTH (ft) ISPECTOR IS | istrict LINED DEG. FROM VERT. EN CLASSIFICATION OF MATERIALS (Description) | 13. 14. 15. 16. 17. 17. | CME-55 Y TOTAL NO. (SAMPLES TA TOTAL # OF ELEVATION DATE/ STAF IME 11// ELEVATION TOTAL ROCI SIGNATURE SAMPLE/ | Cellow, COPPOSE OF OVEREAKEN FOR CORE BOOK GROUND RITED 2/16 000 TOP OF H | OXES WATER COMF 00 11/2 OLE ECOVERY FO | oflight has students for the students of the s | hollow-s | VNDIS | STURBE | D |
| USACE, E . NAME OF DR Justin Blac . NAME OF INS Kaitlyn Ne . DIRECTION C . VERTICA . THICKNESS C . DEPTH DRILL . TOTAL DEPTI ELEV. (ff) | Baltimore D RILLER ackson ISPECTOR elson OF HOLE AL INC OF OVERBURD LED INTO ROC TH OF HOLE DEPTH (ft) IND RILLER INTO ROC INTO R | ELINED DEG. FROM VERT. EN C 6.5 ft CLASSIFICATION OF MATERIALS (Description) | 13. 14. 15. 16. 17. 17. | CME-55 Y TOTAL NO. (SAMPLES TA TOTAL # OF ELEVATION DATE/ STAF IME 11// ELEVATION TOTAL ROCI SIGNATURE SAMPLE/ | Cellow, COPPOSE OF OVEREAKEN FOR CORE BOOK GROUND RITED 2/16 000 TOP OF H | OXES WATER COMF 00 11/2 OLE ECOVERY FO | oflight has students for the students of the s | hollow-s | VNDIS | STURBE | D . |
| USACE, E . NAME OF DR Justin Blac . NAME OF INS Kaitlyn Ne . DIRECTION C . VERTICA . THICKNESS C . DEPTH DRILL . TOTAL DEPTI ELEV. (ff) | Baltimore D RILLER ackson ISPECTOR elson OF HOLE AL INC OF OVERBURD LED INTO ROC TH OF HOLE DEPTH (ft) IND RILLER INTO ROC INTO R | ELINED DEG. FROM VERT. EN C 6.5 ft CLASSIFICATION OF MATERIALS (Description) | 13. 14. 15. 16. TI - 17. | TOTAL NO. C SAMPLES TA TOTAL # OF ELEVATION DATE/ STAF IME 11// ELEVATION TOTAL ROCI SIGNATURE | OF OVEREAKEN CORE BOOK GROUND RTED 2/16 000 TOP OF H | OXES WATER COMF 00 11/2 OLE ECOVERY FO | STURBEI 2 0 PLETED 2/16 000 | 00 | VNDIS | STURBE | :D |
| NAME OF DR Justin Blac NAME OF INS Kaitlyn Ne DIRECTION C VERTICA THICKNESS C DEPTH DRILL TOTAL DEPTI | RILLER ACKSON ISPECTOR elson OF HOLE AL INC OF OVERBURD LED INTO ROC TH OF HOLE DEPTH (ft) INTO ROC IN | ELINED DEG. FROM VERT. EN C 6.5 ft CLASSIFICATION OF MATERIALS (Description) | 14. 15. 16. TI 17. | SAMPLES TA TOTAL # OF ELEVATION DATE/ STAF IME 11// ELEVATION TOTAL ROCI SIGNATURE SAMPLE/ | GROUND RTED 2/16 000 TOP OF H | OXES WATER COMP 00 11/2 OLE ECOVERY FO | 2 0 PLETED 2/16 000 | 00 | <u>▼</u> | | |
| ELEV. (ff) | SPECTOR elson OF HOLE AL INC OF OVERBURD LED INTO ROC TH OF HOLE DEPTH (ft) | EN CLASSIFICATION OF MATERIALS (Description) | 15. TI 16. TI 17. 17. | ELEVATION DATE/ STAF IME 11// ELEVATION TOTAL ROCI SIGNATURE SAMPLE/ | GROUND RTED 2/16 000 TOP OF H K CORE R | WATER COMP COMP COMP COMP COMP COMP COMP COMP | PLETED 2/16 000 | 00 | Ā Ā | | |
| Kaitlyn Ne DIRECTION C VERTICA THICKNESS C DEPTH DRILL TOTAL DEPT ELEV. (ft) | elson OF HOLE AL INC OF OVERBURD LLED INTO ROC TH OF HOLE DEPTH (ft) | EN CLASSIFICATION OF MATERIALS (Description) | 15. TI 16. TI 17. 17. | ELEVATION DATE/ STAF IME 11// ELEVATION TOTAL ROCI SIGNATURE SAMPLE/ | GROUND RTED 2/16 000 TOP OF H K CORE R | WATER COMP COMP COMP COMP COMP COMP COMP COMP | PLETED 2/16 000 | 00 | Ā Ā | | |
