FINAL
Preliminary Assessment Report
Army Aviation Support Facility #3
Tennessee

Perfluorooctane-Sulfonic Acid (PFOS) and Perfluorooctanoic Acid (PFOA) Impacted Sites
ARNG Installations, Nationwide

December 2018

Prepared for:

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Acronyms and Abbreviations

AECOM	AECOM Technical Services, Inc.
AASF	Army Aviation Support Facility
AFFF	aqueous film forming foam
amsl	above mean sea level
AOI	area of interest
ARNG	Army National Guard
ARNG-ILE	Army National Guard Environmental Programs Division
bgs	Below ground surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CSM	conceptual site model
CW5	Chief Warrant Officer 5
FTA	fire training area
IED	Installations and Environment Division
MCFD	Madison County Fire Department
MSAFD	McKellar-Sipes Airport Fire Department
PA	Preliminary Assessment
PFAS	per- and poly-fluoroalkyl substances
PFOA	perfluorooctanoic acid
PFOS	perfluorooctanesulfonic acid
SI	Site Inspection
SGT	Sergeant
TNARNG	Tennessee Army National Guard
US	United States
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
WWTP	waste water treatment plant

Executive Summary

The United States (US) Army Corps of Engineers (USACE) Baltimore District on behalf of the Army National Guard (ARNG)-Installations & Environment Division (IED), Cleanup Branch contracted AECOM Technical Services, Inc. (AECOM) to perform *Preliminary Assessments (PAs) and Site Inspections (SIs) for Perfluorooctanesulfonic acid (PFOS) and Perfluorooctanoic acid (PFOA) Impacted Sites at ARNG Facilities Nationwide*. 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.

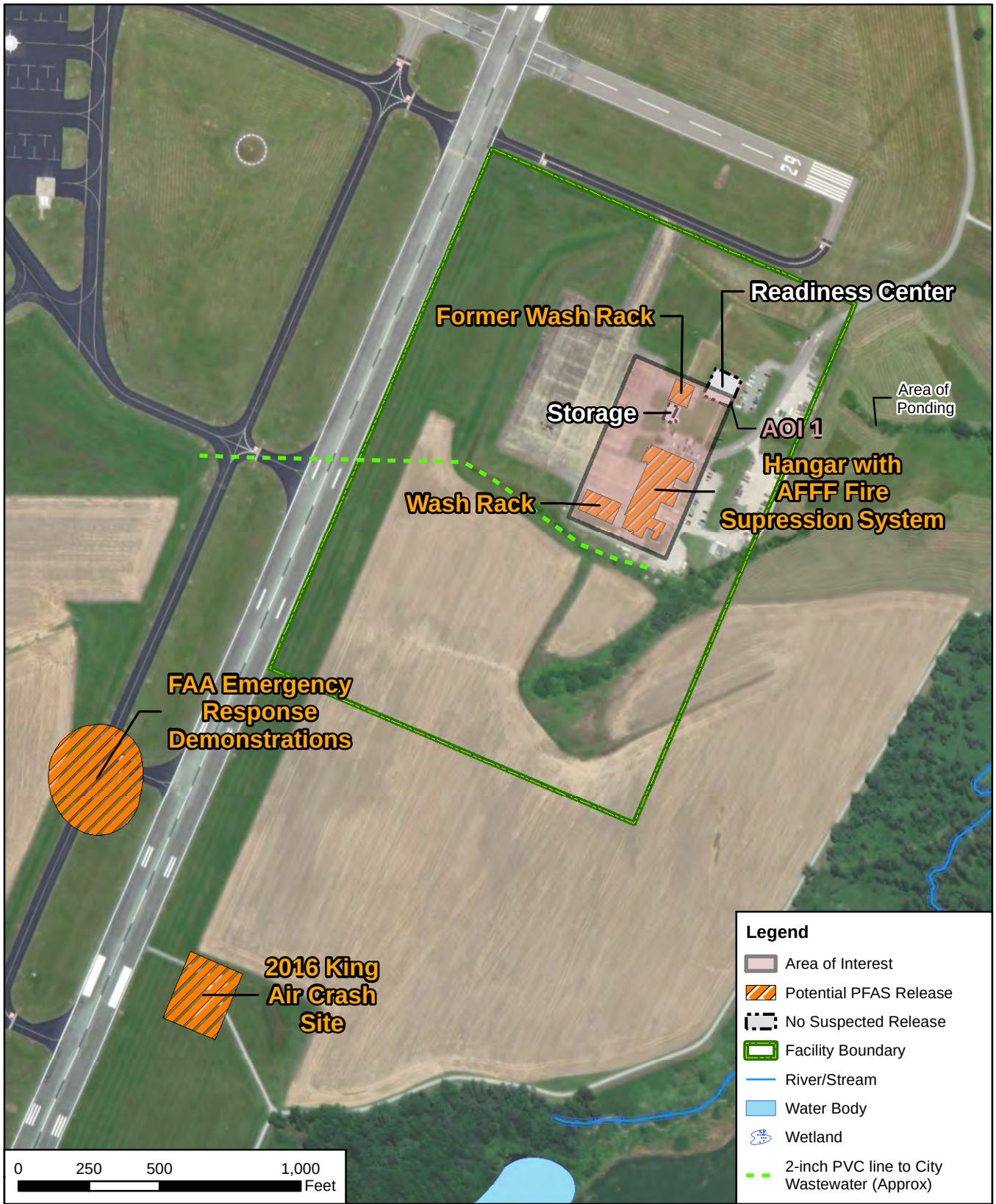
AECOM completed a PA for PFAS at Army Aviation Support Facility # 3 (AASF#3) in Madison County, Tennessee, to assess potential PFAS release areas and exposure pathways to receptors. The performance of this PA included the following tasks:

- Reviewed data resources to obtain information relevant to suspected PFAS releases
- Conducted a 1-day site visit on 23 May 2018
- Interviewed personnel associated with AASF#3 activities during the site visit including AASF#3 Logistics Management Officer/Chief Warrant Officer 5 (CW5) and AASF#3 Fire Marshal Sergeant (SGT) (both interviewees on site 2003-2018)
- Completed visual site inspections at known or suspected PFAS release locations and documented with photographs
- Interviewed adjacent facility personnel after the site visit, including Fire Chief of McKellar-Sipes Airport Fire Department (since 1998) and Fire Chief of Madison County Fire Department (since 1983)
- Developed a conceptual site model (CSM) to outline the potential release, pathway, and receptors of PFAS for AASF #3

Multiple suspected PFAS releases were identified during the PA as described below. Due to their close proximity, these releases constitute a single area of interest (AOI) identified at AASF#3. The AOI is shown in **Figure ES-1** and summarized below.

Area of Interest	Name	Used by	Release Dates
AOI 1	Release during replacement of torn AFFF storage tank bladder (approximately 300 gallons), discharged to hangar floor drain/oil water separator (OWS)	TNARNG	2006
	Releases during annual AFFF suppression system testing (approximately 50 gallons total), discharged to hangar floor drain/OWS	TNARNG	2003-2015
	Releases during AFFF fire extinguisher testing/training (hand held and mobile carts) at the former wash rack and current wash rack building; discharged to respective drains/OWSs	TNARNG	1997-2003 (former wash rack) 2003-2016 (current wash rack building)

Based on the reported AFFF release at this AOI, there is potential for exposure to PFAS contamination in subsurface soil to site and construction workers via inhalation and in groundwater to residents via ingestion. The CSM for VTS-S is shown on **Figure ES-2**.



CLIENT	ARNG			
NOTES	Preliminary Assessment for PFAS at Jackson AASF #3, TN			
REVISED	11/1/2018	GIS BY	MS	11/1/2018
SCALE	1:6,000	CHK BY	SS	11/1/2018
Base Map: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,		PM	RG	11/1/2018

Summary of Findings

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Figure ES-1

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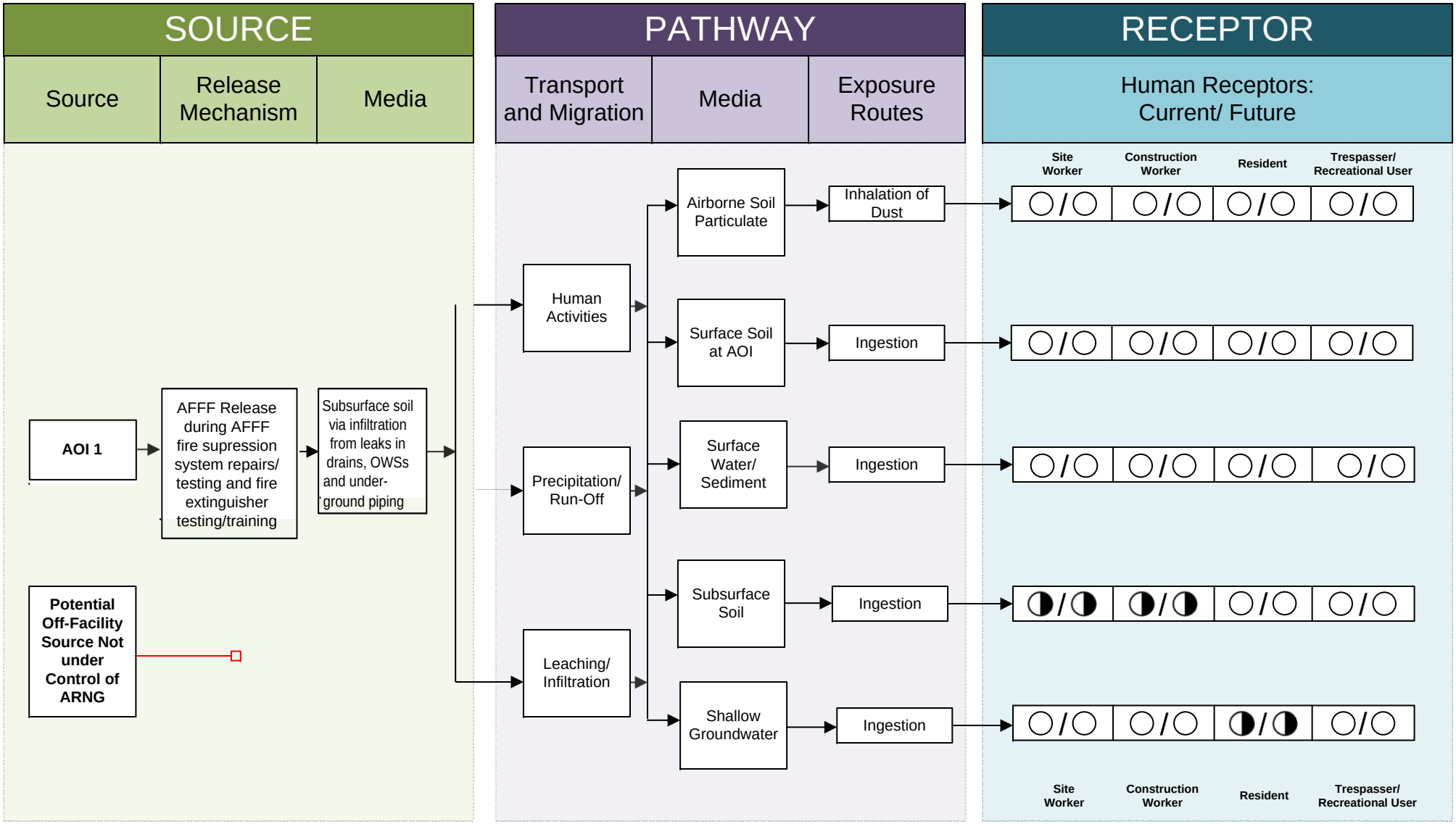


LEGEND

- Flow-Chart Stops
- Flow-Chart Continues
- Partial / Possible Flow
- Incomplete Pathway
- Potentially Complete Pathway
- Complete Pathway

Figure ES-2

Conceptual Site Model

AOI 1 AFFF Release in Hangar or Current/Former Wash Racks at AASF# 3

1. Introduction

1.1 Authority and Purpose

The United States (US) Army Corps of Engineers (USACE) Baltimore District on behalf of the Army National Guard (ARNG)-Installations & Environment Division (IED), Cleanup Branch contracted AECOM Technical Services, Inc. (AECOM) to perform *Preliminary Assessments (PAs) and Site Inspections (SIs) for Perfluorooctanesulfonic acid (PFOS) and Perfluorooctanoic acid (PFOA) Impacted Sites at ARNG Facilities Nationwide* under Contract Number W912DR-12-D-0014, Task Order W912DR17F0192, issued 11 August 2017, and Modification 01 issued 30 September 2017. The ARNG is assessing potential effects on human health related to processes at their facilities that used per- and poly-fluoroalkyl substances (PFAS), primarily releases of aqueous film forming foam (AFFF) although other sources of PFAS 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. The regulatory framework at both federal and state levels continues to evolve. The U.S. Environmental Protection Agency (USEPA) issued Drinking Water Health Advisories 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.

This report presents findings of a PA for PFAS at Army Aviation Support Facility (AASF) #3 in Jackson, Madison County, Tennessee, 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 Part 300), and USACE requirements and guidance.

This PA documents the locations where PFAS are currently stored and reportedly released into the environment at AASF#3. 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 data resources to obtain information relevant to suspected PFAS releases
- Conducted a 1-day site visit on 23 May 2018
- Interviewed personnel associated with AASF#3 activities during the site visit including AASF#3 Logistics Management Officer/Chief Warrant Officer 5 (CW5) and AASF#3 Fire Marshal Sergeant (SGT) (both interviewees on site 2003-2018).
- Completed visual site inspections at known or suspected PFAS release locations and documented with photographs
- Interviewed adjacent facility personnel after the site visit, including Fire Chief of McKellar-Sipes Airport Fire Department (since 1998) and Fire Chief of Madison County Fire Department (since 1983)

- Developed a conceptual site model (CSM) to outline the potential release, pathway, and receptors of PFAS for AASF #3

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:

- **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 potential or suspected fire training areas (FTAs) at the facility identified during the site visit
- **Section 3** – **Non-Fire Training Areas:** describes other locations of potential or suspected PFAS releases at the facility identified during the site visit
- **Section 4** – **Emergency Response Areas:** describes areas of suspected or potential AFFF release at the facility, specifically in response to emergency situations
- **Section 5** – **Adjacent Sources:** describes sources of PFAS release adjacent to the facility that are not under the control of ARNG
- **Section 6** – **Conceptual Site Model:** describes the pathways of PFAS transport and receptors at the AOI
- **Section 7** – **Conclusions:** summarizes the data findings and presents the conclusions 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

AASF#3, home to the 230th Air Cavalry Squadron of the Tennessee Army National Guard (TNARNG), is located at the McKellar-Sipes Regional Airport (**Figure 1-1**) in Madison County Tennessee, approximately 6 miles west of the City of Jackson, and approximately 71 miles northeast of Memphis. As noted in the lease agreement (**Appendix A**), the TNARNG leases 59.29 acres of the airport property from the City of Jackson and County of Madison. The airfield was originally established in 1941 as a military training center (McKellar-Sipes Regional Airport, 2018). The lease agreement references the parcel as previously conveyed to the County of Madison and the City of Jackson, however the date of conversion from military to commercial use (likely post-WWII) is not readily available. According to facility personnel, the TNARNG has occupied the site since 1999, with no prior tenants. Historical aerial photos (EDR, 2018 included in **Appendix** A) show infrastructure at the current AASF#3 location as early as 1997.

1.5 Facility Environmental Setting

AASF#3 lies within the Gulf Coastal Plain physiographic province within the eastern portion of the Mississippi Embayment in Central Southwestern Tennessee. The facility lies west of Johnson Creek a tributary that flows north to the South Fork of the Forked Deer River.

1.5.1 Geology

The geology at AASF#3 is dominated by the Mississippi Embayment, which is a broad structural syncline (trough) that plunges southward along an axis that approximates the Mississippi River (Parks, et al., 1993). AASF#3 is underlain mostly by Quaternary-age loess (USGS, 2018). These deposits are gray to brown massive clayey and sandy silt (USDA, 1978) and reach maximum thicknesses of 100 feet along bluffs of the Mississippi River and thin to the west (Hardeman, 1966). Underlying the loess deposits is the Memphis Sand, described below.

1.5.2 Hydrogeology

The principal aquifer underlying AASF#3 is the Memphis Sand aquifer. The Memphis Sand primarily consists of a thick body of sand that contains subordinate lenses or beds of clay or silt at various horizons. Recharge to the aquifer comes from infiltration of precipitation that falls on broad area of western Tennessee (Parks and Carmichael, 1990). The Sand can range from 400 to 900 feet thick. Where the Memphis Sand aquifer is confined, the potentiometric surface gently slopes (and groundwater flows) to the west (Parks and Carmichael, 1990). Locally shallow groundwater flow is likely to follow topography which slopes downward to the northeast (**Figure 1-2**).

1.5.3 Hydrology

Surface water in the vicinity of AASF#3 drains east toward Johnson Creek, which flows north to the South Fork of the Forked Deer River (**Figure 1-3**). Local surface drainage at AASF#3 is conveyed to the south and east toward shallow ditches that generally align with fencing. The ditches drain to a ponded area east and outside of the AASF#3 boundary.

