FINAL Preliminary Assessment Report River Road Training Site, New Castle, Delaware

Perfluorooctanesulfonic Acid (PFOS) and Perfluorooctanoic Acid (PFOA) Impacted Sites ARNG Installations, Nationwide

July 2020

Prepared for:



Army National Guard Headquarters 111 S. George Mason Drive Arlington, VA 22204

UNCLASSIFIED

Table of Contents

Exec	utive \$	Summary1
1.	Intro	duction3
	1.1	Authority and Purpose
	1.2	Preliminary Assessment Methods
	1.3	Report Organization4
	1.4	Facility Location and Description
	1.5	Facility Environmental Setting4
		1.5.1 Geology
		1.5.2 Hydrogeology
		1.5.3 Hydrology
		1.5.4 Climate
		1.5.5 Current and Future Land Use
2.	Fire 7	Training Areas10
3.	Non-	Fire Training Areas
	3.1	HAZMAT Storage11
4.	Emer	rgency Response Areas13
5.	Adjad	cent Sources14
	5.1	Delaware City Refinery14
	5.2	Tybouts Corner Landfill Trust
	5.3	Mid-Atlantic Steel LLC
	5.4	Summit Steel, Inc14
	5.5	Atlas Welding & Fabrication, Inc14
	5.6	Delaware Sand and Gravel Landfill15
	5.7	Army Creek Landfill
6.	Prelir	minary Conceptual Site Model17
7.	Conc	lusions
	7.1	Findings18
	7.2	Uncertainties
	7.3	Potential Future Actions
8.	Refe	rences

Tables

Table 7-2No Suspected Release Areas

Figures

- Figure ES-1 Summary of Findings
- Figure 1-1 Facility Location
- Figure 1-2 Groundwater Features
- Figure 1-3 Surface Water Features
- Figure 3-1 Non-Fire Training Areas
- Figure 5-1 Adjacent Sources
- Figure 7-1 Summary of Findings

Appendices

- Appendix A Data Resources
- Appendix B Preliminary Assessment Documentation
 - B.1 Interview Records
 - B.2 Visual Site Inspection Checklists
 - B.3 Conceptual Site Model Information
- Appendix C Photographic Log

Acronyms and Abbreviations

°F	Degrees Fahrenheit
AECOM	AECOM Technical Services, Inc.
AFFF	aqueous film forming foam
AFW	Amec Foster Wheeler
AOI	Area of Interest
amsl	above mean sea level
ANG	Air National Guard
ARNG	Army National Guard
bgs	below ground surface
bmsl	below mean sea level
C&D	Chesapeake and Delaware
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CSM	conceptual site model
DEARNG	Delaware Army National Guard
DGS	Delaware Geological Survey
DO	Delaware Online
DoD	Department of Defense
DNREC	Delaware Department of Natural Resources and Environmental Control
DRBC	Delaware River Basin Commission
EDR™	Environmental Data Resources, Inc. [™]
FTA	fire training area
HA	USEPA's lifetime Health Advisory
HAZMAT	hazardous materials
IED	Installations & Environment Division
NCCDE	New Castle County Delaware Government
PA	Preliminary Assessment
PFAS	per- and poly-fluoroalkyl substances
PFOA	perfluorooctanoic acid
PFOS	perfluorooctanesulfonic acid
RRTS	River Road Training Site
SI	Site Inspection
SWAT	Special Weapons and Tactics
US	United States
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
USGS	United States Geological Survey

Executive Summary

The Army National Guard (ARNG) is performing Preliminary Assessments (PAs) and Site Inspections (SIs) for Perfluorooctanesulfonic acid (PFOS) and Perfluorooctanoic acid (PFOA) Impacted Sites at ARNG Facilities Nationwide. A PA for per and polyfluoroalkyl substances (PFAS)-containing materials was completed for River Road Training Site (RRTS; also referred to as the "facility") in New Castle, Delaware, to assess potential PFAS release areas and exposure pathways to receptors. RRTS is constructed on a parcel of land purchased by the US from private landowners in 1908. The performance of this PA included the following tasks:

- Reviewed available administrative and record documents and Environmental Data Resources, Inc. (EDR)[™] report packages to obtain information relevant to potential PFAS releases, such as: drinking water well locations, historical aerial photographs, Sanborn maps, and environmental compliance actions in the area surrounding the facility.
- Conducted a site visit on 5 August 2019 and completed visual site inspections at locations where PFAS-containing materials were suspected of being stored, used, or disposed;
- Interviewed current RRTS personnel, including environmental managers during the site visit.

No potential PFAS releases were identified at RRTS during the PA investigation. As a result, the exposure pathways to potential receptors are incomplete, and there are no Areas of Interest at the facility (**Figure ES-1**).

Delaware City Refinery, Tybouts Corner Landfill Trust, Mid-Atlantic Steel LLC, Summit Steel, Inc, and Atlas Welding & Fabrication, Inc are potential sources of PFAS adjacent to the facility. The fires at Delaware City Refinery in 2019 both required emergency response either from local fire departments or on-site fire response. Tybouts Corner Landfill Trust may have PFAS-containing materials which could have leeched to the surrounding environment in the area of RRTS. The remaining three potential adjacent sources are metals industries that could use PFAS-containing materials.

Based on the US Environmental Protection Agency (USEPA) Unregulated Contaminant Monitoring Rule 3 data, it was indicated that PFAS were detected in a public water system above the USEPA's lifetime Health Advisory level within 20 miles of the facility. PFAS analyses performed in 2016 had method detection limits that were higher than currently achievable. Thus, it is possible that low concentrations of PFAS were not detected during the UCMR3 but might be detected if analyzed today.



1. Introduction

1.1 Authority and Purpose

The Army National Guard (ARNG) G9 is the lead agency in performing *Preliminary Assessments* (*PAs*) and Site Inspections (SIs) for Perfluorooctanesulfonic acid (PFOS) and Perflorooctanoic acid (PFOA) at Impacted Sites at ARNG Facilities Nationwide. This work is supported by the United States (US) Army Corps of Engineers (USACE) Baltimore District and their contractor AECOM Technical Services, Inc. (AECOM) under Contract Number W912DR-12-D-0014, Task Order W912DR17F0192, issued 11 August 2017. The ARNG is assessing potential effects on human health related to processes at facilities that used per- and poly-fluoroalkyl substances (PFAS), primarily in the form of aqueous film forming foam (AFFF) released as part of firefighting activities, although other PFAS sources are possible. In addition, the ARNG is assessing businesses or operations adjacent to the ARNG facility (not under the control of ARNG) that could potentially be responsible for a PFAS release.