| DIRECTION C VERTICA THICKNESS C DEPTH DRILL TOTAL DEPTI ELEV. (ft) | OF HOLE AL INC OF OVERBURD LED INTO ROC TH OF HOLE DEPTH (ft) | EN CLASSIFICATION OF MATERIALS (Description) | 16. TI - 17. 18. | DATE/ STAFIME 11/2 ELEVATION TOTAL ROCI SIGNATURE SAMPLE/ | RTED 2/16 000 TOP OF H | COMF 00 11/2 OLE | 2/16 000 | 00 | <u>¥</u> | | |
| VERTICA THICKNESS (DEPTH DRILL TOTAL DEPTI ELEV. (ft) | OF OVERBURD LED INTO ROC TH OF HOLE DEPTH (ft) 99 | EN CLASSIFICATION OF MATERIALS (Description) | 17. - 18. | IME 11// ELEVATION TOTAL ROCI SIGNATURE | 2/16 000 TOP OF H K CORE R | OLE ECOVERY FO | 2/16 000 | | | | |
| T. THICKNESS (I. DEPTH DRILL) TOTAL DEPTH ELEV. (ft) | OF OVERBURD LED INTO ROC TH OF HOLE DEPTH (ft) | EN CLASSIFICATION OF MATERIALS (Description) | 18. | TOTAL ROCI | K CORE R | ECOVERY FO |)R BORIN | 1G | | | |
| ELEV. (ft) | LED INTO ROC TH OF HOLE DEPTH (ft) | 6.5 ft CLASSIFICATION OF MATERIALS (Description) | | SIGNATURE SAMPLE/ | | | OR BORIN | 1G | | | |
| ELEV. (ft) | TH OF HOLE DEPTH (ft) | 6.5 ft CLASSIFICATION OF MATERIALS (Description) | | SIGNATURE SAMPLE/ | | | | | N/A | | |
| ELEV. DE | DEPTH GU | CLASSIFICATION OF MATERIALS (Description) | | | | | | | | | |
| (ft) | | (Description) | | | | | _ | | | | |
| (ft) | | (Description) | | | SPT/ | Blows/ | PP/ | Length | % | | Length |
| | | , , , | | BOX | AB/ CR | 0.5 ft | tsf | REC. | REC. | RQD | RQD |
| | | ILL. | | | CK | | | (ft) | 1.20. | | (in) |
| | | | | | | | | | | | |
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| | 4.5 | OODLY ODADED OAND (OD) 5 | ↓ ↓ | | | | <u> </u> | | \sqcup | | \square |
| | | POORLY GRADED SAND (SP), fine to | | SB-2-Drain | SPT | 4-6-6-6 | | 0.5 | 100% | | |
| | 5.0 | medium, subangular to subrounded; yellowish red, wet, loose, iron oxide | , [| | J. 1 | | | | 1.55,0 | | \sqcup |
| | | staining. | | | | | | | | | |
| | 1/// [| EAN CLAY (CL), gray, medium stiff, trace | | | | | | | | | |
| | 1// | silt. | | SB-2-Drain | SPT | 4-6-6-6 | | 0.7 | 47% | | |
| | | | | | | | | | | | |
| | 1// | | | | | | | | | | |
| | | SOTTOM OF HOLE | ┨ | | | | | | | | $\vdash \vdash \vdash$ |
| |] 5 | OUT TOWN OF TIOLE | | | | | | | | | |
| | $\dashv \mid \underline{r}$ | <u>lotes:</u> | | | | | | | | | |
| | + - | | | | | | | | | | |
| |] <i>F</i> | Schonstedt Multi-Frequency Pipe & Cable Locator was used to determine the | | | | | | | | | |
| | 4 | borehole location. | | | | | | | | | |
| | \dashv | | | | | | | | | | |
| | <u> </u> | Sampled using a standard 1 3" split spoon | | | | | | | | | |
| |] | driven automatically by a 140 lb. hammer dropped 30". | | | | | | | | | |
| | 4 | uιορρ c u συ . | | | | | | | | | |
| | $\dashv \mid s$ | Soils are field visually classified in | | | | | | | | | |
| |] | accordance with the Unified Soils | | | | | | | | | |
| | 4 | Classification System. | | | | | | | | | |
| | ء ا ⊢ | Soil samples will be analyzed for PFCs via | | | | | | | | | |
| |] | method 537 as well as, VOCs, SVOCs and | | | | | | | | | |
| |] | Metals via methods 8260-C, 8270 and | | | | | | | | | |
| | 4 | 3050B, respectively. | | | | | | | | | |
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| AB FORM | | | 1 1 | l l | | | 1 | 1 | | | |