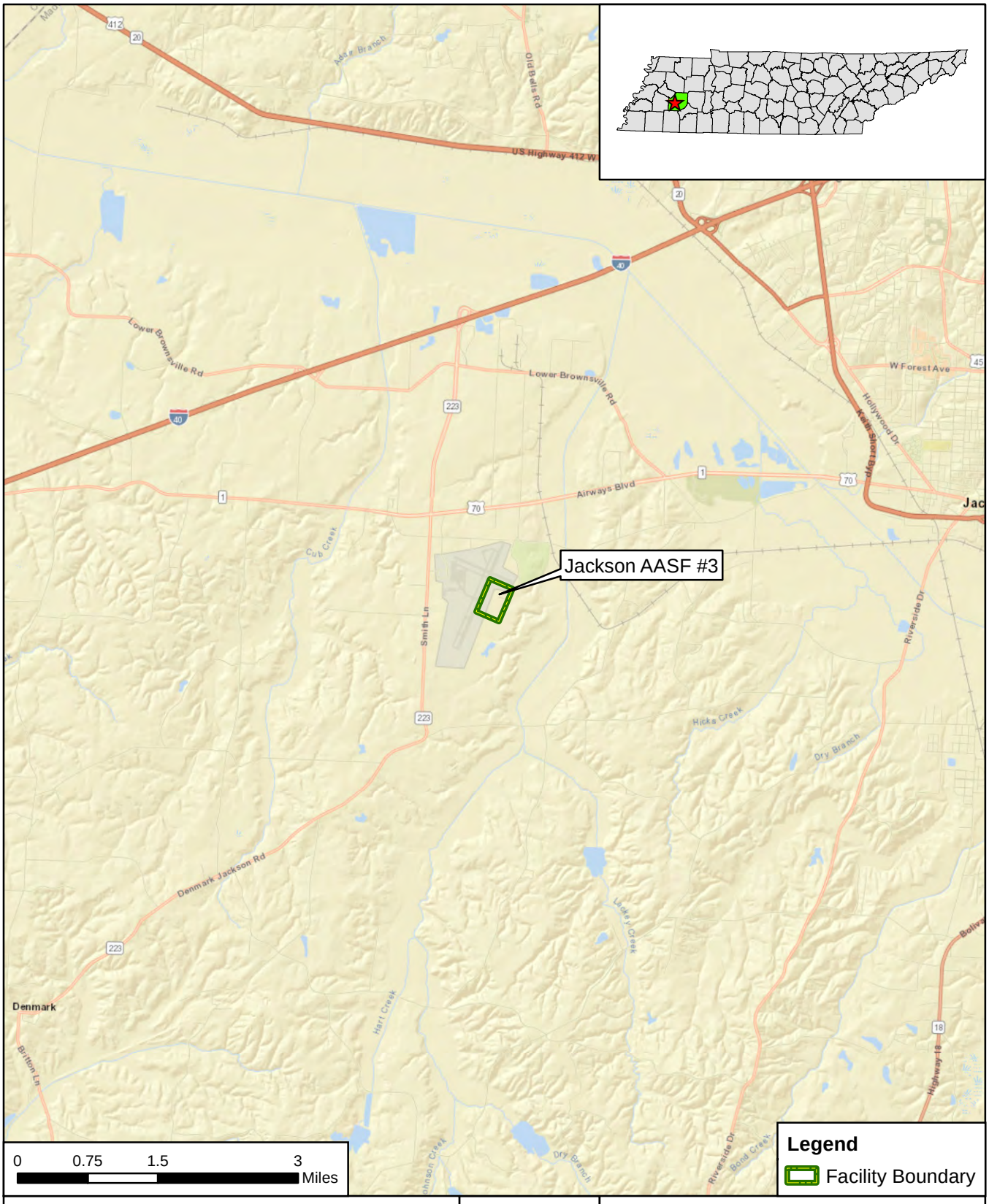
As noted in the attached Environmental Data Research (EDR) report (**Appendix A**), a query of Tennessee Department of Environment and Conservation's water well database identified 27 water supply wells: nine residential, nine commercial or industrial, two agricultural and seven unspecified. Wells are reportedly located between one-eighth and one mile to the north and west of AASF#3 (**Figure 1-2**) and range in depth from 28 to 200 feet.

1.5.4 Climate

Data from McKellar-Sipes Regional Airport indicate that the mean annual temperature between 1981 and 2010 was 59.8 degrees Fahrenheit (ºF) (National Oceanic and Atmospheric Administration [NOAA], 2018). The warmest months are July and August, with normal daily mean temperatures of 79.5ºF and 78.6ºF, respectively. January is the coldest month, with a mean temperature of 38.2ºF. Average annual precipitation measured from 1981 to 2010 at McKellar-Sipes Regional Airport was 53.27 inches. Rainfall is heaviest during the spring and winter with seasonal average rainfalls of 15.30 inches and 13.59 inches respectively; August and September are the driest months. Average monthly precipitation ranges from 3.00 inches in August to 5.69 inches in May.

1.5.5 Current and Future Land Use

The McKellar-Sipes Regional Airport is a public use airport, with general aviation services located on the west side and AASF #3 on the east side. A variety of residential, commercial/industrial and agricultural parcels surround the northern and western sides of the airport property; areas east and south are predominately agricultural. No future changes to the current use were noted during personnel interviews.



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SCALE	1:95,040	CHK BY	SS	9/12/2018
Base Map: Sources: Esri, HERE, DeLorme, USGS, Intermap, increment P Corp., NRCAN, Esri Japan, METI,		PM	RG	9/12/2018

Facility Location

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Figure 1-1

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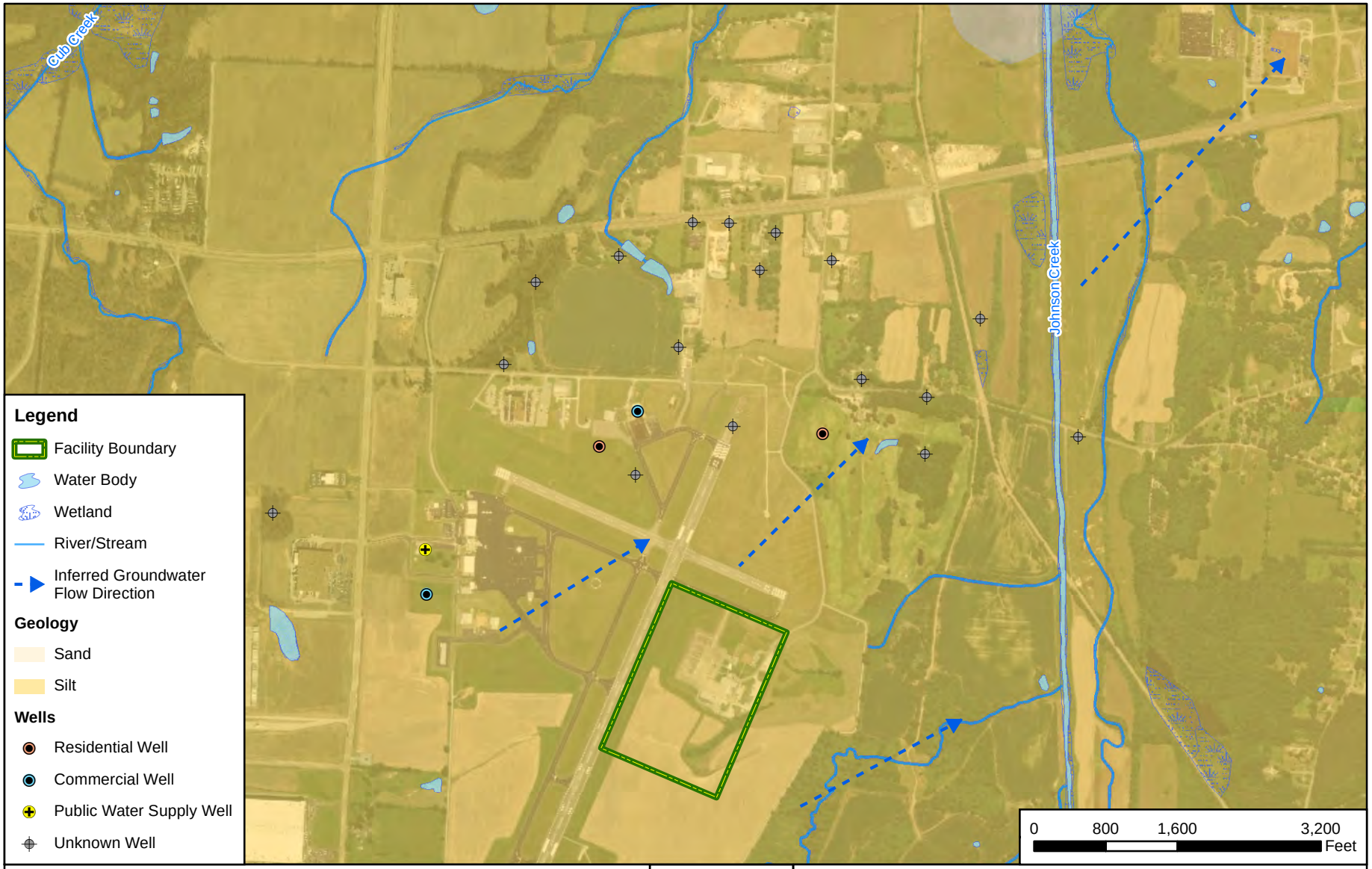

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SCALE	1:19,200	CHK BY	SS	9/12/2018
Base Map: National Agricultural Imagery Program, 2016		PM	RG	9/12/2018

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Groundwater Features

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Figure 1-2

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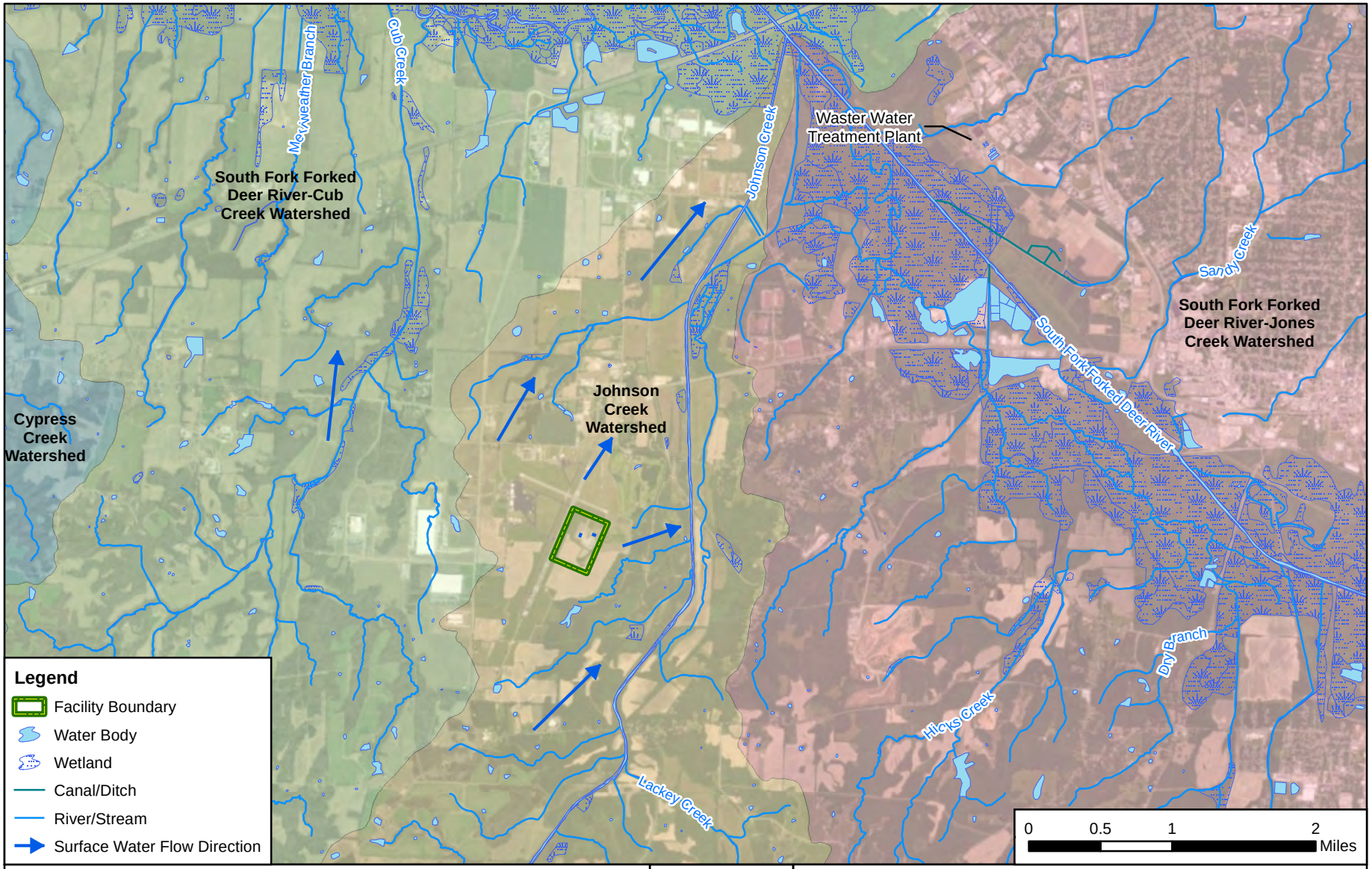

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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA,		PM	RG	9/14/2018

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Surface Water Features

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Figure 1-3

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2. Fire Training Areas

With the exception of hand held and mobile cart extinguisher testing/training in the wash rack building and former wash rack area (described in **Sections 3.5** and **3.6**, respectively), AASF#3 personnel confirmed there are no designated FTAs at the facility.

3. Non-Fire Training Areas

The AASF#3 facilities consists of the flight line, several buildings (hangar, wash rack, Readiness Center, and storage) and a former wash rack area (pad). These non-fire training areas were investigated during the PA. These and other areas are described below and shown on **Figure 3-1,** with photographs provided in **Appendix C**.

Floor drains inside AASF#3 buildings convey wastewater to two lift stations then to the McKellar-Sipes Airport wastewater collection system. The wastewater conveyance piping runs inside an east-west fenceline on the south side of the facility to the west northwest, across the runway to the primary airport facilities.

3.1 Flight Line

The AASF#3 flight line, a large concrete pad used to stage helicopters, is located in the central portion of the facility and west of the hangar building. Non-AFFF mobile firefighting carts are available on the flight line in the case of an emergency. According to PA interviews, AFFF has never been dispensed on the flight line. Fuel is transported to the flight line by truck from storage tanks managed at the main Airport facility across the runway, west of AASF#3. Ponding occurs on both east and west sides of the flight line during heavy rain events. Precipitation drains to perimeter grassy areas, then infiltrates and/or drains to a swale on the east side of the flight line that conveys flow eastward via open ditch to a ponded area east of the facility boundary. The geographic coordinates for the AASF#3 flight line are 35°35'56.54"N and 88°54'45.85"W.

3.2 Hangar

The hangar is located in the central portion of the facility, adjacent to the eastern side of the flight line. It is used for helicopter maintenance, storage, and training. The current hangar was built in October 2003, in the same location as the previous (original) hangar which was destroyed by a tornado. Historical aerial photos (EDR, 2018), indicate the original hangar was constructed between 1992 and 1997. TNARNG staff report the original hangar was not equipped with a fire suppression system; only dry chemical fire extinguishers were installed. The current hangar contains an AFFF fire suppression system with dispensing nozzles installed in the hangar ceiling connected via piping to two 300-gallon AFFF above ground storage tanks (ASTs) inside the hangar.

In 2006, the AFFF system's former service contractor replaced one of the AST bladders, which TNARNG staff believes required draining (releasing) the contents of the AST, approximately 300 gallons of 3 percent AFFF solution, and then refilling the tank. At the time of the site visit, both ASTs contained AFFF (one 300 gallon AST is reported to contain the original AFFF contents and the other 300-gallon AST has AFFF contents refilled in 2006.)

Additionally, TNARNG staff reported the likely releases of unspecified quantities of AFFF during annual testing from 2003 to 2015, also performed by the system's former service contractor. Specifically, the AST tank valves were opened and allowed to drain for some minutes prior to collecting a sample of the concentrate for analysis. In all instances (AST maintenance and annual testing), waste AFFF was likely released to the hangar floor drains.

The hangar floor drains are connected to underground conveyance piping which is routed through an oil water separator (OWS) south of the hangar before continuing westward and across the runway, eventually joining the main airport facility wastewater collection system. The airport is served by the Jackson Energy Authority municipal waste water treatment plant

(WWTP) located at 191 Miller Avenue, approximately 4 miles northeast of AASF#3 (see **Figure 1-3**). The geographic coordinates are 35°38'18.97"N and 88°51'47.95"W. Suspected AFFF releases to floor drains in the AASF#3 hangar building (during AFFF system maintenance and testing) may have been conveyed to the WWTP via the Airport wastewater collection system.

TNARNG staff noted the AFFF hangar fire suppression system would only be deployed in an emergency (i.e., not tested); system re-design/retrofit has been requested by staff, to prevent damage to the hangar electrical system/lighting if deployed due to the current AFFF system design, with ceiling nozzles installed above the electrical equipment and the corrosive nature of AFFF.

AASF#3 emergency protocols currently calls for use of NOVEC™ 1230 mobile carts (yellow-green) (acquired in 2016). NOVEC™ 1230 is a non-PFAS fluid that reportedly has no impact on electronic components. The geographic coordinates for the hangar are 35°35'53.12"N and 88°54'43.02"W.

3.3 Readiness Center

The Readiness Center is located north of the hangar and contains offices primarily used for training. To the best of their knowledge, TNARNG staff who have been working on site since 2003 reported that AFFF has never been stored in the building. Geographic coordinates for the Readiness Center are: 35°35'56.83"N and 88°54'39.93"W.

3.4 Storage Building

The storage building is located north of the hangar. Various materials are stored inside the building, including eleven 5-gallon sealed containers of Ansulite 3 percent AFFF #54783 (see safety data sheet included in Appendix A). The 5-gallon buckets were likely used to refill the Ansul AFFF mobile carts (e.g., after the original solution expiration date or after AFFF usage during testing/training). To the best of their knowledge, TNARNG staff who had been working on site since 2003 reported no releases of any materials in this area. Geographic coordinates for the storage building are: 35°35'55.90"N and 88°54'42.23"W.

3.5 Wash Rack Building

The wash rack building is located southwest of the hangar, and on the southern end of the flight line. The wash rack building was constructed in 2003 and does not have an installed fire suppression system. Fluids drain to a central floor drain, through the OWS and conveyed to the airport wastewater collection system. Hand held and mobile cart fire extinguisher testing/training is conducted in this building (with Ansul AFFF mobile carts from 2003 to 2016 and with NOVEC™ 1230 mobile carts since 2016). Until their disposition is possible, Ansul AFFF mobile carts (taken out-of-service in 2016) are stored in the wash rack building and not used. Personnel stated the Ansul AFFF carts are planned to be removed after a contract for their disposal is awarded. To the best of their knowledge, TNARNG staff who had been working on site since 2003 reported no other releases in this area. The geographic coordinates for the wash rack building are 35°35'52.61"N and 88°54'45.18"W.