PFAS are classified as emerging environmental contaminants that are garnering increasing regulatory interest due to their potential risks to human health and the environment. PFAS formulations contain highly diverse mixtures of compounds. Thus, the fate of PFAS compounds in the environment varies. The regulatory framework at both federal and state levels continues to evolve. The US Environmental Protection Agency (USEPA) issued a lifetime Drinking Water Health Advisory (HA) for PFOA and PFOS in May 2016, but there are currently no promulgated national standards regulating PFAS in drinking water. In the absence of federal maximum contaminant levels, some states have adopted their own drinking water standards for PFAS; the state of Delaware does not currently have promulgated standards for PFAS in any environmental media.

This report presents the findings of a PA for PFAS-containing materials at River Road Training Site (RRTS; also referred to as the "facility") in New Castle, Delaware, in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), as amended, the National Oil and Hazardous Substances Pollution Contingency Plan (40 Code of Federal Regulations [CFR] Part 300), and Army requirements and guidance.

This PA documents potential locations where PFAS may have been released into the environment at RRTS. The term PFAS will be used throughout this report to encompass all PFAS chemicals being evaluated, including PFOS and PFOA, which are key components of AFFF.

1.2 Preliminary Assessment Methods

The performance of this PA included the following tasks:

- Reviewed available administrative record documents and Environmental Data Resources, Inc (EDR)[™] report packages to obtain information relevant to potential PFAS releases, such as: drinking water well locations, historical aerial photographs, Sanborn maps, and environmental compliance actions in the area surrounding the facility;
- Conducted a site visit on 5 August 2019 and completed visual site inspections (VSIs) at locations where PFAS-containing materials were suspected of being stored, used, or disposed;
- Interviewed current RRTS personnel including environmental managers during the site visit.

1.3 Report Organization

This report has been prepared in accordance with the USEPA *Guidance for Performing Preliminary Assessments under CERCLA* (USEPA 1991). The report sections and descriptions of each are as follows:

- **Section 1 Introduction:** identifies the project purpose and authority and describes the facility location, environmental setting, and methods used to complete the PA
- Section 2 Fire Training Areas: describes the fire training areas (FTAs) at the facility identified during the site visit
- Section 3 Non-Fire Training Areas: describes other locations of potential PFAS releases at the facility identified during the site visit
- Section 4 Emergency Response Areas: describes areas of potential PFAS release at the facility, specifically in response to emergency situations
- Section 5 Adjacent Sources: describes sources of potential PFAS release adjacent to the facility that are not under the control of ARNG
- Section 6 Preliminary Conceptual Site Model: describes the pathways of PFAS transport and receptors for the Areas of Interest (AOIs) and the facility
- Section 7 Conclusions: summarizes the data findings and presents the conclusions and uncertainties of the PA
- Section 8 References: provides the references used to develop this document
- Appendix A Data Resources
- Appendix B Preliminary Assessment Documentation
- Appendix C Photographic Log

1.4 Facility Location and Description

RRTS occupies 190.7 acres in New Castle, Delaware (**Figure 1-1**). The facility's eastern side is bounded by the Delaware River and the facility is located 3 miles southeast of the New Castle Airport. The nearest metropolitan area to RRTS is Wilmington, Delaware, 8.1 miles northeast of the facility. Properties surrounding RRTS are primarily zoned for single-family homes and suburban neighborhoods (New Castle County Delaware Government [NCCDE], 2018).

RRTS is located on a portion of land that, according to the deed provided by RRTS personnel, the Federal Government purchased from private landowners on 16 November 1908. Early activities for the site are unknown due to lack of documentation and the loss of Delaware ARNG (DEARNG) records (URS, 2015). RRTS has historically been used for training encampments, field exercises, and most prominently, live-fire exercises. The facility provides administrative, training and logistical support to the DEARNG, the New Castle City and County police, Special Weapons and Tactics (SWAT) teams, and military and paramilitary organizations (URS, 2015). Directly outside of the facility boundary are a park, a hunter safety training center, and residential neighborhoods. Access to the facility is via a guarded gate.

1.5 Facility Environmental Setting

The facility is located in northern New Castle County, Delaware, along the Delaware River, which flows south to the Delaware Bay. The facility is primarily green space consisting of wetlands and wooded areas. RRTS sits below sea level, and the eastern edge of the property is mostly wetlands that are subject to flooding from the river, while buildings and paved areas sit on the western side

of the property. RRTS is in a transition zone between the Delaware Bay, which has saline waters, and the freshwater Delaware River (URS, 2015). The facility is part of the Army Creek-Frontal Delaware River Watershed, where Army Creek, located to the facility's north, is the main drainage pathway to the Delaware river. On-site drainage pathways are to the wetlands and smaller creeks on-site that discharge into the Delaware River.

In the area of RRTS, the soil is classified as primarily loam. Shallower soils are mostly silt loam from 0-34 inches below ground surface (bgs), while the deeper soil is described as sandy loam from 34-60 inches bgs (EDR[™], 2019).

1.5.1 Geology

A geologic map of New Castle County, Delaware provides specific surficial geology of the RRTS area. The portion of land on which RRTS is located includes marsh deposits, the Scotts Corners Formation, and the Lynch Heights Formation (Delaware Geological Survey [DGS], 2005). As shown in **Figure 1-2**, data from the US Geological Survey (USGS) shows the primary rock types of the area are silt and sand. Marsh deposits, located on the eastern edge of the property bordering the Delaware River, mainly consist of organic-rich silty clay to clayey silt. The Scotts Corners Formation in the center of the property consists of coarse to fine sand that is often capped by 1-2 feet of sandy silt. Lastly, the Lynch Heights Formation is located on the western side of the property and consists of fine sand with discontinuous beds of coarse sand, gravel, silt, fine to very fine sand, and organic rich clayey silt to silty sand (DGS, 2005).

1.5.2 Hydrogeology

New Castle County, Delaware has two aquifers: the Columbia and Potomac. The Columbia aquifer is the primary surficial aquifer in New Castle County, Delaware but is in partial contact with the Potomac aquifer, allowing them to act as a hydrogeologic unit (Amec Foster Wheeler [AFW], 2019). An environmental investigation was conducted by the Air National Guard (ANG) approximately 3.5 miles from RRTS. Due to the proximity of this study, it is inferred that the hydrogeologic information provided would be similar to that at RRTS. The study indicated that the Columbia formation in this area is predominantly dry, with perched water tables present (AFW, 2019). The Potomac aquifer consists of two independent water bearing zones (Upper and Middle) in the laterally continuous sand bodies of the Potomac formation.