Hole No. SB-2-Sump

| וופט | LING LOG | DIVISION | | TALLATION | | | | i ioie i | SHE | ET | 1 | |
|---------------------|---------------------|---|---|----------------|-------------|------------------|------------|----------------|------------------|------|---------------|--|
| I. PROJECT | | North Atlantic Division | _ | Fort Drum | | т 00- | " OD ' | - II - · | OF | | SHEETS | |
| | | Borings and Sampling | | SIZE AND TY | | 11b. HORIZO | | nollow s | tem a | uger | | |
| | | dinates or Station) | | | | ESIGNATION (| | | | | | |
| B. DRILLING | | | | | | continuous | | | stem a | uger | | |
| USACE 1. NAME OF | Baltimore | District | 13. TOTAL NO. OF OVERBURDEN DISTURBED UNDISTURBED SAMPLES TAKEN 2 | | | | | | | | | |
| | Blackson | | 44 TOTAL # OF CODE DOVES 0 | | | | | | | | | |
| | INSPECTOR | | 14. TOTAL # OF CORE BOXES 0 | | | | | | | | | |
| Kaitlyn | Nelson N OF HOLE | | | DATE/: STAF | | COMP | LETED | | $ar{m{\Lambda}}$ | | | |
| DIRECTION (SERT | | NCLINED DEG. FROM VERT | TI | | 2/16 00 | | /16 000 | 00 | Ţ | | | |
| | SS OF OVERBUR | | | ELEVATION | TOP OF I | HOLE | | | | | | |
| | RILLED INTO RO | | | | | RECOVERY FO | R BORIN | NG | N/A | | | |
| | EPTH OF HOLE | 3.3 ft | 19. | SIGNATURE | OF INSP | ECTOR | | | | | | |
| ELEV. (ft) | DEPTH (ft) | CLASSIFICATION OF MATERIALS (Description) | | SAMPLE/ BOX | SPT/ AB/ | Blows/ 0.5 ft | PP/ tsf | Length REC. | % REC. | RQD | Length RQD | |
| | 0.0 | OPEN HOLE. | | | CR | | | (ft) | INLO. | | (in) | |
| | | | | | | | | | | | | |
| | 1.3 | SILTY SAND (SM), brownish black, trace | - | | | | | | | | | |
| | 7 | organics, trace roots, trace gravel. | | 20.00 | ODT | | | 2.5 | 4000/ | | | |
| | | | | SB-2-Sump | SPT | WOH-5-1-1 | | 0.5 | 100% | | | |
| | 1.8 | POORLY GRADED SAND (SP), fine, subangular to subrounded; yellowish red, very moist, loose, iron oxide staining. | | | | | | | | | | |
| | | | \$ | SB-2-Sump | SPT | WOH-5-1-1 | | 0.6 | 40% | | | |
| | | | | | | | | | | | | |
| | | BOTTOM OF HOLE | 7 | | | | | | | | | |
| | | Notes: | | | | | | | | | | |
| | | Depth of sump measured from 0-1.3 ft bgs. | | | | | | | | | | |
| | 1 | | | | | | | | | | | |
| | _ | Sampled using a standard 1 3" split spoon driven automatically by a 140 lb. hammer dropped 30". | | | | | | | | | | |
| | | Soils are field visually classified in accordance with the Unified Soils Classification System. | | | | | | | | | | |
| | | Soil samples will be analyzed for PFCs via method 537 as well as, VOCs, SVOCs and Metals via methods 8260-C, 8270 and | | | | | | | | | | |
| | - | 3050B, respectively. | | | | | | | | | | |
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Hole No. SR-3-Drain

| DRILL | LING LOG | North Atlantic Division | INSTALLATION Fort Drum | | | | поте | SHE | EET | 1 SHEETS | | |
|---------------------------|-----------------|---|---|-----------------------------------|-------------|------------|----------|------------------|------|-------------|--|--|
| 1. PROJECT | | I NOTH ANALING DIVISION | 10. SIZE AND TY | | T 3.2F | " (UD 1 | nollow s | | | once I (| | |