3.6 Former Wash Rack Area

The former wash rack area is located north of the storage building. Prior to 2003, equipment cleaning was conducted in this open, concrete paved area. Hand held and mobile cart fire extinguisher testing/training was also conducted in this area. All fluids drained to an OWS

connected to the airport wastewater collection system. The former wash rack OWS has since been removed and the void filled with rocks. To the best of their knowledge, TNARNG staff who had been working on site since 2003 reported no other releases in this area. Geographic coordinates for the former wash rack are: 35°35'56.51"N and 88°54'41.83"W.

3.7 Landfills

During PA interviews, TNARNG staff noted no current or former landfills located at or in the vicinity of AASF#3.

Landfills are not usually a primary release area of PFAS, but materials disposed in landfills may create a secondary source of contamination. Such materials, to name a few, may include sludge from a WWTP that processes PFAS-laden water, used AFFF storage containers, or products associated with waterproofing uniforms or boots.

CLIENT	ARNG			
NOTES	Preliminary Assessment for PFAS at Jackson AASF #3, TN			
REVISED	11/1/2018	GIS BY	MS	11/1/2018
SCALE	1:4,200	CHK BY	SS	11/1/2018
Base Map: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,		PM	RG	11/1/2018

Non-Fire Training Area

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Figure 3-1

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4. Emergency Response Areas

To the best of their knowledge TNARNG personnel who have been working on site since 2003 reported no past emergency responses.

5. Adjacent Sources

McKellar-Sipes Regional Airport is a public use airport, with most facilities located west and north across the runways from AASF#3. TNARNG staff reported responses to emergencies at the Airport, including AASF#3, are provided by the McKellar-Sipes Airport Fire Department (MSAFD). The MSAFD Fire Chief, affiliated with the Department since 1998 and in role of Fire Chief since 2014, reported storage of 6% AFFF in 5-gallon buckets inside the station (located at 308 Grady Montgomery Dr. see **Figure 5-1**) and in two fire trucks parked inside the station. The large truck holds 500 gallons of AFFF and the small truck holds 150 gallons. The truck tanks are filled by pouring directly from the 5-gallon buckets. Floor drains in the station convey fluids to the City of Jackson's wastewater system. The Chief indicated he purchases AFFF on the internet based on least expensive price, with the most recent purchase of Buckeye brand AFFF approximately 2 years ago.

The MSAFD Fire Chief reported one use of AFFF during an emergency response on 21 September 2016 where 55-gallons of AFFF was used to extinguish a fire that occurred when the landing gear of a King Air aircraft failed and the aircraft crashed into the airport weather station located southeast of the runway (approximate area shown on **Figure 5-1**), approximately 600-800 yards from AASF#3. The incident report provided by the Fire Chief is included in **Appendix A**.

The MSAFD Fire Chief also noted small releases of AFFF occur during annual Federal Aviation Administration (FAA)-required demonstrations of emergency response readiness. During the exercises a small quantity (5 gallons) is dispersed from the fire truck, typically staged adjacent to the runway, mid-field (approximate area shown on **Figure 5-1**); the dispensed AFFF is allowed to runoff the pavement and infiltrate the soil.

The MSAFD does not maintain a FTA; annual personnel live fire training is conducted in Millington TN. Nozzle testing is conducted with water only. The MSAFD Fire Chief indicated their Department has an informal agreement to provide emergency response to AASF#3, with backup support provided the Madison County Fire Department (MCFD) which leases airport property from the City of Jackson. To the best of his knowledge, during his 20-year tenure (1998-2018) AFFF has never been disposed on- or off-site, and there has never been leaks or spills of AFFF and no buildings at the airport are equipped with AFFF fire suppression systems.

The MCFD Fire Chief was interviewed after the site visit. He indicated 3% or 6% AFFF is maintained exclusively in 5-gallon buckets, which are stored in their administration building (shown on **Figure 5-1**), located adjacent to the McKellar-Sipes airport control tower north of the main runway, and in 5-gallon buckets stored on 20 pumper trucks distributed across 17 stations in the County. The trucks are equipped to respond with water, dry chemical, and AFFF. When needed, water is streamed with AFFF drawn directly by eductors from the AFFF 5-gallon bucket stored on the truck. Live fire training (by MCFD staff only) is conducted adjacent to the administration building and uses propane and water exclusively. Detergent (soap) only is used for nozzle testing to simulate foam.

To the best of his knowledge there have been no AFFF spills, leaks or other releases during his tenure with the MCFD which began in 1983. He believes MCFD purchases AFFF through a Memphis TN vendor (EVS Emergency Vehicle Specialists); and excess AFFF is donated to local volunteer fire departments. He has no knowledge of formal agreements for responding to emergencies at AASF#3; however he confirmed McKellar-Sipes Airport Fire Department has primary responsibility for emergency response at the airport and MCFD provides backup support as needed.

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REVISED	9/25/2018	GIS BY	MS	9/25/2018
SCALE	1:12,000	CHK BY	SS	9/25/2018
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community		PM	RG	9/25/2018

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Adjacent Sources

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Figure 5-1

Q:\Projects\ENV\GEARS\GEO\MAES 2012 Unrestricted\Fort Meade\E. Data Management\GIS\MXDs\Chisholm_6th\March2017\ Fig_5-1_Jackson_AASF_Adjacent_Sources.mxd

6. Conceptual Site Model

Based on the PA findings, due to their close proximity, the AFFF release areas associated with the AASF#3 hangar building, wash rack building and former wash rack were identified as a single AOI. This section describes the CSM components developed for this AOI. The CSM identifies the three components necessary for a potentially complete exposure pathway: (1) source, (2) pathway, and (3) receptor. If any of these elements are missing, the pathway is considered incomplete. The AOI is shown on **Figure 6-1** and the CSM is presented on **Figure 6-2**.

In general, the potential PFAS exposure pathways are ingestion and inhalation. Dermal contact is not considered to be a potential exposure pathway as studies have shown very limited absorption of PFAS through the skin (National Ground Water Association [NGWA], 2018). Receptors at AASF#3 include site workers, construction workers and residents outside the facility boundary. As described below, the CSM for the hangar release AOI indicates the specific receptors that could potentially be exposed to PFAS.

6.1 AOI 1

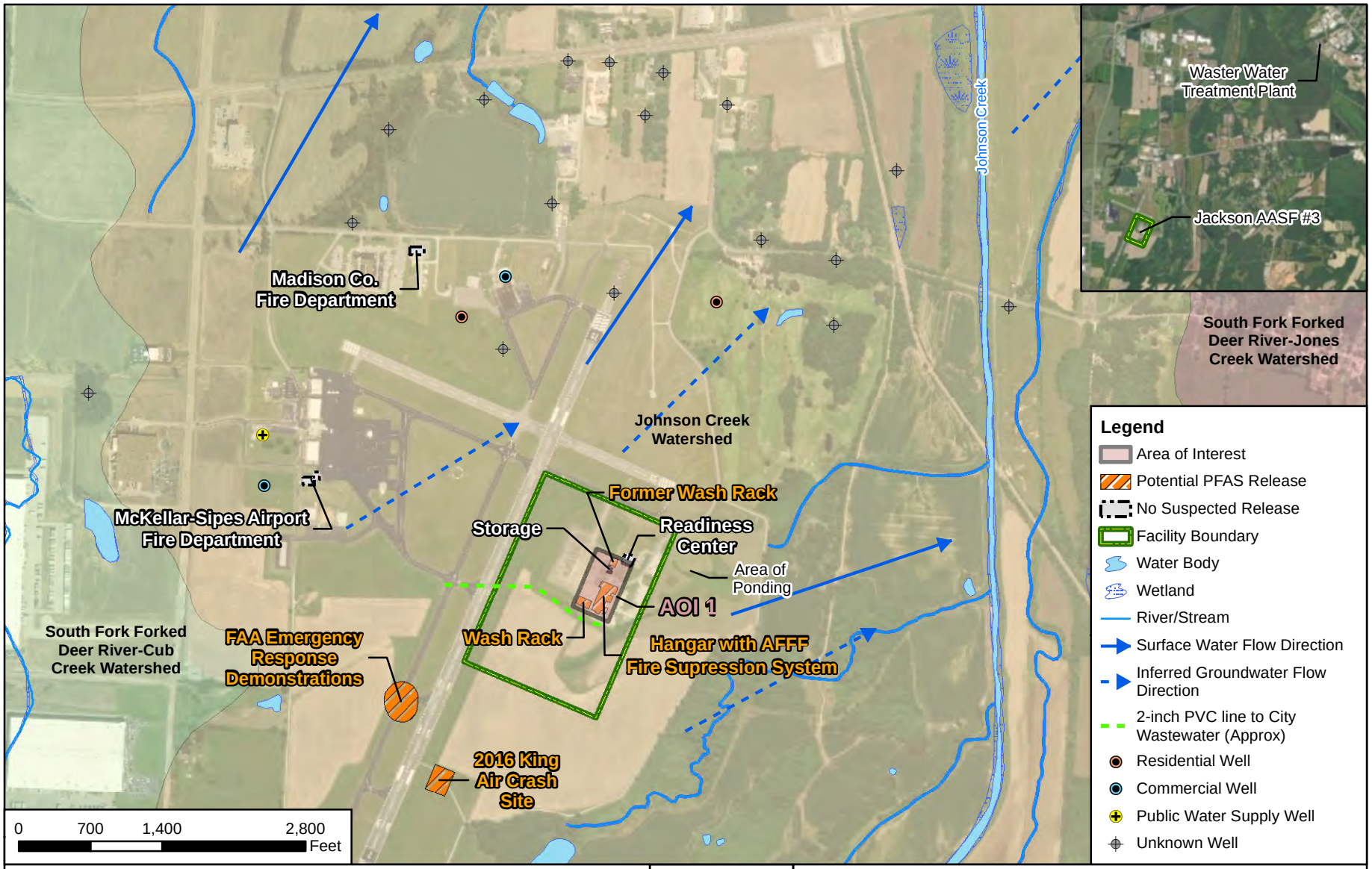
A 2006 release of approximately 300 gallons of AFFF is suspected during an AFFF AST bladder replacement, with additional unspecified quantities released in the past during annual fire suppression system testing (2003-2015). All releases occurred inside the AASF#3 hangar building.

Releases may have occurred during AFFF fire extinguisher testing/training (hand held and mobile carts) conducted at the former wash rack (1997-2003) and current wash rack building (2003-2016).

Releases at the hangar and wash racks would have been conveyed to their respective drains and OWSs, and then to the airport wastewater collection system, and possibly ultimately discharged to the Jackson Energy Authority WWTP. Based on the nature of the release (during maintenance/routine testing/training) it appears unlikely AFFF would have been discharged to the ground surface outside of the hangar building or wash racks, where surface drainage is conveyed to an area of ponding outside the AASF#3 boundary to the east (**Figure 6-1**).

PFAS contamination may have infiltrated to subsurface soil via leaks in drains, OWSs or underground wastewater conveyance piping beneath the hangar and wash racks , or leaks along such piping from the facility to the municipal WWTP. Under such scenarios ground disturbing activities in these areas could result in site and construction worker exposure to PFAS via inhalation of dust or ingestion of exposed subsurface soil.

Potential PFAS contamination may have further infiltrated to shallow groundwater, which is anticipated to follow topography and flow northeast toward the South Fork of the Forked Deer River. Some groundwater could migrate to water supply wells identified within one mile of the installation. Reported well depths range from 28 to 200 feet below ground surface with uses noted as residential, commercial, industrial, agricultural, and unspecified (EDR, 2018). Therefore, the ingestion exposure pathway for groundwater is potentially complete.



CLIENT	ARNG			
PROJECT	Preliminary Assessment for PFAS at Jackson AASF #3, TN			
REVISED	11/16/2018	GIS BY	MS	11/16/2018
SCALE	1:16,800	CHK BY	SS	11/16/2018
Base Map: National Agricultural Imagery Program, 2016		PM	RG	11/16/2018

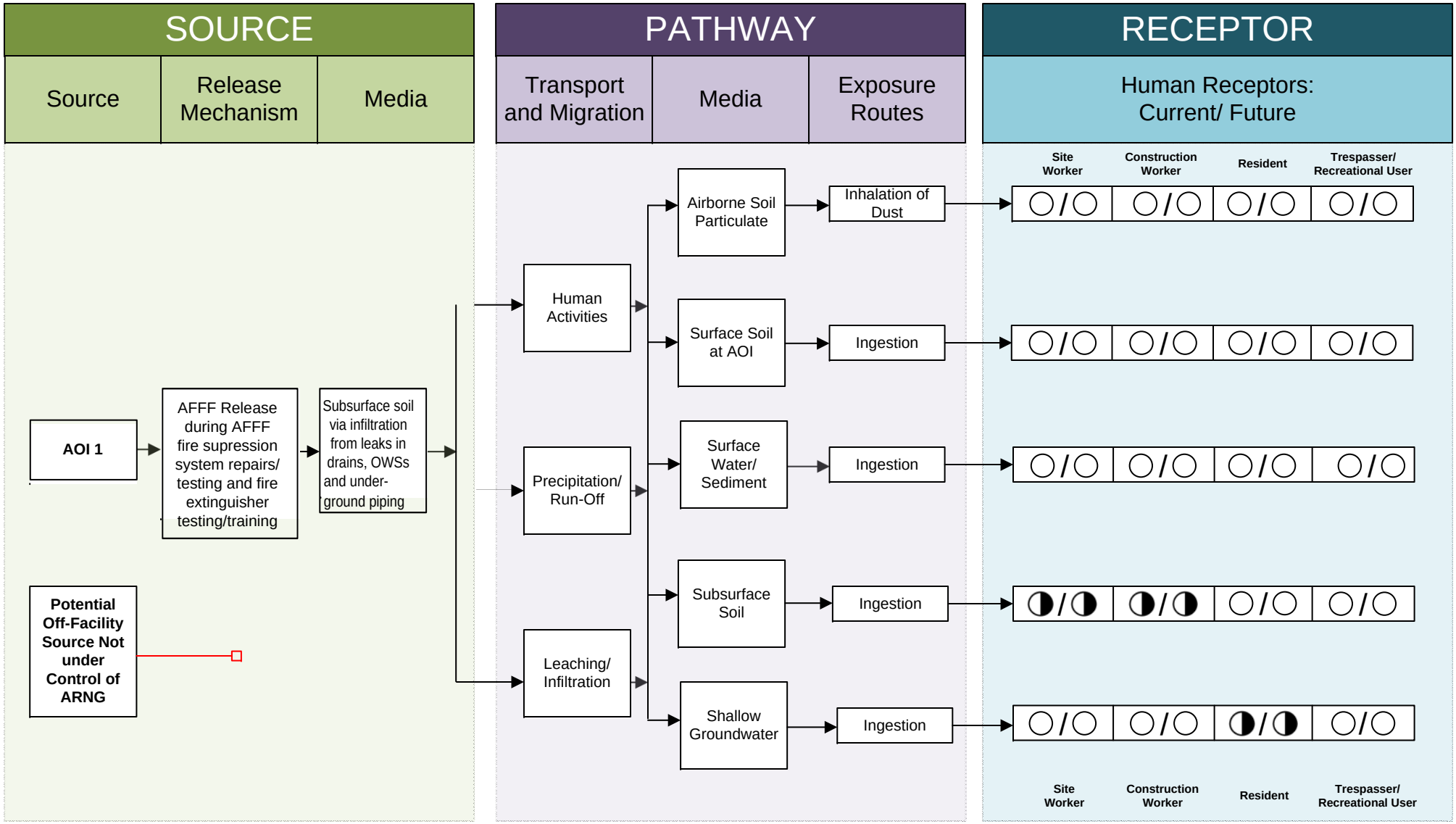
N

Area of Interest

AECOM 12420 Milestone Center Drive Germantown, MD 20876

Figure 6-1

Q:\Projects\ENV\GEARS\GEO\MAES 2012 Unrestricted\Fort Meade\E. Data Management\GIS\MXDs\Chisholm_6th\March2017\ Fig_6-1_Jackson_AASF_Area_of_Interest.mxd



LEGEND

- Flow-Chart Stops
- Flow-Chart Continues
- Partial / Possible Flow
- Incomplete Pathway
- Potentially Complete Pathway
- Complete Pathway

Figure 6-2

Conceptual Site Model

AOI 1 AFFF Release in Hangar or Current/Former Wash Racks at AASF# 3

7. Conclusions

Due to the close proximity of PFAS releases, one AOI was identified at AASF#3 during the PA (**Figure 7-1**).

7.1 Findings

Based on interviews with current AASF personnel, reported historical AFFF releases are associated with the AASF#3 hangar fire suppression system and AFFF fire extinguisher testing/training at wash racks (former and current building). These indicate the potential for PFAS contamination in subsurface soil and groundwater to intercept one or more receptors. No evidence of other accidental or incidental spills or leaks from AFFF storage containers/areas were identified during the VSI, including excess stored AFFF concentrate located in the storage building. The remaining buildings associated with the AASF are not equipped with or store AFFF. These findings are summarized below.