The Upper Potomac Aquifer lies in both the shallow and intermediate groundwater-bearing zones. The shallow zone extends from 0 to 30 feet above mean sea level (amsl), and there is no clear distinction between the surficial Columbia aquifer and the Upper Potomac aquifer. Separated from the shallow zone by a semi-confining layer of clay, the intermediate groundwater-bearing zone ranges from 1 to 20 feet thick, extends approximately 50 feet below mean sea level (bmsl), and is considered to be part of the Upper Potomac aquifer. Results of groundwater elevation data from a nearby investigation suggest that the shallow and intermediate zones are interconnected, as they show similar trends. Groundwater flow in both zones of the Upper Potomac Aquifer as well as the Columbia Aquifer is generally to the southeast (AFW, 2019) **(Figure 1-2)**.

In New Castle County, south of the Chesapeake and Delaware (C&D) Canal and approximately 7 miles south of the facility, nearly all drinking water is from groundwater provided by public and private wells. However, north of the canal in northern New Castle County, where RRTS is located, groundwater supplies only 30 percent of drinking water (DGS, 2019).

The Delaware Department of Natural Resources and Environmental Control (DNREC) reported that Artesian Water Company, a primary drinking water provider in the area, and the City of New Castle Municipal Services Commission detected PFAS in public water supply wells in the area of RRTS. The area of contamination is approximately 7 square miles and is bounded to the north by Interstate 295, the Delaware River to the east, Route 273 to the south, and Route 13 and New

Castle Airport to the west. This area of PFAS contamination is approximately 2.5 miles north of RRTS.

Four of Artesian Water Company's public water supply wells are between 0.2 and 0.7 miles north of the facility and south of the Army Creek Landfill and the Delaware Sand and Gravel Landfill (**Figure 1-2** and **5-1**). (USEPA, September 2019). Monitoring wells south of the adjacent Landfills tested positive for PFAS (USEPA, September 2019). The public water supply is treated for PFAS contamination by Artesian before distribution (DNREC, 2019); however, there are also 5 private domestic groundwater supply wells within 1 mile of the facility. Well locations shown on **Figure 1-2** are based on the EDR[™] report's Physical Setting Source Map and are approximate (**Appendix A**). According to interviewees, drinking water at RRTS is public and provided by Artesian Water Company.

Based on the USEPA Unregulated Contaminant Monitoring Rule 3 data, it was indicated that PFAS were detected in a public water system above the HA level within 20 miles of the facility (**Appendix A**). PFAS analyses performed in 2016 had method detection limits that were higher than currently achievable. Thus, it is possible that low concentrations of PFAS were not detected during the UCMR3 but might be detected if analyzed today.

1.5.3 Hydrology

Approximately 2 miles west of RRTS is the Christina River Basin, which extends from Pennsylvania through New Castle County, Delaware. The facility is located within the Army Creek-Frontal Delaware River Watershed, between Army Creek to the north and Red Lion Creek to the south (Figure 1-3). Both the Christina River Basin and the Army Creek Watershed are portions of the Delaware River Basin, which is characterized by dendritic interconnected rivers, streams, and wetlands, with outflow to the Delaware River (Figure 1-3). Surface water in the area of the basin where RRTS is located flows generally to the southeast. Due to the facility's eastern bound on the Delaware River, tidal wetlands occur in and adjacent to the facility grounds. Interviewee recollection also includes instances of flooding on-site, close to the river. On facility grounds, runoff flows southeast towards the wetlands and river (Figure 1-3).

A presentation from the Delaware River Basin Commission provides 2009 PFAS concentration data for media tested along the Delaware river. Results from samples closest to the facility, at river miles 50 and 68, found that PFAS have been detected in source water as well as ambient water (Delaware River Basin Commission [DRBC], 2013).

1.5.4 Climate

The climate at RRTS is humid continental. The Delaware Bay and Atlantic Ocean to the east and south and Chesapeake Bay to the west moderate temperature extremes in the winter and summer months. Although the extremes are lessened, the climate at RRTS is still continental, with hot summers, cold winters, and precipitation throughout the year (AFW, 2019). Mean annual temperature in nearby Wilmington is 54.95 degrees Fahrenheit (°F). The average annual high temperature for nearby Wilmington, Delaware is 64.1°F, and the average annual low temperature is 45.8°F. Annual precipitation for Wilmington is approximately 43 inches of rain and 19 inches of snowfall (US Climate Data, 2019).

1.5.5 Current and Future Land Use

RRTS resides on a portion of land purchased by the US Government in 1908 from private owners and used as a military training facility. The facility is currently used for administrative, training, and logistical support activities. Future land use is not anticipated to change.





L I I I I I I I Q.'Projects\ENV/GEARS\GEO\ARNG PFAS\900-CAD-GIS\920-GIS or Graphics\MXD\DE\River_Road_Training_Site\Fig_1-2_RRTS_Groundwater.mxd



2. Fire Training Areas

No FTAs were identified within RRTS during the PA through interviews. All fire training for individuals at RRTS is held at the Delaware State Fire School in New Castle, Delaware. It is unknown if training at the Fire School includes AFFF training. Firsthand knowledge of interviewees reaches back to approximately 1991, and there is no primary source information between 1969, the year the Department of Defense (DoD) started using AFFF, and 1991 (**Appendix A**).

3. Non-Fire Training Areas

In addition to FTAs, the PA evaluated areas where PFAS-containing materials may have been broadly used, stored, or disposed. This may include buildings with fire suppression systems, paint booths, AFFF storage areas, and areas of compliance demonstrations. Information on these features obtained during the PA are included in **Appedices A** and **B**. One non-FTA where fire extinguishers and hazardous chemicals are stored was identified during the PA. A description of the non-FTA is presented below, and the non-FTA is shown on **Figure 3-1**.