| | Points: Soil E | Borings and Sampling | 10. SIZE AND TY | | 11b. HORIZ | | | orcili q | uyeı | | | |
| | | linates or Station) | 1 | • • • • • • • • • • • • • • • • • | | , . | • | | | | | |
| B. DRILLING | AGENCY | | 12. MANUFACTURER'S DESIGNATION OF DRILL CME-750 | | | | | | | | | |
| | , Baltimore D | District | 13. TOTAL NO. OF OVERBURDEN DISTURBED UNDISTURBED | | | | | | | | | |
| 1. NAME OF | | | SAMPLES TAKEN 1 0 | | | | | | | | | |
| Justin B | | | 14. TOTAL # OF | CORE B | OXES | 0 | | ∇ | | | | |
| 5. NAME OF 1 Kaitlyn I | INSPECTOR | | 15 ELEVATION CROLIND WATER | | | | | | | | | |
| 6. DIRECTION | | | 16. DATE/ STAI | RTED | COMF | PLETED | | $ar{m{\Lambda}}$ | | | | |
| DINLOTION VERTI | | ICLINED DEG. FROM VERT. | TIME 11/ | 2/16 00 | 00 11/2 | /16 00 | 00 | Ţ | | | | |
| | | | 17. ELEVATION | TOP OF H | HOLE | | | | | | | |
| | S OF OVERBUR | | 18. TOTAL ROC | K CORE F | RECOVERY FO | OR BORII | NG | N/A | | | | |
| | RILLED INTO ROO | | 19. SIGNATURE | OF INSPE | ECTOR | | | | | | | |
| 9. TOTAL DE | PTH OF HOLE | 4.5 ft | | | | _ | | | | | | |
| ELEV. | DEPTH H | CLASSIFICATION OF MATERIALS | SAMPLE/ | SPT/ | Blows/ | PP/ | Length | % | | Lengt | | |
| (ft) | DEPTH CHI | (Description) | BOX | AB/ CR | 0.5 ft | tsf | REC. | REC. | RQD | RQD | | |
| | | GRAVELLY, SANDY FILL. | | | | | (ft) | | | (in) | | |
| | | ONAVELET, SANDT FILE. | | | | | | | | | | |
| | - | | | | | | | | | | | |
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| | 788 | | | | | | | | | | | |
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| | - | | | | | | | | | | | |
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| | | | | | | | | | | | | |
| + | 2.5 | POORLY GRADED SAND (SP), fine to | 1 | | | | 1 | - | | | | |
| | †[·] | medium, subangular to subrounded; | | | | | | | | | | |
| | ∤. •↓ | tannish brown, slightly moist, loose. | | | | | | | | | | |
| | - •: | | | | | | | | | | | |
| | 1 | | | | | | | | | | | |
| | | | | | | | | | | | | |
| - | 3.5 | Fine; trace silt, trace, iron oxide staining, | SB-3-Drain | SPT | 6-10-8-9 | | 1.7 | 85% | | | | |
| | 7. ↓ | contains one large iron concretion. | | | | | | | | | | |
| | 7.14 | 3 | | | | | | | | | | |
| | -{∙:• | | | | | | | | | | | |
| | 1 | | | | | | | | | | | |
| | ↓:•] | | | | | | | | | | | |
| + | <u> </u> | BOTTOM OF HOLE | 1 | | | | 1 | | | | | |
| | | - | | | | | | | | | | |
| | 7 | Notes: | | | | | | | | | | |
| | - | A Schonstedt Multi Eraguanav Bina 9 Cabla | | | | | | | | | | |
| | 4 | A Schonstedt Multi-Frequency Pipe & Cable Locator was used to determine the | | | | | | | | | | |
| | 4 | borehole location. | | | | | | | | | | |
| | _ | | | | | | | | | | | |
| | | Sampled using a standard 1 3" split spoon | | | | | | | | | | |
| | 7 | driven automatically by a 140 lb. hammer dropped 30". | | | | | | | | | | |
| | 7 | aropped ou . | | | | | | | | | | |
| | | Soils are field visually classified in | | | | | | | | | | |
| | 4 1 | accordance | | | | | | | | | | |
| | _ | with the Unified Soils Classification System. | | | | | | | | | | |
| | | Soil samples will be analyzed for PFCs via | | | | | | | | | | |