Area of Interest	Name	Used by	Release Dates
AOI 1	Release during replacement of torn AFFF storage tank bladder (approximately 300 gallons), discharged to hangar floor drain/OWS	TNARNG	2006
	Releases during annual AFFF suppression system testing (approximately 50 gallons total), discharged to hangar floor drain/OWS	TNARNG	2003-2015
	Releases during AFFF fire extinguisher testing/training (hand held and mobile carts) at the former wash rack and current wash rack building, discharged to respective drains/OWSs	TNARNG	1997-2003 (former wash rack) 2003-2016 (current wash rack building)

7.2 Uncertainties

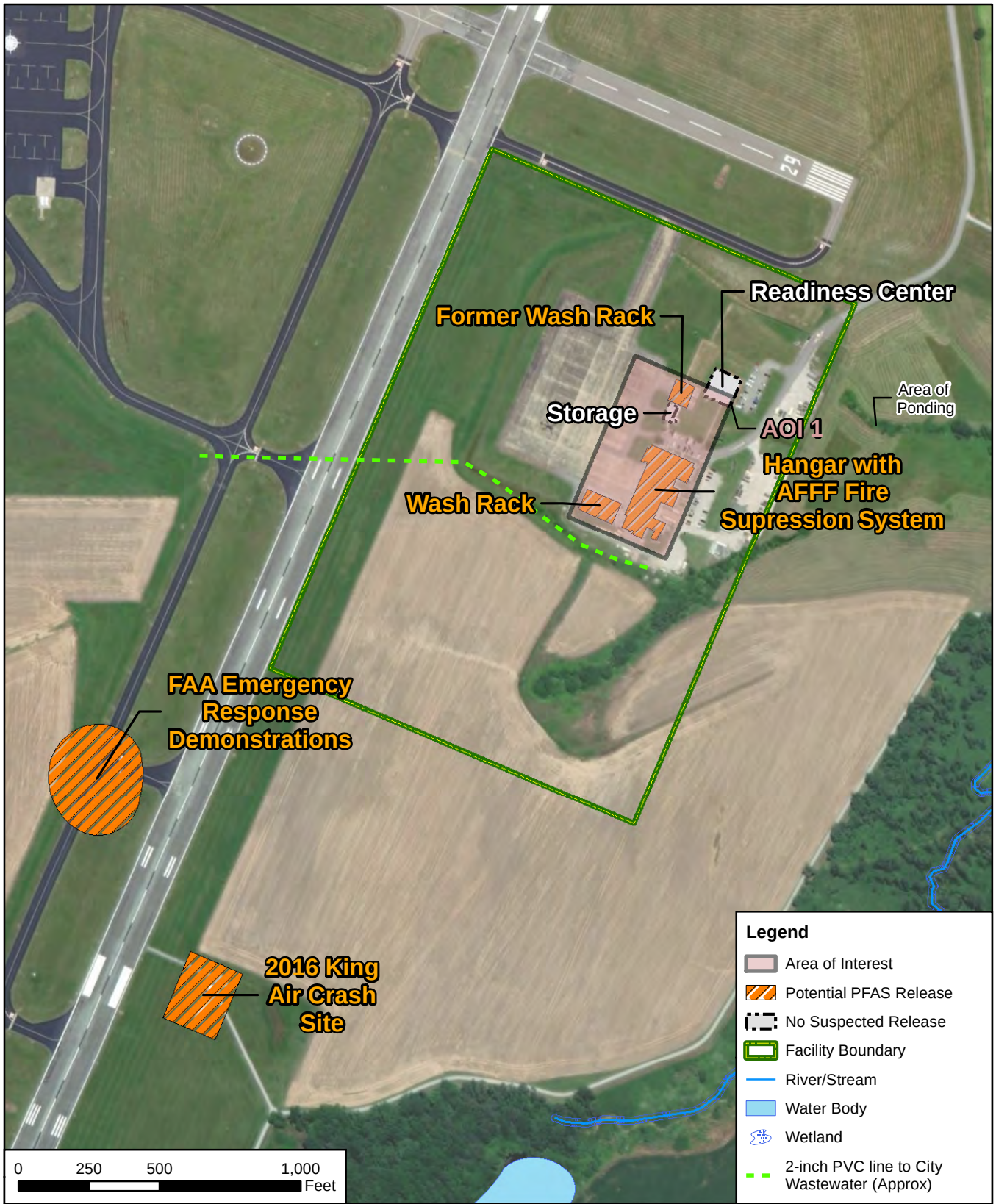
Available information sources were investigated during this PA to determine the potential for PFAS-containing materials to have been present, used, or released at the facility. Historically, documentation of PFAS use was not required because PFAS were considered benign. Therefore, records were not typically kept by the facility or available during the PA on the use of PFAS in training, firefighting, or other non-traditional activities, or on its disposition.

The conclusions of this PA are predominantly based on the information provided during interviews with personnel who had direct knowledge of PFAS use at the facility. Sometimes the provided information was incomplete. 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 was 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.

The following table summarizes the uncertainties associated with the PA:

Area of Interest	Source of Uncertainty
AOI 1	AASF#3 staff do not have first-hand knowledge of the quantity and specifics of the releases because a third-party (contractor) performed the AFFF AST bladder replacement (2006) and annual testing (2003-2015) that are likely potential PFAS releases. Therefore, it is speculative whether fluids were fully contained within the hangar and routed to the hangar floor drains. The nature of suspected AFFF fire extinguisher testing/training conducted before 2003 is not known. Known historical use of AFFF on the adjoining airport property is limited to the 20-year tenure of MSAFD personnel interviewed (1998-2018).



CLIENT	ARNG			
NOTES	Preliminary Assessment for PFAS at Jackson AASF #3, TN			
REVISED	11/1/2018	GIS BY	MS	11/1/2018
SCALE	1:6,000	CHK BY	SS	11/1/2018
Base Map: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS,		PM	RG	11/1/2018

Summary of Findings

AECOM
12420 Milestone Center Drive
Germantown, MD 20876

Figure 7-1

Q:\Projects\ENV\GEARS\GEO\ARNG PFAS\900-CAD-GIS\920-GIS or Graphics\MXD\TN\MXDs\Jackson_AASF_MXDs\Fig_7-1_Jackson_AASF_Summary.mxd

8. References

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United States Department of Agriculture (USDA). 1978. *Soil Survey of Madison County Tennessee*.

United States Environmental Protection Agency (USEPA). 1991. *Guidance for Performing Preliminary Assessments under CERCLA*. EPA/540/G-91/013. September 1991.

United States Geological Survey (USGS), 2018. Tennessee geologic map data, https://mrdata.usgs.gov/geology/state/state.php?state=TN. Accessed 24 July 2018.

United States Fish and Wildlife Service (USFWS). 2018. Wetlands Mapper. *www.fws.gov/wetlands/Data/Mapper.html* .Accessed 30 October 2018.

Appendix A
Data Resources

Data resources will be provided separately on CD. Data resources for Army Aviation Support Facility#3 include:

AASF#3 Permits and Lease Information

- 1992 AASF#3 Lease

Emergency Responses

- 2016 King Air Crash Incident Report

AFFF Product Information

- Ansulite 3% Manufacturer Safety Data Sheet and Product Information

Environmental Data Resources Report

- 2018 AASF#3 Jackson EDR Report

Prepared By:
COL Leslie W. Barham
Staff Judge Advocate
Tennessee National Guard
Nashville, TN 37204

LEASE AGREEMENT

1. This Lease made and entered into this the 10th day of January, 1992, by and between the City of Jackson, Tennessee and Madison County Tennessee, whose interest in the property hereinafter described is that of owners for itself, its successors and assigns, hereinafter called the Lessor, and the State of Tennessee, for use by the Tennessee National Guard hereinafter called the Lessee.

The parties hereto for the consideration hereinafter mentioned covenant and agree as follows:

2. The Lessor hereby leases to the Lessee the following premises and/or facilities located at Mckellar-Sipes Regional Airport, Madison County, Tennessee:

(a) That certain tract or parcel of land lying and being in the Eighth Civil District of Madison County, Tennessee, being a part of property conveyed to Madison County and the City of Jackson, Tennessee, in two contiguous tracts by deeds shown of record in Deed Book 131, page 103, and Deed Book 135, page 623, Register's Office of Madison County, Tennessee, said parcel more particularly described as follows:

DESCRIPTION

A tract or parcel of land lying in the 8th Civil District of Madison County, Tennessee, being a part of the property conveyed to Madison

County and the City of Jackson, Tennessee, in two contiguous tracts by deeds shown of record in Deed Book 131, page 103, and Deed Book 135, page 623, Register's Office of Madison County, Tennessee, said parcel more particularly described as follows:

Beginning at an iron rod with plastic cap set at the point of intersection of the east edge of the north-south runway of McKellar-Sipes Airport and the south edge of the taxiway on the south side of east-west runway of same; said point being at Tennessee State Plane Coordinates (NAD 27), N=453129.40 and E=1133872.02 and runs by azimuth based upon said coordinate system; thence, S23°56'45"W, 2000.00 feet, with the east edge of north-south runway to an iron rod with cap set; thence, S65°58'25"E, 1300.00 feet, to an iron rod with cap set at a witness post; thence, N23°56'45"E, 2000.00 feet, to an iron rod with cap set at a witness post; thence, N65°58'25"W, 1400.00 feet, to and with the south edge of the taxiway on the south side of the east-west runway to the point of beginning.

Containing 59.69 acres.

(b) The use of the land hereinabove described is to be confined to activities which are directly related to aircraft operations and military units of the Lessee at McKellar-Sipes Regional Airport, Jackson, Tennessee. The Lessor further leases to the Lessee the right to jointly utilize, in common with others, the airfield proper at McKellar-Sipes Regional Airport, Jackson, Tennessee, including, but not limited to joint use of runways, taxiways, rotating beacons, wind direction indicators, obstruction lights, runway markers, boundary fences, and all other airfield facilities exclusive of buildings. The said landing field is to be used for military aviation purposes, and it is understood and agreed that this term includes the Tennessee Army or Air National Guard.

3. To have and to hold the said premises with their appurtenances for the term beginning July 1, 1990, through June 30, 2045, provided that unless and until either party shall give notice

of termination in accordance with provision 12 or provision 8, this lease shall remain in force and effect from year to year without further notice provided adequate Federal and State appropriations are available from year to year for the payment of rentals.

4. The Lessee shall pay and/or reimburse the Lessor at the following rate:

(a) The rental for land, buildings, facilities and airfields as set forth in paragraph 2, subparagraph (a) and (b) shall be the sum of one ($1.00) dollar for the entire term of this lease, the receipt and sufficiency of which is hereby acknowledged.

(b) It is however, further and expressly agreed by and between the parties hereto that in further consideration of the services to be rendered the Lessee in connection with the joint use of airport facilities, (runways and taxiways, etc.) as provided for in paragraph 2 of this agreement and for participating in the providing of fire protection and other essential services, there shall be executed a separate service agreement between the Adjutant General of the State of Tennessee and the Lessor to run concurrently with this lease to provide for payment to the Lessor of a maintenance fee (joint use fee) for the proportionate use of runways, taxiways and appurtenances thereto by the Tennessee National Guard. It is further understood and agreed by and between the parties that in the event the Tennessee National Guard is ordered into Active Federal Military Service during the tenure of this lease the service agreement (joint use agreement) herein provided for shall be suspended for the period the Tennessee

National Guard is in such service. In the event the lease facilities are required by an active military component of the United States of America during the tenure of this lease, that military component shall enter into a separate service agreement with the Lessor to provide for payment to the Lessor of a maintenance fee for services to be rendered in connection with the proportionate use of the runways, taxiways, and appurtenances thereto by such federal force. Such agreement shall be for duration of said occupancy.

5. The Lessee shall not assign this lease in any event, and shall not sublet the demised premises except with the written consent and approval of the Lessor.

6. The Lessor shall furnish to the Lessee as a part of the rental consideration the following:

(a) Rights of ingress and egress to all jointly used facilities.

(b) Maintenance of runways, taxiways, and the flying field proper at McKellar-Sipes Regional Airport excluding that property described in paragraph 2, subparagraph (a). Maintenance includes but is not limited to weed cutting, grass mowing, turf maintenance, maintenance of night lighting systems and obstruction lights, glide angle reclearing, maintenance of field drainage system, marking runways, and maintenance of such other facilities as necessary for the proper operation of said flying field.

(c) Fire protection, including a staffed facility on the airfield during the hours of scheduled airfield operations.

7. The Lessee shall have the right, during the existence of

this lease, to make alterations, attach fixtures, and erect additions, structures, or signs, in or upon the premises described under Paragraph 2 (a) hereof, which fixtures, additions, or structures, so placed in, upon, or attached to the said premises shall be and remain the property of the Lessee, and may be removed, abandoned, or otherwise disposed of by the Lessee. The Lessee shall surrender possession of the premises described in Paragraph 2 (a) hereof upon expiration or termination of this lease, and the Lessor hereby waives any and all claims or damages to and restoration of the said land and improvements.

8. The Lessee may terminate this lease in whole or in part or elect to decrease the area covered herein at any time by giving (30) days notice in writing to the Lessor. In the event of a decrease in area, a Supplemental Agreement will be executed providing for such decrease and describing the area in detail.

9. It is further stipulated and agreed as follows:

(a) That the Lessee's radio equipment will be so installed and operated as not to interfere with radio equipment operated by the Federal Aviation Agency or the Lessor.

(b) That all ground vehicles which operate on the runways and taxiways shall be equipped with two-way radio equipment tuned to ground control frequencies except as otherwise agreed upon by the Lessor and the Lessee.

(c) That the Lessor has developed the leased premises and its adjacent property as a commercial airport and that the use by

the Lessee of the premises herein leased shall be coordinated with commercial flying, landing, and take-off of private and transient aircraft.

(d) That the use of the airport will be in such manner as will provide maximum safety and will minimize interference and hazards; however, this will in no way be construed to interfere with or restrict the accomplishment of any part of military combat or training missions of the Lessee.

(e) That all security measures necessary for the protection of property exclusively used by the Lessee as covered by this lease shall be furnished by and at the expense of the Lessee.

10. The Lessor warrants that no person or selling agency has been employed or retained to solicit or secure this lease upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees or bona fide established commercial or selling agencies maintained by the Lessor for the purpose of securing business. For breach or violation of this warranty the Lessee shall have the right to annul this lease without liability or in its discretion to deduct from the rental or consideration the full amount of such commission, percentage, brokerage, or contingent fee.

11. No member of or delegate to Congress or resident commissioner shall be admitted to any share or part of this lease or to any benefit that may arise therefrom but this provision shall not be construed to extend to this lease if made with a corporation for its general benefit.

12. (a) The lessee may, by written notice to the Lessor, terminate the right of the Lessor to proceed under this lease if it is found, after notice and hearing, by the Secretary of the Army or his duly authorized representative, that gratuities (in the forms of entertainment, gifts, or otherwise) were offered or given by the Lessor, or any agent or representative of the Lessor, to any officer or employee of the Federal Government with a view toward securing a lease or securing favorable treatment with respect to the awarding or amending, or the making of any determinations with respect to the performing, of such lease; provided, that the existence of facts upon which the Secretary of the Army or his duly authorized representative makes such finding shall be in issue and may be reviewed in any compentent court.

(b) In the event this lease is terminated as provided in paragraph (a) hereof, the Lessee shall be entitled (i) to pursue the same remedies against the Lessor as it could pursue in the event of a breach of the lease by the Lessor, and (ii) as a penalty in addition to any other damages to which it may be entitled by law, to exemplary damages in an amount (as determined by the Secretary of the Army or his duly authorized representative) which shall be not less than three nor more than ten times the costs incurred by the Lessor in providing any such gratuities to any such officers or employee.

(c) The rights and remedies of the Lessee provided in this clause shall not be exclusive and are in addition to any other

rights and remedies provided by law are under this lease.

13. It is expressly understood and agreed that the Lessor will hold the Lessee harmless from any negligent acts of Lessor's agents or employees, occuring on the leased lands.

14. Notices to the Lessor provided for herein shall be sufficient if sent by registered mail, postage prepaid, addressed to:

JACKSON-MADISON COUNTY AIRPORT
McKellar-Sipes Regional Airport
Jackson, Tennessee 38301

Notices to the Lessee, if sent by registered mail, postage prepaid, addressed to:

THE ADJUTANT GENERAL
TENNESSEE NATIONAL GUARD
Houston Barracks
P.O. Box 41502
Nashville, TN 37204-1502

or to such other address as parties may designate in writing.

15. Whenever the terms "Federal Aviation Agency" or "FAA" is used in this lease, it shall be construed as referred to the Federal Aviation Agency created by the Federal Government by an act of Congress as a successor to the Civil Aeronautics Authority created by the Civil Aeronautics Act of 1938, as amended in 1959, or to such other agency or agencies of the Federal Government having from time to time similar jurisdiction over the Lessee or its business.

The Lessee shall observe and comply with the covenants and conditions of the following "Grant Agreement Assurance":

A. The Lessee, for itself, its personal representatives, successors in interest, and assigns, as a part of the consideration

hereof, does hereby covenant and agree that (a) no person the grounds of race, color, or national origin shall be excluded from participation, denied the benefits of, or be otherwise subjected to discrimination in the use of said facilities, (b) that in the construction of any improvements on, over, or under such land and the furnishing of services thereon, no person on the grounds of race, color, or national origin shall be excluded from participation in, denied the benefits of, or otherwise be subjected to discrimination, (c) that the Lessee shall use the premises in compliance with all other requirements imposed by or pursuant to Title 49, code of Federal Regulations, Department of Transportation, Subtitle A, Office of the Secretary, Part 121, Nondiscrimination in Federally assisted programs of the Department of Transportation-Effectuation of Title Vi of the Civil Rights Act of 1964, and as said Regulations may be amended.

B. That in the event of breach of any of the above nondiscrimination covenants, the Lessor shall have the right to terminate the agreement and to reenter and repossess said land and facilities thereon, and hold the same as if said agreement had never been made or issued.

C. The Lessee agrees that it shall insert the above provisions in any lease (agreement, contract, etc.) by which said Lessee grants a right or privilege to any persons, firm or corporation.

17. It is further expressly understood and agreed by and between the parties hereto that in the event any covenant, condition

or provision herein contained is held to be invalid by any court of competent jurisdiction, or otherwise appears to both parties to be invalid, the invalidity of any such covenant, condition or provision shall in no way affect any other covenant, condition or provision herein contained; provided, however, that the invalidity of any such covenant, condition or provision does not materially prejudice either the Lessor the Lessee in its respective rights and obligations contained in the valid covenants, conditions or provisions of this lease.

Continued performance by either party pursuant to the terms of this agreement after a default of any of the terms, covenants and conditions herein contained to be performed, kept or observed by the other party shall not be deemed a waiver of any right to cancel this lease for such default, and no waiver of any such default shall be construed or act as a waiver of any subsequent default.

The following documents are attached to this lease agreement as Annexes and are incorporated herein by reference as fully and completely as though copied herein verbatim:

Annex A - Resolution creating Airport Authority (Jackson-Madison County Airport Authority)

Annex B - Survey description and map of leased premises prepared by Professional Land Services dated September 17, 1990.

IN WITNESS WHEREOF, the parties hereto have caused this leasehold agreement to be executed as of the day and year first above written.