3.1 HAZMAT Storage

The hazardous materials (HAZMAT) storage unit for RRTS is located on the western side of the property. Geographic coordinates for the unit are 39°38'5.946"N; 75°36'35.989"W (Figure 3-1). According to interviewee knowledge, there is no AFFF fire suppression system for the HAZMAT storage unit. Photographic logs show a large dry chemical fire extinguisher attached to the side of the storage unit (Appendix C). This tank is installed with pipes supplying a deluge system for the unit. Additionally, interviewees do not recall AFFF extinguishers having been used or stored on RRTS property during their time at the facility. Upon visual inspection, extinguishers at the HAZMAT storage unit and around the property are all dry chemical units (Appendix C). These extinguishers are visually inspected annually by Hoopes Fire Prevention Inc. Due to the current and historic absence of AFFF extinguishers at this location, there is no suspected AFFF release at the storage unit.



Q:\Projects\ENV\GEARS\GEO\ARNG PFAS\900-CAD-GIS\920-GIS or Graphics\MXD\DE\River_Road_Training_Site\Fig_3-1_RRTS_Non-FTAs.mxd

4. Emergency Response Areas

No emergency response areas were identified at RRTS during the PA through interviews. Interviewees do not recall emergency response at the facility, and there is no documentation of an emergency response event (**Appendix A**).

5. Adjacent Sources

Five potential off-facility sources of PFAS located adjacent to RRTS, not under the control of ARNG, were identified during the PA through interviews and news reports. A description of each adjacent source is presented below, and the adjacent sources are shown on **Figure 5-1**.

5.1 Delaware City Refinery

Delaware City Refinery is located approximately 3.5 miles southwest of the facility (**Figure 5-1**). In both February and April of 2019, there were fires at the refinery. During the fire in February, flames were contained to the refinery with the help of local emergency response units (Delaware Online [DO], 2019). News reports did not mention the use of AFFF, and interviewees are unsure of what was used to control the fire. The fire in April was smaller and did not require outside emergency response from local fire departments. Though there is no definite information provided as to the use of AFFF in either of these emergency responses, AFFF is commonly used at refineries in the event of fuel related fires. As such, there is a possibility that AFFF was released during one or both of these occurrences, making the Delaware City Refinery a possible adjacent source of PFAS. Emergency Response personnel were not interviewed during the PA because the focus of the assessment was to evaluate potential PFAS related activities and sources at DEARNG properties.

5.2 Tybouts Corner Landfill Trust

Tybouts Corner Landfill Trust is located 2.6 miles west-southwest of the facility (**Figure 5-1**). Initially, this location housed a sand and gravel quarry until 1968 and was subsequently converted to a landfill (USEPA, 2019). The landfill was operational until 1971 and accepted municipal and household waste. In 1983, after it was determined that the landfill was the source of contamination in drinking water wells, it was added to CERCLA's national Priorities List. The landfill has since been capped and is monitored semi-annually, with reports ensuring the remedial efforts are, "protective of human health and the environment" (USEPA, 2019). Though there are remedial efforts in place at this site, PFAS-containing materials may have been disposed of in the landfill and may not have been properly contained during the process of remediation. PFAS were not known to be harmful at the time of the remedial action plan and were not taken into account during planning. It is possible that the landfill could be a potential adjacent source of PFAS.

5.3 Mid-Atlantic Steel LLC

Mid-Atlantic Steel LLC sits 0.3 miles northeast of RRTS. While there is no confirmation of the use of PFAS-containing materials at this steel fabrication plant, PFAS are commonly used in the metals and metals plating industries. As such, Mid-Atlantic Steel LLC is a possible adjacent source of PFAS. **Figure 5-1** shows the location of Mid-Atlantic Steel LLC.

5.4 Summit Steel, Inc

Summit Steel, Inc is located 1.4 miles northeast of RRTS (**Figure 5-1**). There is no confirmation of the use of PFAS-containing materials at this steel erecting company in New Castle, Delaware; however, materials containing PFAS are commonly used in metals industries. As a result, Summit Steel, Inc is a possible adjacent source of PFAS.

5.5 Atlas Welding & Fabrication, Inc

Atlas Welding & Fabrication, Inc is located 1.2 miles from RRTS (**Figure 5-1**). There is no confirmation of the use of PFAS-containing materials at this location; however, PFAS are often

used in metalworking industries. Therefore, Atlas Welding & Fabrication, Inc is considered a possible adjacent source of PFAS.

5.6 Delaware Sand and Gravel Landfill

The Delaware Sand and Gravel landfill is a 27-acre superfund site located 0.8 miles north of RRTS and is shown in **Figure 5-1** (USEPA, 2017). Formerly a sand and gravel quarry, the site was converted to a landfill and was operational from 1968 to 1976. The landfill consisted of four disposal areas, three of which held waste materials including hazardous substances in unlined gravel pits. The fourth area was used for temporary chemical waste storage where spillage of hazardous substances occurred (USEPA, 2017). The landfill housed 550,000 cubic yards of both municipal and industrial wastes, including 15,000 drums of chemical production, petroleum, and manufacturing liquids (USEPA, 2017). Contaminants leaking from this site were found in public groundwater supplies in 1971. Since that time, a slurry wall system was installed to prevent contaminants leaking to groundwater, the landfill was capped, and extraction wells were installed to capture and remove contaminants for transfer to the nearby wastewater treatment plant. PFOA and PFOS were detected in groundwater samples from the landfill's monitoring wells in 2013. Monitoring for PFAS began at the landfill in fall 2016 (**USEPA, 2017**). Because groundwater testing has shown PFAS contamination from the landfill, this location is considered an adjacent source of PFAS.

5.7 Army Creek Landfill

The Army Creek Landfill is a also a superfund site and former sand and gravel guarry and is located adjacent to the Delaware Sand and Gravel Landfill, which is immediately across Army Creek to the south of this site (Figure 5-1). It operated as an unlined landfill from 1960 to 1968. The Army Creek Landfill accumulated 1.9 million cubic yards of municipal and industrial waste during its time of operation (USEPA, September 2019). In 1971, contaminants were discovered in residential groundwater supply. In response, groundwater monitoring started at the Army Creek Landfill, a groundwater recovery system was installed to remove contaminated groundwater and prevent contamination in an Artesian Water company well field. In 1992, the landfill was capped, and a groundwater treatment plan was put in place between 1992 and 1993 (USEPA, September 2019). The plan consisted of the installation of a water treatment plant to remove contaminants from groundwater before discharging the water to Army Creek. Groundwater monitoring samples between 2013 and 2017 showed the presence of PFAS in groundwater downgradient from Army Creek Landfill (USEPA, September 2019). Artesian water company implemented a treatment system at their adjacent public water supply well field for PFOA and PFOS. The EPA requested that potentially responsible parties conduct groundwater investigations to determine if the Army Creek Landfill is a source of PFAS in the area's groundwater. The investigation is ongoing and is expected to be completed and summarized in a report in March, 2020 (USEPA, September 2019). The exact contents of the landfill are unknown and there is a potential for PFAS-containing substances to be in the landfill, therefore the Army Creek Landfill is a potential adjacent source of PFAS.