| | 7 | method 537 as well as, VOCs, SVOCs and | | | | | | | | | | |
| | 7 | Metals via methods 8260-C, 8270 and | | | | | | | | | | |
| | 4 | 3050B, respectively. | | | | | | | | | | |
| | 4 | | | | | | | | | | | |
| | _ | | | | | | | | | | | |
| | | | | | | | | | | | | |
| | 7 | | | | | | | | | | | |
| | M 1836 | | | | 1 | | | | | | | |

Hole No. SB-3-Sump A

| DRILL | ING LOG | DIVISION | | TALLATION | | | | JIE NO | SHE | ET | 1 |
|---------------|-------------------|---|--|----------------------------|-------------------|------------------|------------|-----------|-----------|--------|-----------------------|
| 1. PROJECT | | North Atlantic Division | Fort Drum OF 1 SHEETS 10. SIZE AND TYPE OF BIT 3.25" OD hollow stem auger | | | | | | | | |
| | Points: Soil Bo | orings and Sampling | | SIZE AND TY a. VERTICAL | | 11b. HORIZ | | | tem a | uger | |
| | OCATION (Coordin | | | | | | | | | | |
| 3. DRILLING A | AGENCY | | 12. MANUFACTURER'S DESIGNATION OF DRILL CME-750 | | | | | | | | |
| | Baltimore D | istrict | 13. TOTAL NO. OF OVERBURDEN DISTURBED UNDISTURBED | | | | | | | | |
| 4. NAME OF D | | | SAMPLES TAKEN 1 0 | | | | | | | | |
| 5. NAME OF II | | | _ | . TOTAL # OF | | | 0 | | ∇ | | |
| Kaitlyn N | lelson | | | ELEVATION | | | PLETED | | Ā | | |
| 6. DIRECTION | | N. N. E. C. E. E. C. E. E. C. E. E. C. E. E. C. E. E. E. C. E. E. C. E. E. C. E. E. E. C. | | DATE/ STA | /2/16 00 | | 1/16 00 | 00 | ¥ | | |
| ⊠ VERTIO | | CLINED DEG. FROM VERT. | 17. | ELEVATION | TOP OF H | IOLE | | | | | |
| | S OF OVERBURD | | 18. | TOTAL ROC | K CORE R | ECOVERY FO | OR BORII | NG | N/A | | |
| | ILLED INTO ROC | | 19. | SIGNATURE | OF INSPE | CTOR | | | | | |
| 9. TOTAL DEF | | 4.5 ft | \vdash | | | | _ | Longth | | | Longth |
| ELEV. (ft) | DEPTH (ft) | CLASSIFICATION OF MATERIALS (Description) | | SAMPLE/ BOX | SPT/ AB/ CR | Blows/ 0.5 ft | PP/ tsf | REC. (ft) | % REC. | RQD | Length RQD (in) |
| | 0.0 | PEN HOLE. | | | | | | | | | |
| | 0.5 | | | | | | | | | | |
| | 0.5 | IR. | 1 | | | | | | | | |
| | 4 | | | | | | | | | | |
| | _\\ /\ | | | | | | | | | | |
| | 4//1 | | | | | | | | | | |
| | - V | | | | | | | | 00/ | | |
| | - | | | | | | | 0.0 | 0% | | |
| | - / \ | | | | | | | | | | |
| | ⊣/ \ I | | | | | | | | | | |
| | -// \ | | | | | | | | | | |
| | 2.5 | |]] | | | | | | | | |
| | - :• F | POORLY GRADED SAND (SP), fine, subangular to subrounded; yellowish | | | | | | | | | |
| | ∤∙: ∤ | brown, slightly moist, loose, trace silt. | | | | | | | | | |
| | 7:∙1 | | | | | | | | | | |
| | 7∙:- | | | | | | | | | | |
| | 7:-1 | | S | B-3-Sump- | A SPT | 4-4-5-5 | | 2.0 | 100% | | |
| |].: | | | | | | | | | | |
| | _}::] | | | | | | | | | | |
| | 1.: | | | | | | | | | | |
| | 1:1 | | | | | | | | | | |
| | E | BOTTOM OF HOLE | 1 | | | | | | | | |
| | | Notes: | | | | | | | | | |
| | \dashv \vdash | | | | | | | | | | |
| | [| Depth of sump measured from 0-0.5 ft bgs. | | | | | | | | | |
| | - s | Sampled using a standard 1 3" split spoon | | | | | | | | | |
| | - c | Iriven automatically by a 140 lb. hammer dropped 30". | | | | | | | | | |