CITY OF JACKSON

Charles H. Farmer

CHARLES H. FARMER
MAYOR

MADISON COUNTY

J. Alex Leech

J. ALEX LEECH
COUNTY EXECUTIVE

STATE OF TENNESSEE
TENNESSEE NATIONAL GUARD

Jerry R Wyatt

JERRY R. WYATT
MAJOR GENERAL
THE ADJUTANT GENERAL

Ned McWherter

APPROVED
GOVERNOR
STATE OF TENNESSEE

Dan L. Mooney

APPROVED
COMMISSIONER
FINANCE AND ADMINISTRATION

Charles W. Burson

APPROVED AS TO FORM AND LEGALITY
ATTORNEY GENERAL & REPORTER
STATE OF TENNESSEE

STATE OF TENNESSEE
COUNTY OF MADISON

Before me Leslie W. Barham a Notary Public of the state and county aforesaid, personally appeared Charles H. Farmer, with whom I am personally acquainted, and who, upon oath, acknowledged himself to be Mayor of the City of Jackson, Tennessee, the within named bargainer, and that he as such Mayor, being authorized so to do, executed the foregoing instrument for the purpose therein contained.

Witness my hand and seal at office in Jackson, Tennessee, this 10 day of January, 1992.

Leslie W. Barham
LESLIE W. BARHAM
NOTARY PUBLIC

My commission expires 4-17-94

STATE OF TENNESSEE
COUNTY OF DAVIDSON

Personally appeared before me B. Elaine Patten Notary Public for Davidson County, David L. Manning, Commissioner of Finance and Administration with whom I am personally acquainted and who, upon oath, acknowledged that he is the Commissioner of Finance and Administration and that he as Commissioner, being authorized so to do, executed the foregoing instrument for the purpose therein contained by signing the name of the State of Tennessee by himself as Commissioner.

WITNESS my hand and seal at office in Nashville, this 13th day of March, 1992.

B. Elaine Patten
Notary Public

My Commission Expires:
January 27, 1996

BOOK 872 PAGE 829

STATE OF TENNESSEE
COUNTY OF MADISON

Before me Leslie W. Barham a Notary Public of the state and county aforesaid, personally appeared J. Alex Leech, with whom I am personally acquainted, and who, upon oath, acknowledged himself to be County Executive of the City of Jackson, Tennessee, the within named bargainer, and that he as County Executive, being authorized so to do, executed the foregoing instrument for the purpose therein contained.

Witness my hand and seal at office in Jackson, Tennessee, this 10 day of JANUARY, 1992.

Leslie W. Barham

LESLIE W. BARHAM
NOTARY PUBLIC

My commission expires 4-17-94

BOOK 872 PAGE 830

STATE OF TENNESSEE
COUNTY OF MADISON

Before me Leslie W. Barham a Notary Public of the state and county aforesaid, personally appeared MG Jerry R. Wyatt, with whom I am personally acquainted, and who, upon oath, acknowledged himself to be The Adjutant General for the State of Tennessee, the within named bargainer, and that he as The Adjutant General, being authorized so to do, executed the foregoing instrument for the purpose therein contained.

Witness my hand and seal at office in Jackson, Tennessee, this 10 day of February, 1993.

Leslie W. Barham

LESLIE W. BARHAM
NOTARY PUBLIC

My commission expires 4-17-94

(State of Tennessee) I, Curtis White, Register of said County do hereby (County of Madison) certify that the foregoing instrument, with Notary Public certificate and seal thereon, was filed in my office for registration on the 16 day of Mar 1993, at 9:00 M., and noted in Note Book 55 Page 260 and was duly recorded this day, in Book of Trust No. 872 Page 818 State Taxes _____ Register's Fee _____ Recording 5.00 Total _____ Receipt No. _____

Linda Waldon D.R.

BOOK 872 PAGE 831

Jackson-Madison County Airport Authority
McKellar-Sipes Regional Airport

ARFF AND SECURITY

INCIDENT REPORT

DATE 9.21.2016 ARFF OFFICER ON DUTY Greg Pewitte
4:20 pm local

Tower notified AP-1 that An Alert 3 had occurred on R/W 02. AP-1 proceeded to crash site + upon arrival plane was on FIRE and had collided with weather station equipment. Foam was applied to FIRE until extinguished. Pilot had excaped accident without injuries.
Madison Co. FIRE, Ems, + JEA were also dispatched to scene for support.
Pilot was not treated by EMS.
JEA installed new transformer around 9:00pm.
55 gall. AFFF 6% foam was used.

Plane: N-666804 Twin-engine King AIR
Pilot Bill Douglas - 731-394-6020 Cell #

R/W 02 was inspected and cleared of FOD and was cleared to reopen aprox 5:15 pm.

D. Pewitte

(Attach this form to regular Field Inspection Form)

Safety Data Sheet

This safety data sheet complies with the requirements of: 2012 OSHA Hazard Communication Standard (29CFR 1910.1200)

Product name ANSULITE 3% FREEZE PROTECTED AFFF Foam Concentrate

1. Identification

1.1. Product Identifier

Product name ANSULITE 3% FREEZE PROTECTED AFFF Foam Concentrate

1.2. Other means of identification

Product code 054783
Synonyms None
Chemical Family No information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use Fire extinguishing agent.
Uses advised against Consumer use.

1.4. Details of the Supplier of the Safety Data Sheet

Company Name Tyco Fire Protection Products
One Stanton Street
Marinette, WI 54143-2542
Telephone: 715-735-7411
Contact point Product Stewardship at 1-715-735-7411
E-mail address psra@tycofp.com

1.5. Emergency Telephone Number

Emergency telephone CHEMTREC 001-800-424-9300 or 001-703-527-3887

2. Hazards Identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral - Category 4
Serious eye damage/eye irritation - Category 2A

2.2. Label Elements

Signal Word
WARNING

Hazard Statements
Harmful if swallowed
Causes serious eye irritation

Precautionary Statements

Prevention
Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Disposal
Dispose of contents/container to an approved waste disposal plant.

2.3. Hazards Not Otherwise Classified (HNOC)
Not Applicable.

2.4. Other Information
Unknown Acute Toxicity — 52.4234% of the mixture consists of ingredient(s) of unknown toxicity

3. Composition/information on Ingredients

3.1. Mixture
The following component(s) in this product are considered hazardous under applicable OSHA(USA)

Chemical name	CAS No.	weight-%
Ethylene Glycol	107-21-1	15 - 40
2-(2-Butoxyethoxy)ethanol	112-34-5	10 - 30
Polyfluorinated alkyl betaine	Proprietary	1 - 5
Lauryl Imino Propionate, Sodium Salt	14960-06-6	1 - 5

4. First aid measures

4.1. Description of first aid measures
General Advice — If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.

Eye Contact — Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact — Wash skin with soap and water. Get medical attention if irritation develops and persists.

Inhalation — Remove to fresh air. If breathing is difficult, give oxygen. (Get medical attention immediately if symptoms occur.).

Ingestion — Rinse mouth. Do not induce vomiting without medical advice. If swallowed, call a poison control center or physician immediately.

4.2. Most Important Symptoms and Effects, Both Acute and Delayed
Symptoms — No information available.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed
Note to physicians — Treat symptomatically.

5. Fire-fighting measures

5.1. Suitable Extinguishing Media
Product is extinguishing agent. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Unsuitable Extinguishing Media
None.

5.3. Specific Hazards Arising from the Chemical
None known.

Hazardous Combustion Products Carbon oxides, Fluorinated oxides, Nitrogen oxides (NOx), Oxides of sulfur

5.4. Explosion Data
Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

5.5. Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal Precautions Ensure adequate ventilation, especially in confined areas.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental Precautions

Environmental Precautions Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Pick up and transfer to properly labeled containers.

7. Handling and Storage

7.1. Precautions for Safe Handling

Advice on safe handling Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Materials Strong oxidizing agents. Strong acids. Strong bases.

8. Exposure Controls/Personal Protection

8.1. Control Parameters

Exposure guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico OEL
Ethylene Glycol 107-21-1	STEL: 50 ppm vapor fraction STEL: 10 mg/m³ inhalable particulate matter, aerosol only TWA: 25 ppm vapor fraction	-	-	100 mg/m³ (Ceiling)
2-(2-Butoxyethoxy)ethanol 112-34-5	TWA: 10 ppm inhalable fraction and vapor	-	-	-

ACGIH (American Conference of Governmental Industrial Hygienists) OSHA (Occupational Safety and Health Administration of the US Department of Labor) NIOSH IDLH Immediately Dangerous to Life or Health

8.2. Appropriate Engineering Controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

8.3. Individual protection measures, such as personal protective equipment

Eye/Face Protection Avoid contact with eyes. Tight sealing safety goggles.

Skin and Body Protection Wear protective gloves and protective clothing.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Ventilation Use local exhaust or general dilution ventilation to control exposure with applicable limits

8.4. General hygiene considerations

Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State Liquid
Odor Characteristic
Color Light yellow
Odor Threshold No data available

Property	Values	Remarks • Method
pH	No data available	

Melting point/freezing point	No data available
Boiling point / boiling range	> 100 °C / 212 °F
Flash Point	> 100 °C / > 212 °F
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Flammability limit in air	
Upper flammability limit:	No data available
Lower flammability limit:	No data available
Vapor Pressure	No data available
Vapor Density	No data available
Specific gravity	No data available
Water Solubility	No data available
Solubility in Other Solvents	No data available
Partition coefficient	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Kinematic viscosity	No data available

10. Stability and Reactivity

10.1. Chemical Stability

Stable under recommended storage conditions.

10.2. Reactivity

No data available

10.3. Possibility of hazardous reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

10.4. Conditions to Avoid

Extremes of temperature and direct sunlight.

10.5. Incompatible Materials

Strong oxidizing agents. Strong acids. Strong bases.

10.6. Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx). Oxides of sulfur. Fluorinated oxides.

11. Toxicological Information

11.1. Information on Likely Routes of Exposure

Product information

Inhalation No data available.

Eye Contact Severely irritating to eyes.

Skin contact No data available.

Ingestion Harmful if swallowed.

Component Information

Acute Toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Ethylene Glycol 107-21-1	= 4700 mg/kg (Rat)	= 10600 mg/kg (Rat) = 9530 µL/kg (Rabbit)	-
2-(2-Butoxyethoxy)ethanol 112-34-5	= 5660 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	-

11.2. Information on Toxicological Effects

Symptoms No information available.

11.3. Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin Corrosion/Irritation No information available.
Serious eye damage/eye irritation Severely irritating to eyes.
Sensitization No information available.
Germ Cell Mutagenicity No information available.
Carcinogenicity No information available.
Reproductive Toxicity No information available.
STOT - Single Exposure No information available.
STOT - Repeated Exposure No information available.
Target organ effects Central Nervous System, Eyes, Respiratory System, Skin.
Aspiration Hazard No information available.

11.4. Numerical Measures of Toxicity - Product information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 1316 mg/kg
ATEmix (dermal) 18115 mg/kg

12. Ecological Information

12.1. Ecotoxicity

0.0264% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical name	Algae/aquatic plants	Fish	Crustacea
Ethylene Glycol 107-21-1	EC50 (96h) 6500 - 13000 mg/L Pseudokirchneriella subcapitata	LC50 (96h) static 40000 - 60000 mg/L Pimephales promelas LC50 (96h) static = 27540 mg/L Lepomis macrochirus LC50 (96h) = 41000 mg/L Oncorhynchus mykiss LC50 (96h) static 14 - 18 mL/L Oncorhynchus mykiss LC50 (96h) static = 16000 mg/L Poecilia reticulata LC50 (96h) static = 40761 mg/L Oncorhynchus mykiss	EC50 (48h) = 46300 mg/L Daphnia magna
2-(2-Butoxyethoxy)ethanol 112-34-5	EC50 (96h) > 100 mg/L Desmodesmus subspicatus	LC50 (96h) static = 1300 mg/L Lepomis macrochirus	EC50 (48h) > 100 mg/L Daphnia magna EC50 (24h) = 2850 mg/L Daphnia magna
1,2-Propanediol 57-55-6	EC50 (96h) = 19000 mg/L Pseudokirchneriella subcapitata	LC50 (96h) static = 51600 mg/L Oncorhynchus mykiss LC50 (96h)	EC50 (48h) Static > 1000 mg/L Daphnia magna EC50 (24h) >

		static = 51400 mg/L Pimephales promelas LC50 (96h) = 710 mg/L Pimephales promelas LC50 (96h) static 41 - 47 mL/L Oncorhynchus mykiss	10000 mg/L Daphnia magna
Polyethylene Glycol 25322-68-3	-	LC50 (24h) > 5000 mg/L Carassius auratus	-

Concentrate

Method	Biological Test Method: Acute Lethality Using Threespine Stickleback (Gasterosteus aculeatus) (EPS 1/RM/10)
Species	Gasterosteus aculeatus
Endpoint type	LC50
Effective dose	3,180 mg/L
Exposure time	96h

3% Solution

Method	Biological Test Method: Acute Lethality Using Threespine Stickleback (Gasterosteus aculeatus) (EPS 1/RM/10)
Species	Gasterosteus aculeatus
Endpoint type	LC50
Effective dose	67,090 mg/L
Exposure time	96h

12.2. Persistence and Degradability

.

Chemical Oxygen Demand (mg/L)

Concentrate	750,000
3% Solution	23,000

Concentrate Biological Oxygen Demand (mg/L)

Biological Oxygen Demand (5 Day)	22000
%BOD/COD	2.93
Biological Oxygen Demand (10 Day)	440000
%BOD/COD	58.67
Biological Oxygen Demand (15 Day)	470000
%BOD/COD	62.67
Biological Oxygen Demand (20 Day)	500000
%BOD/COD	66.67

3% Solution Biological Oxygen Demand (mg/L)

Biological Oxygen Demand (5 Day)	300
%BOD/COD	1.30
Biological Oxygen Demand (10 Day)	13000
%BOD/COD	56.52
Biological Oxygen Demand (15 Day)	15000
%BOD/COD	65.22
Biological Oxygen Demand (20 Day)	16000
%BOD/COD	69.57

12.3. Bioaccumulation

No information available.

Chemical name	Partition coefficient
Ethylene Glycol 107-21-1	-1.93

12.4. Other Adverse Effects
No information available

13. Disposal Considerations

13.1. Waste Treatment Methods
Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Do not reuse container.

14. Transport Information

DOT NOT REGULATED

TDG NOT REGULATED

MEX NOT REGULATED

ICAO (air) NOT REGULATED

IATA NOT REGULATED

IMDG NOT REGULATED

15. Regulatory Information

15.1. International Inventories
TSCA	Complies
DSL/NDSL	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Does not comply
AICS	Complies

Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

15.2. US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	SARA 313 - Threshold Values %
Ethylene Glycol - 107-21-1	1.0
2-(2-Butoxyethoxy)ethanol - 112-34-5	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic health hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Ethylene Glycol 107-21-1	5000 lb	-	RQ 5000 lb final RQ RQ 2270 kg final RQ

15.3. US State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical name	California Proposition 65
Ethylene Glycol - 107-21-1	Developmental

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Ethylene Glycol 107-21-1	X	X	X
2-(2-Butoxyethoxy)ethanol 112-34-5	X	-	X
1,2-Propanediol 57-55-6	X	-	X

16. Other information, including date of preparation of the last revision

NFPA	**Health Hazards** 2	**Flammability** 1	**Instability** 0	**Physical and chemical properties** -
HMIS	**Health Hazards** 2	**Flammability** 1	**Physical Hazards** 0	**Personal Protection** X

Revision date 31-Jul-2017
Revision note SDS sections updated, 12.
Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the

date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

ANSULITE 3% Freeze-Protected AFFF Concentrate

009141

Description

ANSULITE 3% Freeze-Protected AFFF (Aqueous Film-Forming Foam) Concentrate is formulated from specialty fluorochemical and hydrocarbon type surfactants along with solvents. It is transported and stored as a concentrate to provide ease of use and considerable savings in weight and volume.

It is intended for use as a 3% proportioned solution in fresh, salt or hard water. It may also be used and stored as a 3% premixed solution in fresh or potable water only. However, the diluted solution will freeze at 32 °F (0 °C). The correct proportioning mixture ratio is 3 parts concentrate to 97 parts water.

Three fire suppressing mechanisms are in effect when using ANSULITE 3% Freeze-Protected AFFF Concentrate. First, an aqueous film is formed which works to help prevent the release of fuel vapor. Second, the foam blanket from which the film-forming liquid drains effectively excludes oxygen from the fuel surface. Third, the water content of the foam provides a cooling effect.

TYPICAL PHYSIOCHEMICAL PROPERTIES AT 77 °F (25 °C)

Appearance	Colorless to Pale Yellow Liquid
Density	1.050 g/ml ± 0.025
pH	7.0 – 8.5
Refractive Index	1.3910 ± 0.0030
Surface Tension (3% Solution)	18 ± 1 dynes/cm
Viscosity	7 ± 2 centistokes

Application

ANSULITE 3% Freeze-Protected AFFF Concentrate is intended for use on Class B hydrocarbon fuel fires having low water solubility such as various crude oils, gasolines, diesel fuels, aviation fuels, etc. **It is not suitable for use on fuels having appreciable water solubility (polar solvents), i.e., methyl and ethyl alcohol, acetone, and methyl ethyl ketone.** It can be used with both aspirating and non-aspirating discharge devices because of the low energy required to make it foam.

The excellent wetting characteristics make it useful in combating Class A fires as well. It can be used with dry chemical suppressing agents without regard to the order of application to provide even greater fire protection capability.

Fire Performance

ANSULITE 3% Freeze-Protected AFFF Concentrate has been tested to Underwriters Laboratories Standard UL 162. Reports covering this fire performance are available on request since standards and specifications such as those cited are continuously being upgraded and changed.

Foaming Properties

When used with fresh, salt or hard water at the correct dilution with most conventional foam making equipment, the expansion ratio will vary depending on the performance characteristics of the equipment. Aspirating discharge devices produce expansion ratios of 6:1 to 10:1 depending primarily on type of aspirating device and flow rate. Subsurface injection is a special case where generally expansion ratios of 2:1 to 3:1 are preferred but up to 4:1 is allowed. Non-aspirating devices such as handline water fog/stream nozzles or standard sprinkler heads give expansion ratios of 2:1 to 4:1.

Proportioning

ANSULITE 3% Freeze-Protected AFFF Concentrate can be proportioned easily at the correct dilution using most conventional proportioning equipment such as:

1. Balanced pressure and in-line balanced pressure pumped proportioning equipment
2. Balanced pressure bladder tank proportioners
3. Around-the-pump type proportioners
4. Fixed or portable (in-line) venturi type proportioners
5. Handline nozzles with fixed induction/pickup tubes

The usable temperature range for ANSULITE 3% Freeze-Protected AFFF Concentrate with this equipment is –20 °F to 120 °F (–29 °C to 49 °C).