Q:\Projects\ENV\GEARS\GEO\ARNG PFAS\900-CAD-GIS\920-GIS or Graphics\MXD\DE\River_Road_Training_Site\Fig_5-1_RRTS_AdjacentSources.mxd

6. Preliminary Conceptual Site Model

Based on the PA findings, no PFAS release areas were identified at RRTS. A conceptual site model (CSM) identifies the three components necessary for a potentially complete exposure pathway: (1) source, (2) pathway, (3) receptor. If any of these elements are missing, the pathway is considered incomplete. In general, the potential PFAS exposure pathways are ingestion and inhalation. Human exposure via the dermal contact pathway may occur, and current risk practice suggests it is an insignificant pathway compared to ingestion; however, exposure data for dermal pathways are sparse and continue to be the subject of PFAS toxicological study. No known releases of PFAS have been identified at RRTS, therefore the exposure pathways to potential receptors are incomplete, and there are no AOIs at the facility.

7. Conclusions

This report presents a summary of available information gathered during the PA on the use of AFFF at RRTTS. The PA findings are based on the information presented in **Appendix A**, **Appendix B**, and **Appendix C**.

7.1 Findings

No AOIs related to potential PFAS release were identified at RRTS based on information gathered as part of this PA (**Figure 7-1**). Based on the absence of PFAS releases, evidence does not support current or former ARNG activities at the facility contributing to PFAS contamination in soil, groundwater, surface water, or sediment at RRTS or adjacent areas.

The following area, which is shown in **Table 7-1** and was discussed in **Section 3**, is determined to have no suspected release.

No Suspected Release Area	Used by	Rationale for No Suspected Release Determination
HAZMAT Storage Unit	RRTS	The storage unit has never contained AFFF or had an AFFF fire suppression system. The facility has only had dry-chemical extinguishers around the facility.

Table 7-1 No Suspected Release Areas

Several potential adjacent sources of PFAS exist near RRTS. These sources include Delaware City Refinery, Tybouts Corner Landfill Trust, Mid-Atlantic Steel LLC, Summit Steel, Inc, and Atlas Welding & Fabrication, Inc. The fires at Delaware City Refinery in 2019 both required emergency response either from local fire departments or on-site fire response. Though it is unknown if AFFF were used to extinguish these fires, it is commonly used at refineries for fire-fighting purposes. Tybouts Corner Landfill Trust may have PFAS-containing materials that could have leeched to the surrounding environment near RRTS. The remaining three potential adjacent sources are in the metals industry and could use PFAS-containing materials

The summary of findings is presented in Figure 7-1.

7.2 Uncertainties

A number of information sources were investigated during this PA to determine the potential for PFAS-containing materials to have been present, used, or released at the facility. Historically, documentation of PFAS use was not required because PFAS were considered benign. Therefore, records were not typically kept by the facility or available during the PA on the use of PFAS in training, firefighting, other non-traditional activities, or on its disposition. There is no historically documented use of PFAS-containing materials at RRTS.

The conclusions of this PA are based on all available information, including: previous environmental reports, EDRs[™], observations made during the VSI, and interviews. Interviews of personnel with direct knowledge of a facility generally provided the most useful insights regarding a facility's historical and current PFAS-containing materials. Direct personnel knowledge of the facility spans from 1991 to present. Sometimes, the provided information was vague. Gathered information has a degree of uncertainty due to the absence of written documentation, the limited number of personnel with direct knowledge due to staffing changes, the time passed since PFAS were first used (1969 to present), and a reliance on personal recollection. Inaccuracies may arise

in potential PFAS release locations, dates of release, volume of releases, and the concentration of AFFF used. There is also a possibility the PA has missed a source of PFAS, as the science of how PFAS may enter the environment continually evolves.

In order to minimize the level of uncertainty, readily available data regarding the use and storage of PFAS were reviewed, current personnel were interviewed, multiple persons were interviewed for the same potential source area, and potential source areas were visually inspected.

7.3 Potential Future Actions

Interviews with RRTS personnel indicate that current and historic DEARNG activities have not resulted in PFAS releases at RRTS. Based on the absence of AFFF and PFAS-containing materials at RRTS, there were no AOIs identified at the facility during the PA.

The DEARNG RRTS will not move forward in the CERCLA process.



Q:\Projects\ENV\GEARS\GEO\ARNG PFAS\900-CAD-GIS\920-GI or Graphics\MXD\DE\River_Road_Training_Site\Fig_7-1_RRTS_S

8. References

- Amec Foster Wheeler (AFW). 2019. *Final Report FY16 Phase 1 Regional Site Inspections for Per and Poly Fluoralkyl Substances Volume I of XII: Delaware 166th Airlift Wing, Delaware Air National Guard, New Castle Air National Guard Base, New Castle, Delaware.*
- Delaware Department of Natural Resources and Environmental Control (DNREC). *New castle County Airport Area Community Fact Sheet.* (Accessed September 2019). http://www.dnrec.delaware.gov/dwhs/SIRB/Documents
- Delaware Geological Survey (DGS). 2019. *Hydrologic Information for Delaware.* (Accessed September 2019). <u>https://www.dgs.udel.edu/water-resources</u>
- Delaware Geological Survey (DGS). 2005. *Geologic Map of New Castle County, Delaware*. (Accessed October 8, 2019). <u>https://www.dgs.udel.edu/datasets/dgs-geologic-map-no-13-new-castle-county-dataset</u>
- Delaware Online (DO). 2019. *Delaware City Refinery Fire: Residents Report Hearing Loud Rumbling, Horns.* (Accessed December 12, 2019). <u>https://www.delawareonline.com/story/news/local/2019/02/03/fire-delaware-city-refinery/2762056002/</u>
- Delaware River Basin Commission (DRBC). 2013. Contaminants of Emerging Concern in the Tidal Delaware River. (Accessed November 1, 2019). <u>https://www.nj.gov/drbc/library/documents/contaminants-of-emergingconcernAug2013rev.pdf</u>

Environmental Data Resources (EDR)[™]. 2019. *The EDR[™] Radius Map Report with GeoCheck*.