| | + _ | | | | | | | | | | |
| | - ° | Soils are field visually classified in accordance | | | | | | | | | |
| | - v | with the Unified Soils Classification System. | | | | | | | | | |
| | s | Soil samples will be analyzed for PFCs via | | | | | | | | | |
| | †] | method 537 as well as, VOCs, SVOCs and | | | | | | | | | |
| | † | Metals via methods 8260-C, 8270 and 3050B, respectively. | | | | | | | | | |
| | 7 | | | | | | | | | | |
| | 1 | | | | | | | | | | |
| | 1 | | | | | | | | | | |
| | 1 | | | | | | | | | | |
| | | | | | | | | | | | |
| JAR FORM | /I 1836 ∇ | Z ATD ▼ CO ▼ AD | | | JECT _ | ints: Soil B | | 1.6 | . н | OLE NO |). |

Hole No. SB-3-Sump B

| | | DIVISION | INS | STALLATION | | | - 110 | ile illo. | SHE | - <u>5-5u</u> -FT | 1 1 | |
|---|---|--|--|----------------|-------------------|------------------|-------------------|------------------------|-----------|----------------------|-----------------------|--|
| DRILLING LO | North Atlantic Division Fort Drum OF 1 SHEETS | | | | | | | HEETS | | | | |
| 1. PROJECT | | | 10. SIZE AND TYPE OF BIT 3.25" OD hollow stem auger | | | | | | | | | |
| | | ings and Sampling | 11a. VERTICAL DATUM 11b. HORIZONTAL DATUM | | | | | | | | | |
| BORING LOCATION (0 BORILLING AGENCY | Coordinat | tes or Station) | 12. MANUFACTURER'S DESIGNATION OF DRILL CME-750 | | | | | | | | | |
| USACE, Baltimo | re Dis | trict | 13. TOTAL NO. OF OVERBURDEN DISTURBED UNDISTURBED | | | | | | | | | |
| 4. NAME OF DRILLER Justin Blackson | | | SAMPLES TAKEN 1 0 | | | | | | | | | |
| 5. NAME OF INSPECTOR | ₹ | | 14 | . TOTAL # OF | CORE BO | DXES | 0 | | ∇ | | | |
| Kaitlyn Nelson | | | | ELEVATION | | | | | Ā | | | |
| 6. DIRECTION OF HOLE | | | | DATE/STA | 12/16 00 | | LETED 1/16 000 | | <u> </u> | | | |
| | INCLI | NED DEG. FROM VERT. | 17. | ELEVATION | | | | | | | | |
| 7. THICKNESS OF OVER | RBURDE | N | - | | | ECOVERY FO | OR BORIN | 1G | N/A | | | |
| 8. DEPTH DRILLED INTO | ROCK | | | SIGNATURE | | | | | | | | |
| 9. TOTAL DEPTH OF HO | LE | 3.0 ft | | | | | _ | | | | | |
| ELEV. DEPTH (ft) | LEGEND | CLASSIFICATION OF MATERIALS (Description) | | SAMPLE/ BOX | SPT/ AB/ CR | Blows/ 0.5 ft | PP/ tsf | Length REC. (ft) | % REC. | RQD | Length RQD (in) | |
| 2.0 | si b si b | DORLY GRADED SAND (SP), fine, ubangular to subrounded; brown with lackish brown, slightly moist, loose, trace ilt, trace clay, trace organics, 'burnt' lackish staining. | S | B-3-Sump | B SPT | 7-21 | | 0.7 | 70% | | | |
| - | | | | | | | | | | | | |
| | | <u>tes:</u> | | | | | | | | | [| |
| | De | pth of sump measured from 0-2 ft bgs. | | | | | | | | | | |
| | | mpled using a standard 1 3" split spoon | | | | | | | | | | |
| - | | ven automatically by a 140 lb. hammer ropped 30". | | | | | | | | | | |
| | | | | | | | | | | | | |
| | | ils are field visually classified in ccordance | | | | | | | | | | |
| | | h the Unified Soils Classification System. | | | | | | | | | [| |
| | So | il samples will be analyzed for PFCs via | | | | | | | | | | |
| - | m | nethod 537 as well as, VOCs, SVOCs and | | | | | | | | | | |