One Stanton Street / Marinette, WI 54143-2542, USA / +1-715-735-7411 / www.ansul.com

Storage/Shelf Life

When stored in the packaging supplied (polyethylene drums or pails) or in equipment recommended by the manufacturer as part of the foam system and within the temperature limits specified, the shelf life of ANSULITE 3% Freeze-Protected AFFF Concentrate may exceed 20 years. The factors affecting shelf life and stability for ANSULITE AFFF Agents are discussed in detail in ANSUL® Technical Bulletin No. 54. If the product is frozen during storage or transportation, thawing will render the product completely usable. Gentle mixing after freeze-thaw cycle is recommended.

Compatibility

Refer to ANSUL Technical Bulletin No. 64 for a more detailed discussion of compatibility.

Different types of foam concentrates, i.e., AFFF, protein base etc., should not be mixed under any circumstances.

Materials of Construction Compatibility

Tests have been performed with ANSULITE AFFF concentrates verifying compatibility with standard carbon steel "black" pipe and pipe manufactured from various stainless steel or brass compounds. Alternative pipe, fittings, and valves may be used in some cases if acceptable to the customer and/or the authority having jurisdiction. Refer to ANSUL Technical Bulletin No. 59 addressing acceptable materials of construction for use with ANSUL foam concentrates.

Galvanized pipe and fittings must not be used in areas where undiluted concentrate will contact them since corrosion will result.

Please **first** consult Tyco Fire Protection Products for specific guidelines concerning materials of construction.

Inspection

As with any fire suppressing agent, ANSULITE 3% Freeze-Protected AFFF Concentrate, whether in the concentrate or pre-mixed form, should be inspected periodically per requirements of NFPA 11 "Standard for Low-, Medium-, and High-Expansion Foam." Annually submit samples to the manufacturer or a qualified laboratory for quality condition testing. Refer to the Field Inspection Manual (Part No. 31274) for detailed inspection procedures. An annual inspection is recommended unless unusual conditions of exposure occur such as described in ANSUL Technical Bulletin No. 54. In such cases, contact Tyco Fire Protection Products for more information.

Approvals and Listings

ANSULITE 3% Freeze-Protected AFFF Concentrate is approved, qualified under, listed or meets the requirements of the following specifications and standards:

Underwriters Laboratories Inc. – UL Standard 162

1. Foam Quality Tests
2. Class B Hydrocarbon Fuel Fire Tests
3. Foam Identification Tests
4. Tests of Shipping Containers
5. Class B Hydrocarbon Fuel Sprinkler Tests (Standard type both upright and pendent approvals only)

It is impractical to list ANSULITE 3% agent with every piece of UL listed hardware. Moreover, there are numerous foam hardware components without UL listings that cannot be listed for use with any AFFF concentrate.

Many unlisted pieces of foam hardware should be similar to those listed. However, on installations where ANSULITE 3% may be used with significantly different hardware components than those tested, contact Technical Services for recommendations.

Ordering Information

ANSULITE 3% Freeze-Protected AFFF Concentrate is available in pails, drums, totes, or bulk shipment.

Part No.	Description	Shipping Weight	Cube
54783	Pail 5 gal (19 L)	45 lb (20.4 kg)	1.25 ft^3 (0.035 m^3)
54892	Drum 55 gal (208 L)	495 lb (224.5 kg)	11.83 ft^3 (0.335 m^3)
432161	Tote 265 gal (1000 L)	2465 lb (1118 kg)	50 ft^3 (1.42 m^3)
54660	Bulk Order	Contact Technical Services	

Note: The converted metric values in this document are provided for dimensional reference only and do not reflect an actual measurement.

AASF # 3

Jackson, TN

Jackson, TN 38301

Inquiry Number: 5371648.3

July 24, 2018

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

07/24/18

Site Name:	Client Name:
AASF # 3	AECOM
Jackson, TN	12120 Shamrock Plaza
Jackson, TN 38301	Omaha, NE 68154
EDR Inquiry # 5371648.3	Contact: Brittany Kirchmann

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by AECOM were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 22FE-4C85-BE0E

PO # NA

Project 60552172.0005-TN-PA-TN

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 22FE-4C85-BE0E

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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AECOM (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

AASF # 3

Jackson, TN

Jackson, TN 38301

Inquiry Number: 5371648.5

July 25, 2018

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

07/25/18

Site Name:

AASF # 3
Jackson, TN
Jackson, TN 38301
EDR Inquiry # 5371648.5

Client Name:

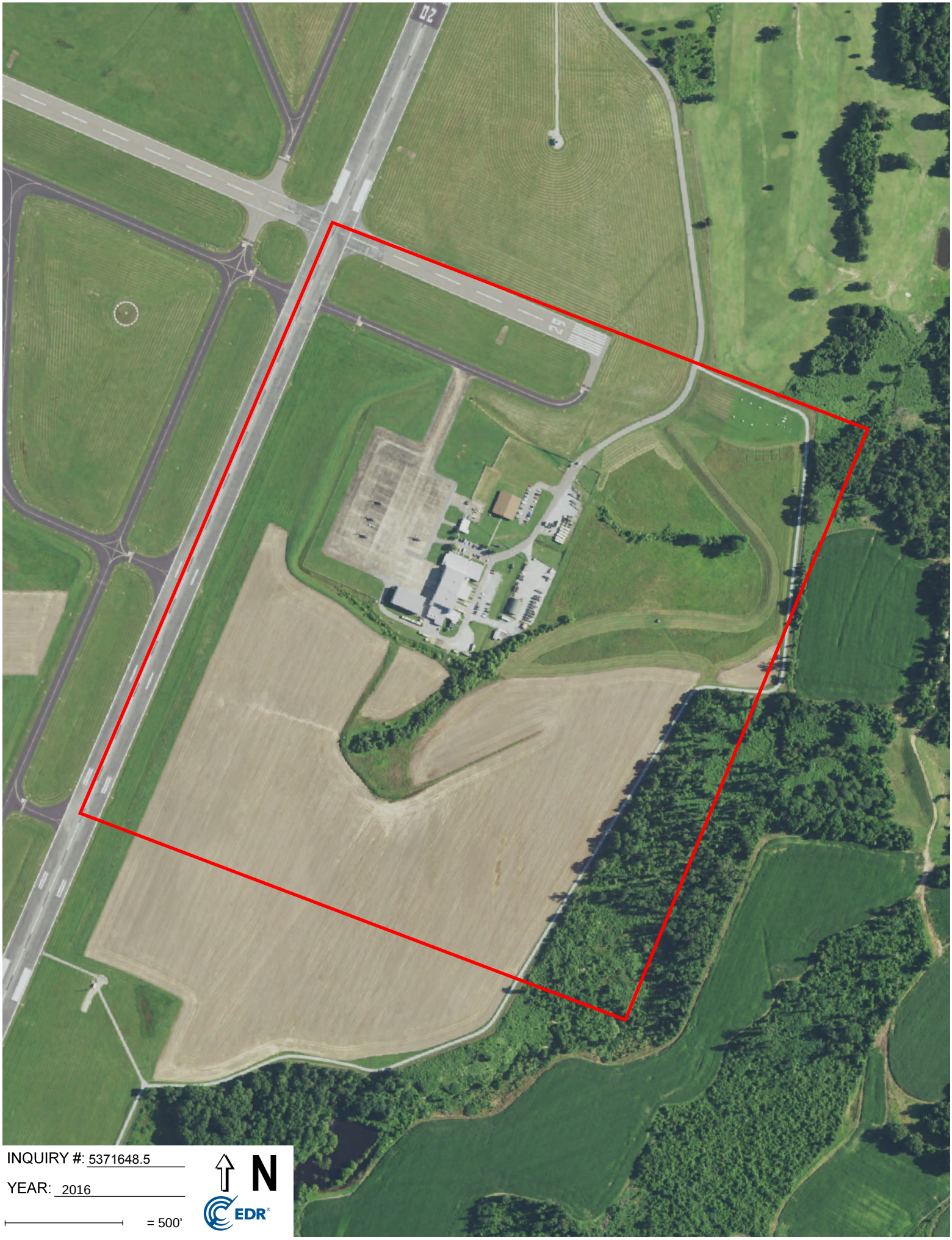
AECOM
12120 Shamrock Plaza
Omaha, NE 68154
Contact: Brittany Kirchmann

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	*Scale*	*Details*	*Source*
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2008	1"=500'	Flight Year: 2008	USDA/NAIP
1997	1"=500'	Acquisition Date: February 01, 1997	USGS/DOQQ
1992	1"=750'	Flight Date: April 04, 1992	USGS
1985	1"=500'	Flight Date: March 18, 1985	USDA
1975	1"=500'	Flight Date: October 15, 1975	USGS
1956	1"=500'	Flight Date: March 17, 1956	USGS
1952	1"=500'	Flight Date: November 12, 1952	USGS
1947	1"=500'	Flight Date: April 06, 1947	USGS

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.



INQUIRY #: 5371648.5

YEAR: 2016

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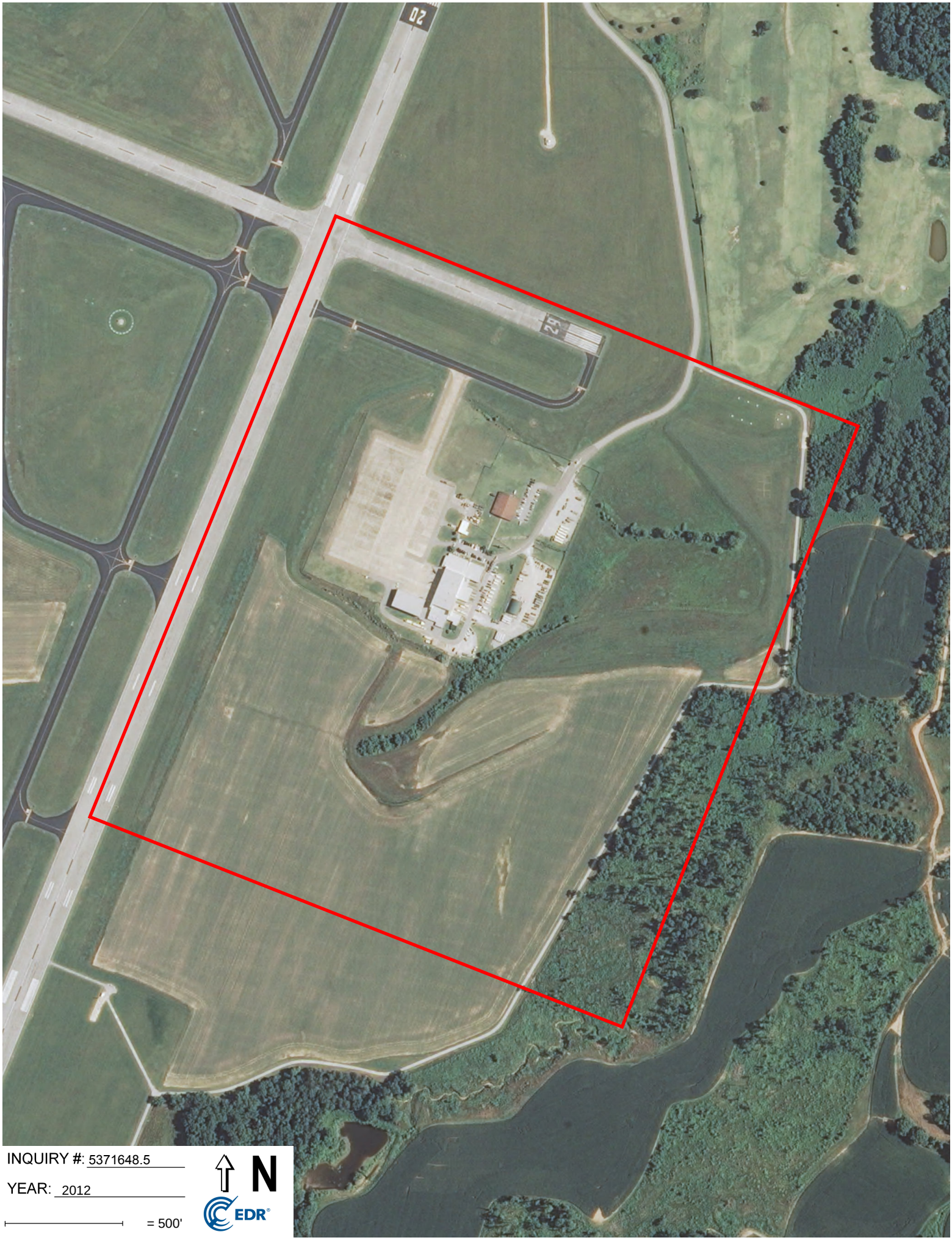
EDR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EDR

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YEAR: 2008

= 500'

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EDR

INQUIRY #: 5371648.5

YEAR: 1997

= 500'

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EDR

INQUIRY #: 5371648.5

YEAR: 1992

= 750'

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EDR

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YEAR: 1985

= 500'

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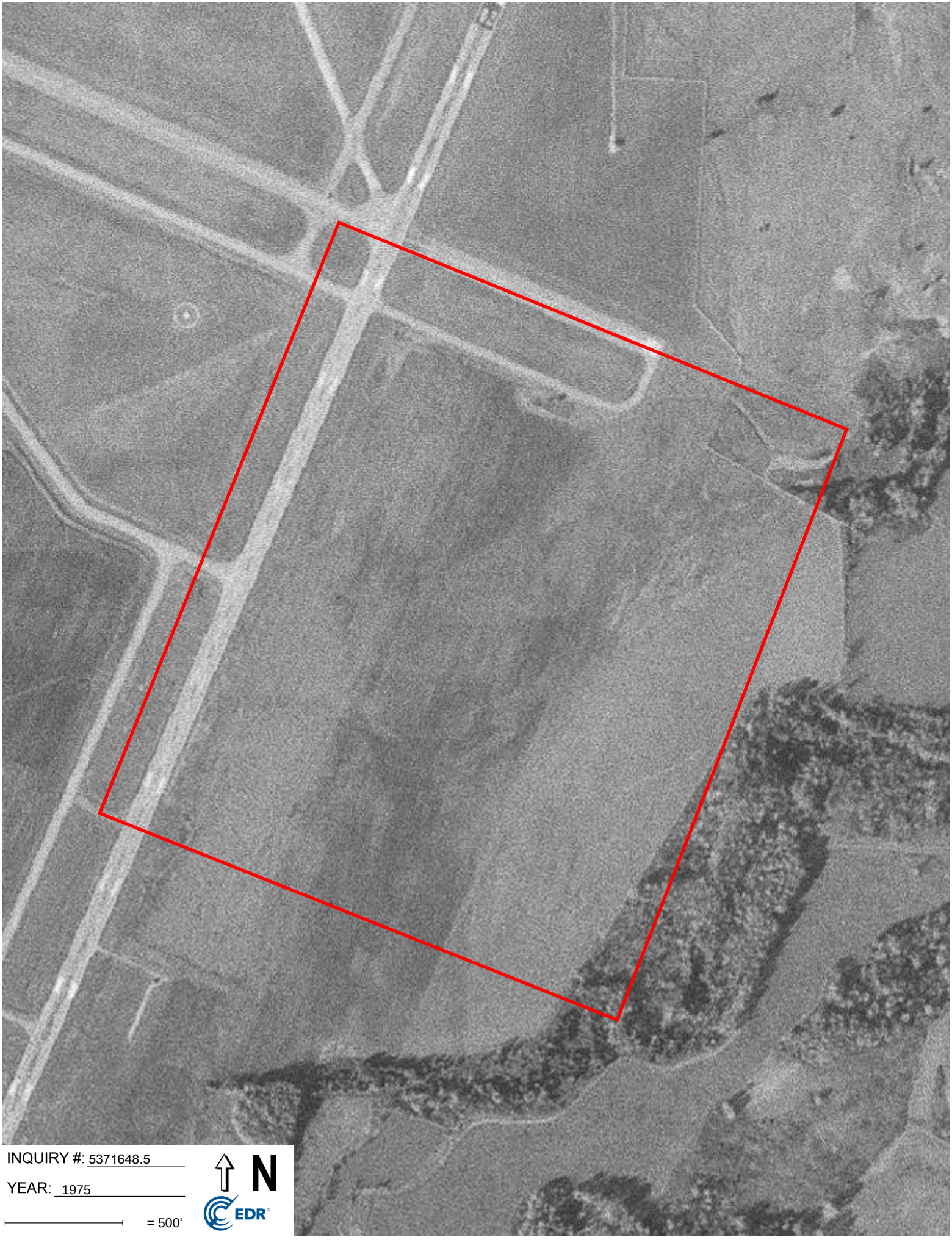
EDR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YEAR: 1975
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EDR

INQUIRY #: 5371648.5

YEAR: 1956

= 500'

N

EDR

INQUIRY #: 5371648.5

YEAR: 1952

= 500'

N

EDR


INQUIRY #: 5371648.5
YEAR: 1947
= 500'
N
EDR

AASF # 3
Jackson, TN
Jackson, TN 38301

Inquiry Number: 5371648.2s
July 24, 2018

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

JACKSON, TN
JACKSON, TN 38301

COORDINATES

Latitude (North):	35.5983950 - 35° 35' 54.22''
Longitude (West):	88.9130850 - 88° 54' 47.10''
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	326693.7
UTM Y (Meters):	3940891.2
Elevation:	420 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5944486 WESTOVER, TN
Version Date:	2013

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140701
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
JACKSON, TN
JACKSON, TN 38301

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	OWENS CORNING LANDFI	OWENS CORNING LANDFI	SWF/LF	Lower	2557, 0.484, East

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG ---------- RCRA - Large Quantity Generators
RCRA-SQG ---------- RCRA - Small Quantity Generators
RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List

US INST CONTROL Sites with Institutional Controls

Federal ERNS list

ERNS Emergency Response Notification System

State- and tribal - equivalent NPL

SHWS List of Inactive Hazardous Substance Sites

State and tribal leaking storage tank lists

LUST Leaking Underground Storage Tank Database Listing
INDIAN LUST Leaking Underground Storage Tanks on Indian Land
LUST TRUST LUST TRUST Fund Database
HIST_LUST CO Leaking Underground Storage Tanks Sites