- New Castle County Delaware Government (NCCDE). 2018. Zoning Map Index: Zone 59. (Accessed September 2019). <u>http://zoningmaps.nccde.org/</u>
- URS Group, Inc (URS). 2015. Remedial Investigation Report: River Road Training Site Delaware Army national Guard New Castle, Delaware.
- U.S. Climate Data. 2019. *Climate Wilmington Delaware*. (Accessed August 2019). <u>https://www.usclimatedata.com/climate/wilmington/delaware/united-states/usde0055</u>
- U.S. Environmental Protection Agency (USEPA), 1991. *Guidance for Performing Preliminary Assessments under CERCLA*. EPA/540/G91/013.
- U.S. Environmental Protection Agency (USEPA), 2017. Amendment No. 2 to the 1988 Record of Decision for the Delaware Sand & Gravel Landfill Superfund Site New Castle, Delaware. (Accessed February 2019). https://semspub.epa.gov/work/03/2247185.pdf
- U.S. Environmental Protection Agency (USEPA), September 2019. *Fifth Five-Year Review Report* for Army Creek Landfill Superfund Site New Castle County, Delaware. (Accessed February 2019). <u>https://semspub.epa.gov/work/03/2282857.pdf</u>
- U.S. Environmental Protection Agency (USEPA). 2019. *Tybouts Corner Landfill New Castle, DE*. (Accessed December 3, 2019). <u>https://cumulis.epa.gov/supercpad/SiteProfiles/index.cfm?fuseaction=second.Cleanup&id=0</u> <u>300035#bkground</u>

Appendix A Data Resources Data Resources will be provided separately on CD. Data Resources for River Road Training Site includes:

RRTS Previous Site Investigations

- 2012, Contaminants of Emerging Concern in the Tidal Delaware River: Pilot Monitoring Survey 2007-2009
- 2014, RRTS Military Munitions Response Program: Remedial Investigation Work Plan/Uniform Federal Policy-Quality Assurance Project Plan, March 2014
- 2015, RRTS Military Munitions Response Program: Remedial Investigation Report, April 2015
- 2019, FY16 Phase 1 Regional Site Inspections For Perfluorinated Compounds: Delaware Air National Guard – 166th Airlift Wing, New Castle Air National Guard Base, New Castle, Delaware, March 2019
- Delaware Department of Natural Resources and Environmental Control's New Castle County Airport Area Fact Sheet, PFOS/PFOA Detected in Ground Water from New Castle Public Wells

RRTS Site Background Documents

- 1998, New Castle County, Delaware Government Zoning Map Index: Zone 59
- 2005, USGS Geologic Map of New Castle County, Delaware, Kelvin W. Ramsey, 2005
- 2017, USEPA Amendment No. 2 to the 1988 Record of Decision for the Delaware Sand & Gravel landfill Superfund Site, New Castle, Delaware, 2017
- 2019, USEPA Fifth Five-Year Review Report for Army Creek Landfill Superfund Site New Castle County, Delaware, September 2019
- UCMR3 Summary Table

RRTS Site Property Documents

• 1908, RRTS Deed, November 16, 1908

Environmental Data Resources, Inc.[™] Reports

- 2019, Aerial Photo Decade Package, Environmental Data Resources, Inc., August 27, 2019
- 2019, Historic Aerials Photo Package, Environmental Data Resources, Inc, August 27, 2019
- 2019, Certified Sanborn Map Report, Environmental Data Resources, Inc., August 26, 2019
- 2019, Radius Map Report with Geocheck, Environmental Data Resources, Inc., August 26, 2019

Appendix B Preliminary Assessment Documentation

Appendix B.1 Interview Records

PA Interview Questionnaire - Environmental Manager

Facility: RRTS Interviewer: Date/Time: <u>8/5/19</u>

Tit Ph En	erviewee: le: Environmental Manager one Number: mail: Roles or activities with the Facility/years work 28 years, 10 years in ev	Can your name role be used in the PA Report? (Yor N Can you recommend anyone we can interview? Y or N sing at the Facility. nvironmental office
2.	Where can I find previous facility ownership is Provided by DEARNG Rea	
3.		cilities) None-No PFAS used
4.	Fill out CSM Information worksheet with the	Environmental Manager.
5.		FF dispensing systems or fire suppression systems? quirements? What is the frequency of testing the Built" drawings for the buildings? Sofer sprinkler system

PA	Interview	Questionnaire	- Environmental	Manager
----	-----------	---------------	-----------------	---------

Facility: RRTS

Interviewer:	
Date/Time:	

6.	Are fire suppression systems currently charged with AFFF or have they been retrofitted for use of high expansion foam? If retrofitted, when was that done?
	No AFFF FSS
7.	How is AFFF procured? Do you have an inventory/procurement system that tracks use?
	N/A
8.	What type of AFFF has been/is being used (3%, 6%, Mil Spec Mil-F-24385, High Expansion)? Manufacturer (3M, Dupont, Ansul, National Foam, Angus, Chemguard, Buckeye, Fire Service Plus)? N/A
9.	Where is the AFFF stored? How is it stored (tanks, 55-gallon drums, 5-gallon buckets)? What size are the storage tanks? Is the AFFF stored as a mixed solution (3% or 6%) or concentrated material?
10	. How many FTAs are/were on this facility and where are they? Locate on a map. How many FTAs are active and inactive? For inactive FTAs, when was the last time that fire training using AFFF was conducted at them? No fire training on the facility

PA Interview Questionnaire - Environmental Manager **Facility:** Interviewer: Date/Time: 11. When a release of AFFF occurs during a fire training exercise, now and in the past, how is the AFFF cleaned and disposed of? Were retention ponds built to store discharged AFFF? Was the AFFF trickled to the sanitary sewer or left in the pond to infiltrate? 41(1 12. Can you recall specific times when city, county, and/or state personnel came on-post for training? If so, please state which state/county agency or military entity? Do you have any records, including photographs to share with us? None-no fire training at the facility. 13. Did military routinely or occasionally fire train off-post? List the units that you can recall used/trained at various areas. Yes, units/personnel would fire train at DE fire academy in new castle, DE. 14. Did individual units come with their own safety personnel, did they also bring their own AFFF? Was training with AFFF part of these exercises? How were emergencies handled under these circumstances? Fire academy provided materials, it is inknown whether AFFF is used during exercises at fire academy. 15. Are there specific emergency response incident reports (i.e., aircraft or vehicle crash sites and fires)? If so, may we please copy these reports? Who (entity) was the responder? None