| | | Metals via methods 8260-C, 8270 and 050B, respectively. | | | | | | | | | | |
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| Fire Fighting Foam Compliance Storyboard | | | | | | | | | | | | | |
|---|-------------------------------------|---|--|--|--|---|---|--|--|--|---|--|--|
| | | Chemical Bulk Storage (CBS) Registration Determination * Hazardous Subtance Reporting Determination Release Prohibition and Phase-Out Determination Training & Testing Release Prohibitions | | | | | | | | General PFC Considerations | | | |
| Foam Storage as of 7/12/2016 | Gallons of Liquid Concentrate | Container Type | Foam Manufacturer & Name | Percent (by volume) of the four regulated PFOA/S Hazardous Substances in the Liquid Concentrate | Does the container require CBC Registration by April 2016 due to PFOA/S? (Yes/No) | Pounds of PFOA/S Released in the event of 100% discharge from the container | Would a full container discharge exceed the 1 lb Reportable Quantity (RQ) for PFOA/S? (Y/N) | Will more than one pound of PFOA/S be discharged when the fire suppression system or emergency response vehicle is used? *** | Is the fixed or mobile fire suppression system required to be be replaced by DEC's April 25, 2017 deadline? (Y/N) *** | Is the foam subject to NYSDEC request to discontinue use of <u>ANY</u> Class B fire fighting foam for training purposes due to potential environmental and human health effects? (Yes/No) | Is the foam subject to ACSIM request to discontinue use of <u>AFFF</u> for training purposes ? (Yes/No) | Other than PFOA/S, should the foam be expected to have any other Perfluorinated Chemicals (PFCs), Fluroalkyl surfactants, etc. including the short chain less toxic PFC compounds with C6 telomer chemisty? (Yes/No) | |
| Hanger 2072 Fixed Fire Suppression System | 2,600 | Stationary tank | National Foam, Inc. Aer-O-Water 3% Aqueous Film Forming Foam (AFFF) | less than 0.0001 % | No | Less than 0.022 | No | No | No | YES | YES | YES | |
| Hanger 2072 Drum Storage | 220 | 4-55 gallon drums | National Foam, Inc. Aer-O-Water 3% Aqueous Film Forming Foam (AFFF) | less than 0.0001 % | No | Less than 0.002 | No | No | No | YES | YES | YES | |
| Building 19855 Fixed Fire Suppresion System | 300 | Stationary tank | National Foam, Inc. Aer-O-Water 3% Aqueous Film Forming Foam (AFFF) | less than 0.0001 % | No | Less than 0.003 | No | No | No | YES | YES | YES | |
| Hanger 2049 Fixed Fire Suppresion System | 400 | Stationary tank | ANSUL Jet-X 2%, High Expansion Foam Concentrate) | 0% | No | 0 | No | No | No | Not Applicable | NO | NO | |
| Hanger 2050 Fixed Fire Suppresion System | 200 | Stationary tank | ANSUL Jet-X 2%, High Expansion Foam Concentrate) | 0% | No | 0 | No | No | No | Not Applicable | NO | NO | |
| Hanger 2060 Fixed Fire Suppresion System | 500 | Stationary tank | ANSUL Jet-X 2%, High Expansion Foam Concentrate) ANSUL Jet-X 2%, High Expansion Foam | 0% | No | 0 | No | No | No | Not Applicable | NO | NO | |
| Hanger 2060 Drum Storage | 110 | 2-55 gallon drums | Concentrate) | 0% | No | 0 | No | No | No | Not Applicable | NO | NO | |