State and tribal registered storage tank lists

FEMA UST Underground Storage Tank Listing
UST Facility and Tank Report
AST Aboveground Storage Tanks
INDIAN UST Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

ENG CONTROLS Engineering Control Sites
INST CONTROL Institutional Control Sites

State and tribal voluntary cleanup sites

INDIAN VCP Voluntary Cleanup Priority Listing
VCP Voluntary Cleanup, Oversight and Assistance Program Sites
SRP State Remediation Program List

State and tribal Brownfields sites

BROWNFIELDS Superfund VOAP Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY Recycling Facilities Listing
INDIAN ODI Report on the Status of Open Dumps on Indian Lands
DEBRIS REGION 9 Torres Martinez Reservation Illegal Dump Site Locations
ODI Open Dump Inventory
IHS OPEN DUMPS Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL Delisted National Clandestine Laboratory Register

CDL ..... Registry of Contaminated Properties
PRIORITYCLEANERS ..... DCERP Remediation Sites Listing
DEL SHWS ..... Deleted State Hazardous Waste Sites
US CDL ..... National Clandestine Laboratory Register

Local Lists of Registered Storage Tanks

HIST UST ..... Underground Storage Tank Database

Local Land Records

LIENS ..... Liens Information
LIENS 2 ..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System
SPILLS ..... State Spills

Other Ascertainable Records

RCRA NonGen / NLR ..... RCRA - Non Generators / No Longer Regulated
FUDS ..... Formerly Used Defense Sites
DOD ..... Department of Defense Sites
SCRD DRYCLEANERS ..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ..... Financial Assurance Information
EPA WATCH LIST ..... EPA WATCH LIST
2020 COR ACTION ..... 2020 Corrective Action Program List
TSCA ..... Toxic Substances Control Act
TRIS ..... Toxic Chemical Release Inventory System
SSTS ..... Section 7 Tracking Systems
ROD ..... Records Of Decision
RMP ..... Risk Management Plans
RAATS ..... RCRA Administrative Action Tracking System
PRP ..... Potentially Responsible Parties
PADS ..... PCB Activity Database System
ICIS ..... Integrated Compliance Information System
FTTS ..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ..... Material Licensing Tracking System
COAL ASH DOE ..... Steam-Electric Plant Operation Data
COAL ASH EPA ..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ..... PCB Transformer Registration Database
RADINFO ..... Radiation Information Database
HIST FTTS ..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ..... Incident and Accident Data
CONSENT ..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV ..... Indian Reservations
FUSRAP ..... Formerly Utilized Sites Remedial Action Program
UMTRA ..... Uranium Mill Tailings Sites
LEAD SMELTERS ..... Lead Smelter Sites
US AIRS ..... Aerometric Information Retrieval System Facility Subsystem
US MINES ..... Mines Master Index File
ABANDONED MINES ..... Abandoned Mines
FINDS ..... Facility Index System/Facility Registry System

UXO ---------- Unexploded Ordnance Sites
DOCKET HWC ---------- Hazardous Waste Compliance Docket Listing
ECHO ---------- Enforcement & Compliance History Information
FUELS PROGRAM ---------- EPA Fuels Program Registered Listing
AIRS ---------- Listing of Permitted Sources
DRYCLEANERS ---------- Registered Facilities List
LEAD ---------- Lead Safe Housing Registry
NPDES ---------- Permitted Facility Listing
VAPOR ---------- Vapor Intrusion

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP ---------- EDR Proprietary Manufactured Gas Plants
EDR Hist Auto ---------- EDR Exclusive Historical Auto Stations
EDR Hist Cleaner ---------- EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF ---------- Recovered Government Archive Solid Waste Facilities List
RGA LUST ---------- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Department of Environment & Conservation's list: Sanitary, Industrial, Demolition, Solid Waste Processing Facilities and Closed Landfills.

A review of the SWF/LF list, as provided by EDR, and dated 03/12/2018 has revealed that there is 1 SWF/LF site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
OWENS CORNING LANDFI	OWENS CORNING LANDFI	E 1/4 - 1/2 (0.484 mi.)	1	8

EXECUTIVE SUMMARY

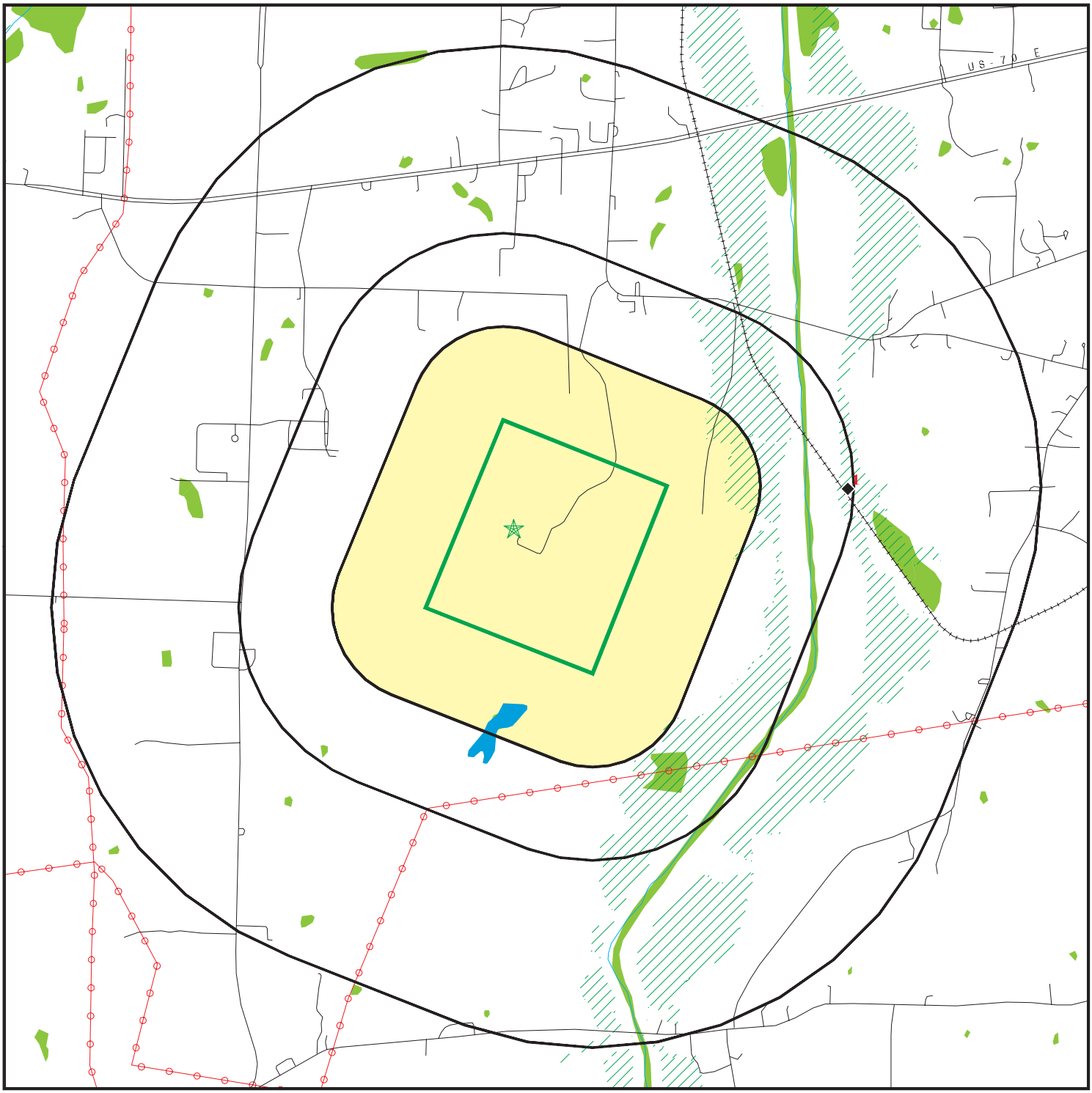
Status: Inactive
Facility Id: IDL570000019

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name	Database(s)
OWENS-CORNING LDFL SITE	SEMS-ARCHIVE

OVERVIEW MAP - 5371648.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

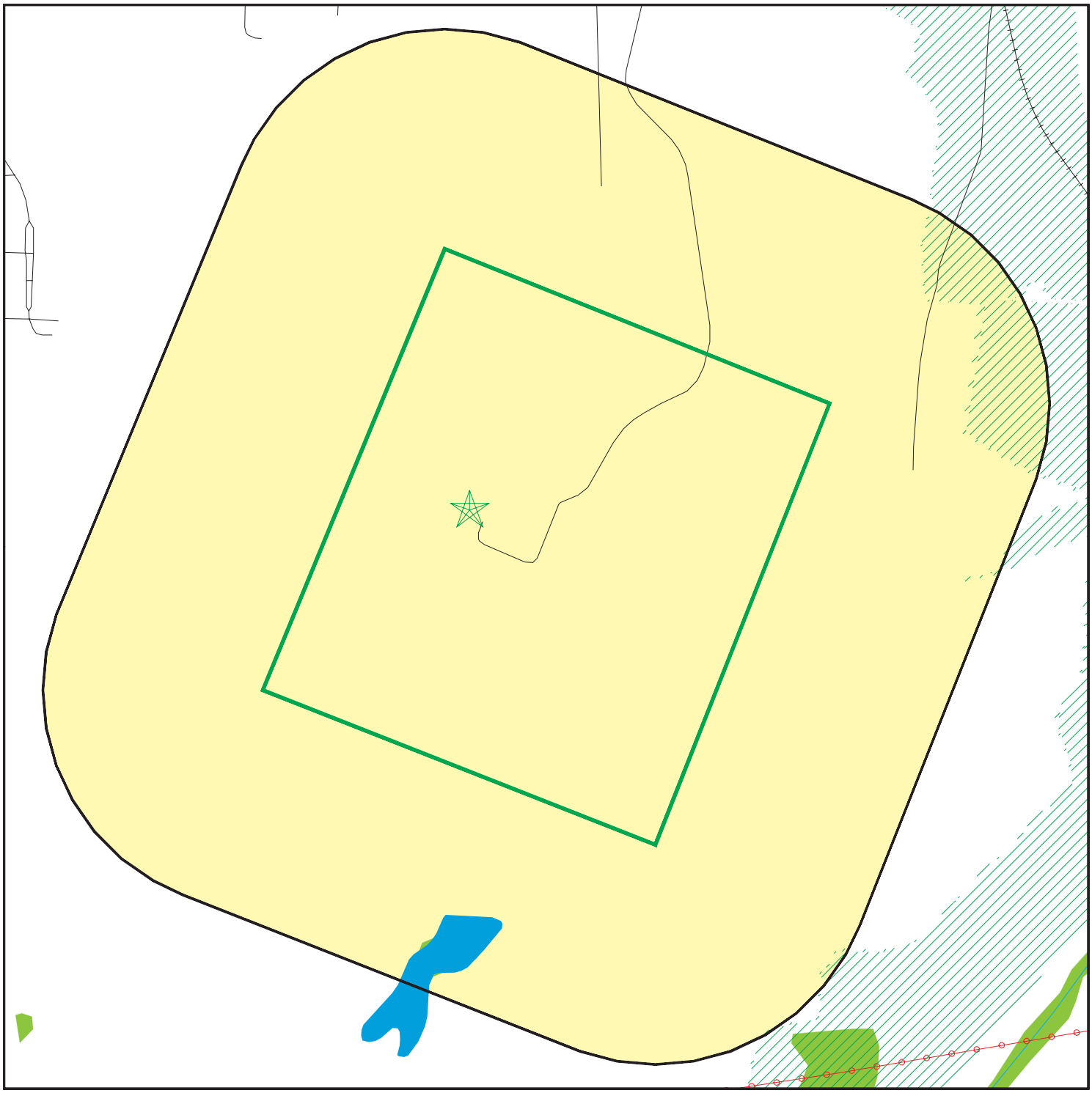
Upgradient Area

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: AASF # 3	CLIENT: AECOM
ADDRESS: Jackson, TN Jackson TN 38301	CONTACT: Brittany Kirchmann
LAT/LONG: 35.598395 / 88.913085	INQUIRY #: 5371648.2s DATE: July 24, 2018 4:41 pm

DETAIL MAP - 5371648.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: AASF # 3	CLIENT: AECOM
ADDRESS: Jackson, TN Jackson TN 38301	CONTACT: Brittany Kirchmann
LAT/LONG: 35.598395 / 88.913085	INQUIRY #: 5371648.2s DATE: July 24, 2018 4:45 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
SHWS	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		0	0	1	NR	NR	1
State and tribal leaking storage tank lists								
LUST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
LUST TRUST	0.500		0	0	0	NR	NR	0
HIST_LUST CO	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
ENG CONTROLS	0.500		0	0	0	NR	NR	0
INST CONTROL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
VCP	0.500		0	0	0	NR	NR	0
SRP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
PRIORITYCLEANERS	0.500		0	0	0	NR	NR	0
DEL SHWS	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
HIST UST	0.250		0	0	NR	NR	NR	0
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
SPILLS	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
LEAD	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
VAPOR	0.500		0	0	0	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	0	0	1	0	0	1

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1
East
1/4-1/2
0.484 mi.
2557 ft.

OWENS CORNING LANDFILL
OWENS CORNING LANDFILL
MADISON (County), TN 38301

SWF/LF **S107031100**
N/A

Relative:
Lower

Actual:
361 ft.

SWF/LF:

Facility ID:	IDL570000019
Status:	Inactive
Permittee:	OWENS CORNING
Issuance:	01/01/1979
Mailing Address:	Westover Road At Johnson Crk
Mailing City:	Jackson
Latitude:	35.6
Longitude:	-88.897222
Permit ID:	738
Site ID:	10021
Application to NCO:	Not reported
Activity:	INDUSTRIAL LANDFILL

Count: 1 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
JACKSON	1003868569	OWENS-CORNING LDFL SITE	WESTOVER RD	38301	SEMS-ARCHIVE

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 05/13/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 05/13/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 05/13/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 23

Source: EPA
Telephone: N/A
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 05/18/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 23

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 05/18/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 23

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 05/14/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/09/2018
Next Scheduled EDR Contact: 08/27/2018
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/13/2018
Date Data Arrived at EDR: 02/27/2018
Date Made Active in Reports: 05/11/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/29/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/13/2018
Date Data Arrived at EDR: 02/27/2018
Date Made Active in Reports: 05/11/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/29/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/19/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 73

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/27/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

SHWS: Promulgated Sites

"Inactive hazardous substance sites that constitute an imminent, substantial danger" is an inactive hazardous substance site where there is a threat of danger to the public health, safety, or environment which is both real and presently existing. Such situations may include, but are not limited to one or more of the following: an immediate action is necessary to minimize an ongoing threat to the public health or pollution of the environment, an inactive hazardous substance site where there is an active release, where direct access to the hazardous substance is not controlled, or where incompatible hazardous substances are found in close proximity. Also known as Promulgated Sites List.

Date of Government Version: 06/27/2016
Date Data Arrived at EDR: 07/08/2016
Date Made Active in Reports: 09/16/2016
Number of Days to Update: 70

Source: Department of Environment & Conservation
Telephone: 615-532-0900
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Semi-Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Disposal Facilities

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 03/12/2018
Date Data Arrived at EDR: 03/15/2018
Date Made Active in Reports: 03/23/2018
Number of Days to Update: 8

Source: Department of Environment and Conservation
Telephone: 615-532-0804
Last EDR Contact: 06/14/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST: Fund Eligible Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank site locations.

Date of Government Version: 05/14/2018
Date Data Arrived at EDR: 05/15/2018
Date Made Active in Reports: 06/01/2018
Number of Days to Update: 17

Source: Department of Environment and Conservation
Telephone: 615-532-0945
Last EDR Contact: 05/14/2018
Next Scheduled EDR Contact: 08/27/2018
Data Release Frequency: Semi-Annually

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 05/16/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

LUST TRUST: LUST TRUST Fund Database

This list contains information on sites that had accidental releases of petroleum and are eligible for reimbursement from the TN Petroleum UST Fund.

Date of Government Version: 05/14/2018
Date Data Arrived at EDR: 05/15/2018
Date Made Active in Reports: 06/01/2018
Number of Days to Update: 17

Source: Department of Environment & Conservation
Telephone: 615-532-0971
Last EDR Contact: 05/14/2018
Next Scheduled EDR Contact: 08/27/2018
Data Release Frequency: Semi-Annually

HIST_LUST CO: Leaking Underground Storage Tanks Sites

A listing of leaking underground storage tank site locations from the Columbia Field Office. The listing is no longer updated.

Date of Government Version: 10/18/1994
Date Data Arrived at EDR: 10/24/1994
Date Made Active in Reports: 12/30/1994
Number of Days to Update: 67

Source: Department of Environmental Conservation, Columbia Field Office
Telephone: 931-380-3371
Last EDR Contact: 06/29/2009
Next Scheduled EDR Contact: 09/28/2009
Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 05/15/2017
Date Data Arrived at EDR: 05/30/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 136

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Varies

UST: Facility and Tank Report

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

Date of Government Version: 05/14/2018
Date Data Arrived at EDR: 05/15/2018
Date Made Active in Reports: 06/01/2018
Number of Days to Update: 17

Source: Department of Environment and Conservation
Telephone: 615-532-0945
Last EDR Contact: 05/14/2018
Next Scheduled EDR Contact: 08/27/2018
Data Release Frequency: Semi-Annually

AST: Aboveground Storage Tanks

Registered Aboveground Storage Tanks.

Date of Government Version: 10/01/1999
Date Data Arrived at EDR: 10/12/1999
Date Made Active in Reports: 11/05/1999
Number of Days to Update: 24

Source: Department of Environment and Conservation
Telephone: 615-532-0965
Last EDR Contact: 07/20/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: No Update Planned

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 04/25/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/24/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 04/12/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 05/08/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 05/16/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 04/13/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 04/10/2018
Date Data Arrived at EDR: 05/18/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 63
Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

ENG CONTROLS: Engineering Control Sites
Sites that have engineering controls.

Date of Government Version: 04/05/2018
Date Data Arrived at EDR: 04/10/2018
Date Made Active in Reports: 06/01/2018
Number of Days to Update: 52
Source: Department of Environment & Conservation
Telephone: 615-532-0900
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 08/27/2018
Data Release Frequency: Semi-Annually

INST CONTROL: Institutional Control Sites
Sites that have institutional controls.