Facility: KRTS Interviewer: Date/Time: 16. Do you have records of fuel spill logs? Was it common practice to wash away fuel spills with AFFF? Is/was AFFF used as a precaution in response to fuel releases or emergency runway landings to prevent fires? None. Machinery is fueled off-site. 17. Was AFFF used for forest fires or fire management on-post/off-post? If so, please describe what happened and who was involved? Not that interviewee is a wave of 18. Are there mutual aid/use agreements between county, city, and local fire department? Please list, even if informal. If formalized, may we have a copy of the agreement? Local FD are to respond to emergencies at RRTS 19. Can you provide any other locations where AFFF has been stored, released, or used (i.e. hangars, buildings, fire stations, firefighting equipment testing and maintenance areas, emergency response sites, storm water/surface water, waste treatment plants, and AFFF ponds)? 20. Are you aware of any other creative uses of AFFF? If so, how was AFFF used? What entities were involved? No creative Uses.

PA Interview Questionnaire - Environmental Manager

PA Interview Questionnaire - Environmental Manager	Facility: RRTS
	Interviewer: Date/Time:
21. Are there past studies you are aware of with environmental information groundwater/soil types, etc., such as Integrated Cultural Resources In Natural Resources Management Plans?	tion on plants/animals/ Management Plans or Integrate
Yes, remedial investigation for RRTS.	
22. What other records might be helpful to us (environmental compliance record) and where can we find them? None provided	e, investigation records, admir
23. Do you have or did you have a chrome plating shop on base? What chrome plating shop?	at were/are the years of opera
No chrome plating shop	
24. Do you know whether the shop has/had a foam blanket mist suppre hood for emissions control? If foam blanket mist suppression was stored, mixed, applied, etc.?	ession system or used a fume used, where was the foam
NIA	
5. How is off-spec AFFF disposed (used for training, turned in, or given applicable, do you know the name of the vendor that removes off-spec the manifest or B/L?	to a local Fire Station)? If AFFF? Do you have copies o
Alu	

٢

Facility:<u><u><u>R</u><u>R</u>TS</u> Interviewer:<u>____</u> Date/Time:<u>____</u></u>

- Auto Foreman (interviewing him next)	26. Do you recommend anyone else we can interview? If so, do you have contact information for them?				
	- Auto Foreman (interviewing him next)				

Appendix B.2 Visual Site Inspection Checklists
Visual Site Inspection Checklist

Names(s) of people p	erforming VSI:
	Recorded by:
	ARNG Contact:
	Date and Time: 8/5/19
Method of visit (walking, dri	ving, adjacent): Walking
Source/Release Information	
<u>Site Name / Area Name / Unique ID:</u>	River Road Training Site
<u>Site / Area Acreage:</u>	190.7
Historic Site Use (Brief Description):	Private property until 1908-Purchased by govt.
Current Site Use (Brief Description):	After 1905 - Military training site Administrative, training, logistical support
Physical barriers or access restrictions:	Guurded entrance
1. Was PFAS used (or spilled) at the site/ard 1a. If yes, document	ea? Y(N) how PFAS was used and usage time (e.g., fire fighting training 2001 to 2014):
2. Has usage been documented? 2a. If yes, keep a reco	ord (place electronic files on a disk):
3. What types of businesses are located near 3a. Indicate what bus	the site? Industrial Commercial / Plating / Waterproofing / Residential
4. Is this site located at an airport/flightline? 4a. If yes, provide a d	description of the airport/flightline tenants:

.

Other Significant Site Feat	ures:
1. Does the facility have a fir	
	yes, indicate which type of AFFF has been used:
1b. If	yes, describe maintenance schedule/leaks:
1c. If	yes, how often is the AFFF replaced:
1d. If	yes, does the facility have floor drains and where do they lead? Can we obtain an as built drawing?
10.11	
Transport / Pathway In	formation
Migration Potential:	
1. Does site/area drainage flo	
<u>1a. II</u>	so, note observation and location:
FL	ous east to Delaware river (runoff)
2. Is there channelized flow y	so, please note observation and location: Wosh rack, drains, waste used to go to
<u></u> 2a. 11	so, please note observation and rocation. Volty 10 cc, 01 with, Volty 10 color of 30 ro
PP	ch field, now on public sewer(since ~2004)
	g water wells located near the site?
5	so, please note the location:
<u>Ja. 11</u>	so, prease note the rotation.
T	n figure 1-2
4. Are surface water intakes	so, please note the location: Eastern side of facility bounded by
<u>+a. 11</u>	so, please note the location. Costern sille of locating both loco of
Nr	River Contraction and Later and Contraction
	River. Creeks + wetland also on facility
5. Can wind dispersion infor	
<u>5a. 11</u>	so, please note and observe the location.
	<i>K</i>
6. Does an adjacent non-ARI	
6a. If	so, please note the source and location.
	rere is a plume by New-castle airport
6b. W	ill off-site reconnaissance be conducted? Y / N

Visual Survey Inspection Log

Significant Topographical Features:	
1. Has the infrastructure changed at the site/	area? Y / 🕥
1a. If so, please descr	ibe change (ex. Structures no longer exist):
2. Is the site/area vegetated?	(x) N
2a. If not vegetated, b	oriefly describe the site/area composition:
3. Does the site or area exhibit evidence of e	
3a. If yes, describe the	e location and extent of the erosion: Wetlands on eastern side a
property or	re subject to erosion.
4. Does the site/area exhibit any areas of pon	
4a. If yes, describe the	e location and extent of the ponding: bastern edge can get
ponded water	r. Creekrako flow through property
Receptor Information	J
1. Is access to the site restricted?	
1a. If so, please note t	o what extent: Guarded entry
2. Who can access the site?	Site Workers / Construction Workers / Trespassers/ Residential / Recreational
	Users / Ecological y, note any not covered above:
za. Chere an that appr	y, note any not covered above.
3. Are residential areas located near the site?	(ŶYN
3a. If so, please note th	
0	.05 mi NW
4. Are any schools/day care centers located n	
	he location/distance/type:
2.2	omi NW
5. Are any wetlands located near the site?	Ø/N
	he location/distance/type:
2-00	ite. Eastern side.