| Hanger 2070 Fixed Fire Suppression System | 700 | Stationary tank | ANSUL Jet-X 2%, High Expansion Foam Concentrate) | 0% | No | 0 | No | No | No | Not Applicable | NO | NO | |
| Hanger 2070 Drum Storage | 110 | 2-55 gallon drums | ANSUL Jet-X 2%, High Expansion Foam Concentrate) | 0% | No | 0 | No | No | No | Not Applicable | NO | NO | |
| Hanger 2074 Fixed Fire Suppresion System ** | 600 | Stationary tank | ANSUL Jet-X 2%, High Expansion Foam Concentrate) ANSUL Jet-X 2%, High Expansion Foam | 0% | No | 0 | No | No | No | Not Applicable | NO | NO | |
| Hanger 2074 Drum Storage | 660 | 12-55 gallon drums | Concentrate) | 0% | No | 0 | No | No | No | Not Applicable | NO | NO | |
| Hanger 19710 Fixed Fire Suppresion System | 700 | Stationary tank | ANSUL Jet-X 2%, High Expansion Foam Concentrate) | 0% | No | 0 | No | No | No | Not Applicable | NO | NO | |
| Hanger 20470 Fixed Fire Suppresion System AF Gray Eagle Hanger | 200 | Stationary tank | ANSUL Jet-X 2 3/4%, High Expansion Foam Concentrate) ANSUL Jet-X 2 3/4%, High Expansion Foam | 0% | No | 0 | No | No | No | Not Applicable | NO | NO | |
| Hanger 20470 Drum Storage | 55 | 1-55 gallon drum | Concentrate) | 0% | No | 0 | No | No | No | Not Applicable | NO | NO | |
| Hanger 20471 Fixed Fire Suppresion System AF Gray Eagle Hanger | 200 | Stationary tank | ANSUL Jet-X 2 3/4%, High Expansion Foam Concentrate) ANSUL Jet-X 2 3/4%, High Expansion Foam | 0% | No | 0 | No | No | No | Not Applicable | NO | NO | |
| Hanger 20471 Drum Storage | 65 | 2-55 gallon drums | Concentrate) | 0% | No | 0 | No | No | No | Not Applicable | NO | NO | |
| DES Crash Truck # 1 | 390 | Non-Stationary device | Likely Ansul 3%AFFF | less than 0.0001 % | No | less than 0.003 | No | No | No | YES | YES | YES | |
| DES Crash Truck # 2 | 390 | Non-Stationary device | Likely Ansul 3%AFFF | less than 0.0001 % | No | less than 0.003 | No | No | No | YES | YES | YES | |
| DES Crash Truck # 3 | 390 | Non-Stationary device | Likely Ansul 3%AFFF | less than 0.0001 % | No | less than 0.003 | No | No | No | YES | YES | YES | |
| DES Crash Truck # 4 | 400 | Non-Stationary device | Chemguard- 3% AFFF C301MS | less than 0.0001 % | No | less than 0.003 | No | No | No | YES | YES | YES | |
| DES Crash Truck # 5 | 130 | Non-Stationary device | Likely Ansul 3%AFFF | less than 0.0001 % | No | less than 0.001 | No | No | No | YES | YES | YES | |
| DES Trailer | 1000 | Non-Stationary device | Chemguard- 3% AFFF C301MS | less than 0.0001 % | No | less than 0.009 | No | No | No | YES | YES | YES | |

^{*} CBS registration is required only if the concentration of PFOA/S exceeds 1% or more by volume of one or more of the PFOA/S hazardous substances AND the stationary device stores more than 185 gallons (or 2,200 lbs in a non-stationary device).

^{**} The Hanger 2074 stationary tank is currently empty.

^{***} In accordance with NYSDEC's emergency rule, replacement foam may not contain a hazardous substance at a concentration that would release more than one pound when used. The foams currently in place are therefore considered regulatory compliant since there "use" would not exceed 1 pound.