Appendix B.3 Conceptual Site Model Information

Preliminary Assessment – Conceptual Site Model Information

Site Name: Riv	er Road Training Site
Why has this loca	tion been identified as a site? Potential of AFFF use at this been identified.
Are there any oth	er activities nearby that could also impact this location? Yes - land fill,
metal indu	istries
Training Events	
Training Events	vents with AFFF occurred at this site? No
If so, how often?	NIA
in do, now offen:	
How much materia	NVA sussed Is it documents to NVA
Identify Potential water flow, groundy	was used? Is it documented? NA Pathways: Do we have enough information to fully understand over land surface vater flow, and geological formations on and around the facility? Any direct
Identify Potential	Pathways: Do we have enough information to fully understand over land surface vater flow, and geological formations on and around the facility?
Identify Potential I water flow, groundy pathways to larger y Surface Water:	Pathways: Do we have enough information to fully understand over land surface vater flow, and geological formations on and around the facility? Any direct vater bodies?
Identify Potential I water flow, groundy pathways to larger y Surface Water: Surface water flow o	Pathways: Do we have enough information to fully understand over land surface vater flow, and geological formations on and around the facility? Any direct vater bodies?
Identify Potential 1 water flow, groundy pathways to larger y Surface Water: Surface water flow of Average rainfall?	Pathways: Do we have enough information to fully understand over land surface vater flow, and geological formations on and around the facility? Any direct vater bodies?
Identify Potential I water flow, groundy pathways to larger v Surface Water: Surface water flow o Average rainfall? Any flooding during	Pathways: Do we have enough information to fully understand over land surface vater flow, and geological formations on and around the facility? Any direct vater bodies? <u>Hirection? SE</u> <u>~43:0</u> rainy season? Yes, we lond flooding
Identify Potential I water flow, groundy pathways to larger y Surface Water: Surface water flow of Average rainfall? Any flooding during Direct or indirect pa	Pathways: Do we have enough information to fully understand over land surface vater flow, and geological formations on and around the facility? Any direct vater bodies? <u>Hirection? SE</u> <u>~43:0</u> rainy season? Yes, we lond flooding hway to ditches? No
Identify Potential I water flow, groundy pathways to larger y Surface Water: Surface water flow of Average rainfall? Any flooding during Direct or indirect par	Pathways: Do we have enough information to fully understand over land surface water flow, and geological formations on and around the facility? Any direct water bodies? <u>Hirection? SE</u> <u>~43:0</u> rainy season? Yes, we lond flooding hway to ditches? No hway to larger bodies of water? Direct - DE River
Identify Potential I water flow, groundy pathways to larger y Surface Water: Surface water flow of Average rainfall? Any flooding during Direct or indirect par Direct or indirect par Does surface water p	Pathways: Do we have enough information to fully understand over land surface vater flow, and geological formations on and around the facility? Any direct vater bodies? <u>Hirection? SE</u> <u>~43:0</u> rainy season? Yes, we lond flooding hway to ditches? No
Identify Potential I water flow, groundy pathways to larger w Surface Water: Surface water flow of Average rainfall? Any flooding during Direct or indirect par Direct or indirect par Direct or indirect par Does surface water p Any impoundment a	Pathways: Do we have enough information to fully understand over land surface vater flow, and geological formations on and around the facility? Any direct vater bodies? <u>Hirection? SE</u> <u>~43:0</u> <u>rainy season? Yes, wetland flooding</u> <u>hway to ditches? No</u> <u>hway to larger bodies of water? Direct - DE River</u> <u>bodies of water? Direct - DE River</u>

Preliminary Assessment – Conceptual Site Model Information

Groundwater:

Gioundwater.
Groundwater flow direction? SE
Depth to groundwater? $\sim O-3OFF$ and
Uses (agricultural, drinking water, irrigation)? Public drinking H2O
Any groundwater treatment systems? Pub. Water company treats groundwater
Any groundwater monitoring well locations near the site? $\sqrt{e\varsigma}$
Is groundwater used for drinking water? Yes
Are there drinking water supply wells on installation?
Do they serve off-post populations? No
Are there off-post drinking water wells downgradient
5
Waste Water Treatment Plant:
Has the installation ever had a WWTP, past or present?
If so, do we understand the process and which water is/was treated at the plant?
Do we understand the fate of sludge waste? N/A
Is surface water from potential contaminated sites treated? Not from this site.
Equipment Rinse Water
1. Is firefighting equipment washed? Where does the rinse water go?
to the NUT of a second a tost of 2. Are not zeles cleaned after
2. Are nozzles tested? How often are nozzles tested? Where are nozzles tested? Are nozzles cleaned after use? Where does the rinse water flow after cleaning nozzles?
use? where does the thise water new unter creating at
3. Other?

Preliminary Assessment – Conceptual Site Model Information

Identify Potential Receptors:

No history of AFFF/PFAS on site

Construction Worker No

Recreational User No

Residential No

Site Worker

Child No

Ecological No

Note what is located near by the site (e.g. daycare, schools, hospitals, churches, agricultural, livestock)?

Documentation

Ask for Engineering drawings (if applicable).

Has there been a reconstruction or changes to the drainage system? When did that occur?

Appendix C Photographic Log



Army National Guard, Preliminary Assessment for PFAS	River Road Training Site	New Castle, Delaware
Photograph No. 3 Description: Oil/water separator is underground, approximately where the white shed in this photograph is located. Photo Date: 8/5/2019		
Photograph No. 4 Description: HAZMAT Materials Storage Shed with a dry chem fire extinguisher attached to the side.		
Photo Date: 8/5/2019		

APPENDIX C – Photogra	iphic Log	
Army National Guard, Preliminan Assessment for PFAS		New Castle, Delaware
Photograph No. 5		1
Description: Dry chem Fire Extinguisher kept on side of the HAZMAT		
storage shed. Photo Date: 8/5/2019		
Photograph No. 6 Description:	Hausiant I have a	
Label from extinguisher in the previous photograph. It is a Pyro Chem PCL 75 ABC dry chem extinguisher. Photo Date: 8/5/2019		

APPENDIX C – Pho	otographi	ic Log		
Army National Guard, Pr Assessment for PF		River Road Traini	ing Site	New Castle, Delaware
Photograph No. 7 Description: Handheld CO2 fire extinguisher stored outdoors at RRTS. Photo Date: 8/5/2019			Do tor	