Date of Government Version: 04/05/2018
Date Data Arrived at EDR: 04/10/2018
Date Made Active in Reports: 06/01/2018
Number of Days to Update: 52
Source: Department of Environment & Conservation
Telephone: 615-532-0900
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 08/27/2018
Data Release Frequency: Semi-Annually

State and tribal voluntary cleanup sites

VCP: Voluntary Cleanup, Oversight and Assistance Program Sites
The Voluntary Cleanup Oversight and Assistance Program (VOAP) offers people the opportunity to work proactively with state government to address necessary cleanup of a property to return it to productive use. In return for their efforts, participants can receive a No Further Action letter and a release of liability for areas where investigation and cleanup is conducted. The program is open to everyone with an interest in addressing contamination at a site.

Date of Government Version: 12/18/2017
Date Data Arrived at EDR: 01/05/2018
Date Made Active in Reports: 02/06/2018
Number of Days to Update: 32
Source: Department of Environmental & Conservation
Telephone: 615-532-0912
Last EDR Contact: 07/13/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Semi-Annually

SRP: State Remediation Program List
The State Remediation Program (SRP) was established in 1994 within the Division of Solid Waste Management for the purpose of providing owners, prospective purchasers and other interested parties the means to voluntarily investigate, clean up or monitor contaminated sites not regulated under RCRA, CERCLA or the Tennessee Division of Underground Tanks (UST).

Date of Government Version: 12/18/2017
Date Data Arrived at EDR: 01/05/2018
Date Made Active in Reports: 02/06/2018
Number of Days to Update: 32
Source: Department of Environemtn & Conservation
Telephone: 615-532-0853
Last EDR Contact: 07/13/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Semi-Annually

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/22/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Superfund VOAP Listing
Brownfields sites included on the Superfund Voluntary Cleanup, Oversight & Assistance Program listing.

Date of Government Version: 06/27/2016
Date Data Arrived at EDR: 07/08/2016
Date Made Active in Reports: 09/14/2016
Number of Days to Update: 68

Source: Department of Environment & Conservation
Telephone: 615-532-0912
Last EDR Contact: 06/29/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/19/2018
Date Data Arrived at EDR: 03/21/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/20/2018
Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Recycling Facilities Listing
A listing of recycling facility locations.

Date of Government Version: 12/11/2017
Date Data Arrived at EDR: 01/25/2018
Date Made Active in Reports: 03/12/2018
Number of Days to Update: 46

Source: Department of Environment & Conservation
Telephone: 615-532-8657
Last EDR Contact: 06/14/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 01/30/2018
Next Scheduled EDR Contact: 05/14/2018
Data Release Frequency: Varies

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 07/17/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: No Update Planned

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 05/04/2018
Next Scheduled EDR Contact: 08/13/2018
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/22/2018
Date Data Arrived at EDR: 03/01/2018
Date Made Active in Reports: 05/11/2018
Number of Days to Update: 71

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/30/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: No Update Planned

CDL: Registry of Contaminated Properties

Pursuant to TCA 68212509 the following properties have been quarantined because of methamphetamine production, but have not been cleaned and certified within the 60day time frame allotted by the statute. These properties are hereby registered by the Tennessee Department of Environment and Conservation as unremediated methamphetamine sites. This is not a comprehensive list of quarantined properties. These are properties that TDEC has been notified as being quarantined, but have not been cleaned within the 60 day grace period. Other properties where methamphetamine production residues are a concern may not have been quarantined, may not have been reported to TDEC, or may not have passed the 60day grace

Date of Government Version: 04/01/2018
Date Data Arrived at EDR: 05/03/2018
Date Made Active in Reports: 06/01/2018
Number of Days to Update: 29

Source: Department of Environment & Conservation
Telephone: 615-532-0900
Last EDR Contact: 05/03/2018
Next Scheduled EDR Contact: 08/13/2018
Data Release Frequency: Quarterly

PRIORITY CLEANERS: DCERP Remediation Sites Listing
Drycleaner Environmental Response Program remediation sites.

Date of Government Version: 01/29/2018
Date Data Arrived at EDR: 01/30/2018
Date Made Active in Reports: 03/07/2018
Number of Days to Update: 36
Source: Department of Environment & Conservation
Telephone: 615-253-3876
Last EDR Contact: 07/13/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Annually

DEL SHWS: Deleted State Hazardous Waste Sites
A listing of sites removed from the Promulgated Sites Listing.

Date of Government Version: 06/27/2016
Date Data Arrived at EDR: 07/08/2016
Date Made Active in Reports: 09/14/2016
Number of Days to Update: 68
Source: Department of Environment & Conservation
Telephone: 615-532-0900
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Varies

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/22/2018
Date Data Arrived at EDR: 03/01/2018
Date Made Active in Reports: 05/11/2018
Number of Days to Update: 71
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/30/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

HIST UST: Underground Storage Tank Database
This database is no longer updated by the agency. It contains records and detail fields that the current UST database does not.

Date of Government Version: 05/14/2018
Date Data Arrived at EDR: 05/15/2018
Date Made Active in Reports: 06/01/2018
Number of Days to Update: 17
Source: Department of Environment & Conservation
Telephone: 615-532-0945
Last EDR Contact: 05/14/2018
Next Scheduled EDR Contact: 08/27/2018
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Liens Information
A listing of sites with environmental liens information.

Date of Government Version: 03/10/2015
Date Data Arrived at EDR: 04/07/2015
Date Made Active in Reports: 04/30/2015
Number of Days to Update: 23
Source: Department of Environment & Conservation
Telephone: 615-532-0900
Last EDR Contact: 06/29/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 05/13/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 30

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/26/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 73

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/27/2018
Next Scheduled EDR Contact: 07/09/2018
Data Release Frequency: Quarterly

SPILLS: State Spills

A listing of spills locations.

Date of Government Version: 01/05/2015
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 02/10/2015
Number of Days to Update: 35

Source: Department of Environment & Conservation
Telephone: 615-532-0109
Last EDR Contact: 06/29/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Varies

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/28/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: (404) 562-8651
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/25/2018
Next Scheduled EDR Contact: 09/03/2018
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 07/13/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/15/2018
Next Scheduled EDR Contact: 08/27/2018
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/01/2018
Date Data Arrived at EDR: 03/27/2018
Date Made Active in Reports: 06/22/2018
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/27/2018
Next Scheduled EDR Contact: 10/08/2018
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 05/07/2018
Next Scheduled EDR Contact: 08/20/2018
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/08/2018
Next Scheduled EDR Contact: 08/20/2018
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/21/2017
Date Made Active in Reports: 01/05/2018
Number of Days to Update: 198

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/22/2018
Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 01/10/2018
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 2

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/25/2018
Next Scheduled EDR Contact: 09/03/2018
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/09/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 05/13/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 30

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 11/02/2017
Date Data Arrived at EDR: 11/17/2017
Date Made Active in Reports: 12/08/2017
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 07/20/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 08/20/2018
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 06/01/2017
Date Data Arrived at EDR: 06/09/2017
Date Made Active in Reports: 10/13/2017
Number of Days to Update: 126

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 07/13/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 07/09/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/23/2018
Next Scheduled EDR Contact: 11/05/2018
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 06/07/2018
Next Scheduled EDR Contact: 09/17/2018
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/04/2018
Next Scheduled EDR Contact: 09/17/2018
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 05/24/2017
Date Data Arrived at EDR: 11/30/2017
Date Made Active in Reports: 12/15/2017
Number of Days to Update: 15
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/27/2018
Next Scheduled EDR Contact: 08/06/2018
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 04/03/2018
Date Data Arrived at EDR: 04/05/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 85
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 07/05/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/03/2018
Next Scheduled EDR Contact: 08/13/2018
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 03/31/2018
Date Data Arrived at EDR: 04/16/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 74
Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/09/2018
Next Scheduled EDR Contact: 10/01/2018
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 09/28/2017
Number of Days to Update: 218
Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/28/2018
Next Scheduled EDR Contact: 09/03/2018
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 07/11/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 12/23/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 02/17/2017
Number of Days to Update: 52

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/07/2018
Next Scheduled EDR Contact: 08/20/2018
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 06/23/2017
Date Data Arrived at EDR: 10/11/2017
Date Made Active in Reports: 11/03/2017
Number of Days to Update: 23

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 09/03/2018
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 05/13/2018
Date Data Arrived at EDR: 05/30/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 30

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 10/15/2018
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/03/2018
Date Data Arrived at EDR: 05/31/2018
Date Made Active in Reports: 06/29/2018
Number of Days to Update: 29

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/31/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/30/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/30/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/08/2018
Date Data Arrived at EDR: 03/13/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 87

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/20/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/21/2018
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 03/23/2018
Number of Days to Update: 28

Source: EPA
Telephone: (404) 562-9900
Last EDR Contact: 06/06/2018
Next Scheduled EDR Contact: 09/17/2018
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 01/04/2018
Date Data Arrived at EDR: 01/19/2018
Date Made Active in Reports: 04/13/2018
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 06/01/2018
Next Scheduled EDR Contact: 09/10/2018
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/30/2016
Date Data Arrived at EDR: 10/31/2017
Date Made Active in Reports: 01/12/2018
Number of Days to Update: 73

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/13/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 02/25/2018
Date Data Arrived at EDR: 03/17/2018
Date Made Active in Reports: 06/08/2018
Number of Days to Update: 83

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 06/06/2018
Next Scheduled EDR Contact: 09/17/2018
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/20/2018
Date Data Arrived at EDR: 02/21/2018
Date Made Active in Reports: 03/23/2018
Number of Days to Update: 30

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/23/2018
Next Scheduled EDR Contact: 09/03/2018
Data Release Frequency: Quarterly

AIRS: Listing of Permitted Sources

A listing of permitted sources issued by the Division of Air Pollution Control.

Date of Government Version: 05/01/2018
Date Data Arrived at EDR: 05/03/2018
Date Made Active in Reports: 06/04/2018
Number of Days to Update: 32

Source: Department of Environment & Conservation
Telephone: 615-532-0545
Last EDR Contact: 05/03/2018
Next Scheduled EDR Contact: 08/13/2018
Data Release Frequency: Varies

DRYCLEANERS: Registered Facilities List
A list of all active registered drycleaner facilities, There may be some inactive facilities included.

Date of Government Version: 03/21/2018
Date Data Arrived at EDR: 04/18/2018
Date Made Active in Reports: 06/01/2018
Number of Days to Update: 44
Source: Dept. of Environment & Conservation
Telephone: 615-532-0900
Last EDR Contact: 07/20/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Annually

LEAD CERT: Lead Safe Housing Registry
A listing of Tennessee properties that have achieved a lead safe designation.

Date of Government Version: 12/04/2017
Date Data Arrived at EDR: 12/06/2017
Date Made Active in Reports: 01/04/2018
Number of Days to Update: 29
Source: Department of Environment & Conservation
Telephone: 615-532-8011
Last EDR Contact: 06/01/2018
Next Scheduled EDR Contact: 09/17/2018
Data Release Frequency: Varies

NPDES: Permitted Facility Listing
A listing of permitted wastewater facilities.

Date of Government Version: 02/21/2018
Date Data Arrived at EDR: 02/22/2018
Date Made Active in Reports: 03/23/2018
Number of Days to Update: 29
Source: Department of Environment & Conservation
Telephone: 615-253-2245
Last EDR Contact: 05/23/2018
Next Scheduled EDR Contact: 09/03/2018
Data Release Frequency: Quarterly

VAPOR: Vapor Intrusion
A listing of sites that have a potential for vapor intrusion

Date of Government Version: 02/21/2018
Date Data Arrived at EDR: 02/22/2018
Date Made Active in Reports: 03/23/2018
Number of Days to Update: 29
Source: Department of Environment & Conservation
Telephone: 615-532-0930
Last EDR Contact: 07/06/2018
Next Scheduled EDR Contact: 10/22/2018
Data Release Frequency: Varies

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants
The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A
Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations
EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environment and Conservation in Tennessee.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/15/2014
Number of Days to Update: 198

Source: Department of Environment and Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environment and Conservation in Tennessee.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/03/2014
Number of Days to Update: 186

Source: Department of Environment and Conservation
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 01/03/2018
Date Data Arrived at EDR: 02/14/2018
Date Made Active in Reports: 03/22/2018
Number of Days to Update: 36

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/18/2018
Next Scheduled EDR Contact: 08/27/2018
Data Release Frequency: No Update Planned

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 04/30/2018
Date Data Arrived at EDR: 05/03/2018
Date Made Active in Reports: 06/07/2018
Number of Days to Update: 35

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/03/2018
Next Scheduled EDR Contact: 08/13/2018
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 07/25/2017
Date Made Active in Reports: 09/25/2017
Number of Days to Update: 62

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 07/12/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 02/23/2018
Date Made Active in Reports: 04/09/2018
Number of Days to Update: 45

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/21/2018
Next Scheduled EDR Contact: 09/03/2018
Data Release Frequency: Annually

VT MANIFEST: Hazardous Waste Manifest Data

Hazardous waste manifest information.

Date of Government Version: 05/16/2018
Date Data Arrived at EDR: 05/23/2018
Date Made Active in Reports: 07/03/2018
Number of Days to Update: 41

Source: Department of Environmental Conservation
Telephone: 802-241-3443
Last EDR Contact: 07/16/2018
Next Scheduled EDR Contact: 10/29/2018
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/15/2018
Date Made Active in Reports: 07/09/2018
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/11/2018
Next Scheduled EDR Contact: 09/24/2018
Data Release Frequency: Annually

Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data

Source: PennWell Corporation

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Child Care Listing
Source: Department Of Human Services
Telephone: 615-313-4778

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Environment & Conservation
Telephone: 651-532-0052

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STREET AND ADDRESS INFORMATION

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

AASF # 3
JACKSON, TN
JACKSON, TN 38301

TARGET PROPERTY COORDINATES

Latitude (North):	35.598395 - 35° 35' 54.22''
Longitude (West):	88.913085 - 88° 54' 47.11''
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	326693.7
UTM Y (Meters):	3940891.2
Elevation:	420 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5944486 WESTOVER, TN
Version Date:	2013

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

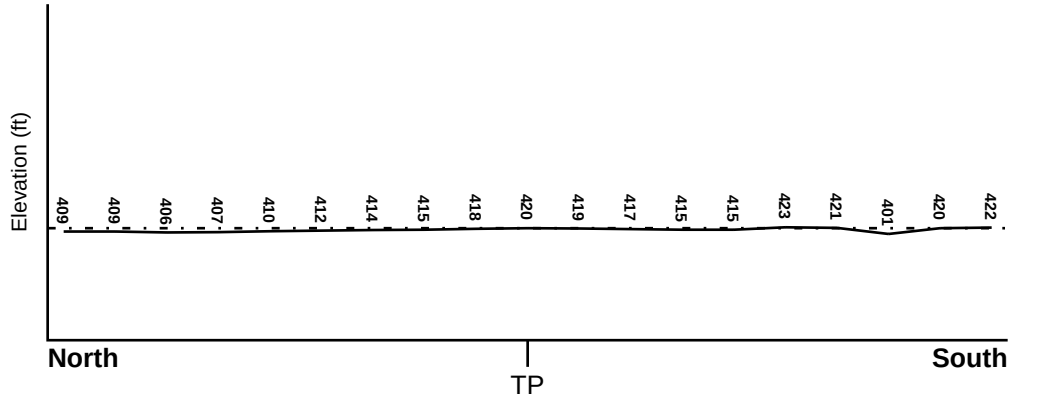
TOPOGRAPHIC INFORMATION

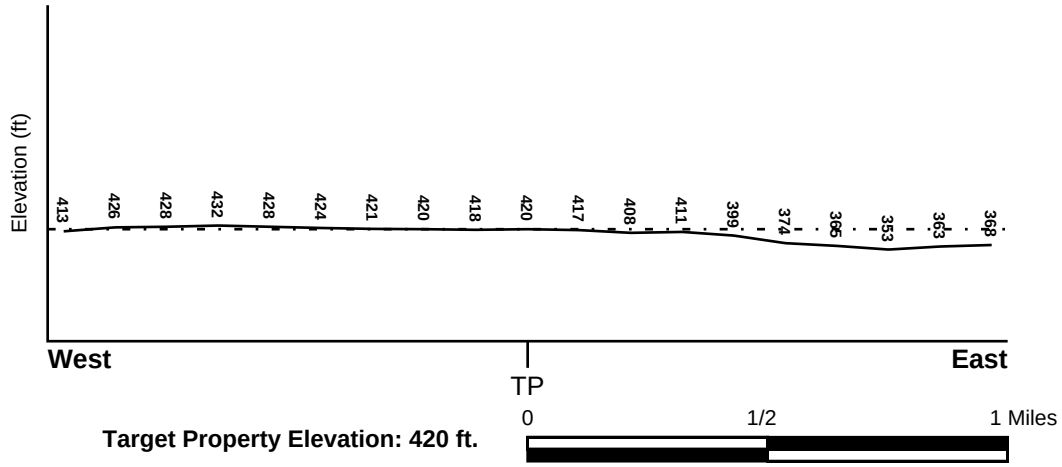
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General East

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





0 1/2 1 Miles

Target Property Elevation: 420 ft.

Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
47113C0260E	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
Not Reported	

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
WESTOVER	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era:	Cenozoic
System:	Tertiary
Series:	Eocene Claiborne Group
Code:	Te2 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name:	GRENADA
Soil Surface Texture:	silt loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Moderately well drained. Soils have a layer of low hydraulic conductivity, wet state high in the profile. Depth to water table is 3 to 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel:	MODERATE
Depth to Bedrock Min:	> 60 inches
Depth to Bedrock Max:	> 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 6.00 Min: 4.50
2	5 inches	21 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 6.00 Min: 4.50
3	21 inches	24 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 6.00 Min: 4.50
4	24 inches	42 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.20 Min: 0.06	Max: 6.00 Min: 4.50
5	42 inches	60 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.20 Min: 0.06	Max: 7.30 Min: 5.10

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: sandy loam

Surficial Soil Types: sandy loam

Shallow Soil Types: silty clay loam

Deeper Soil Types: loamy sand
loam
sandy loam

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
9	TN0002603	1/2 - 1 Mile WNW

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

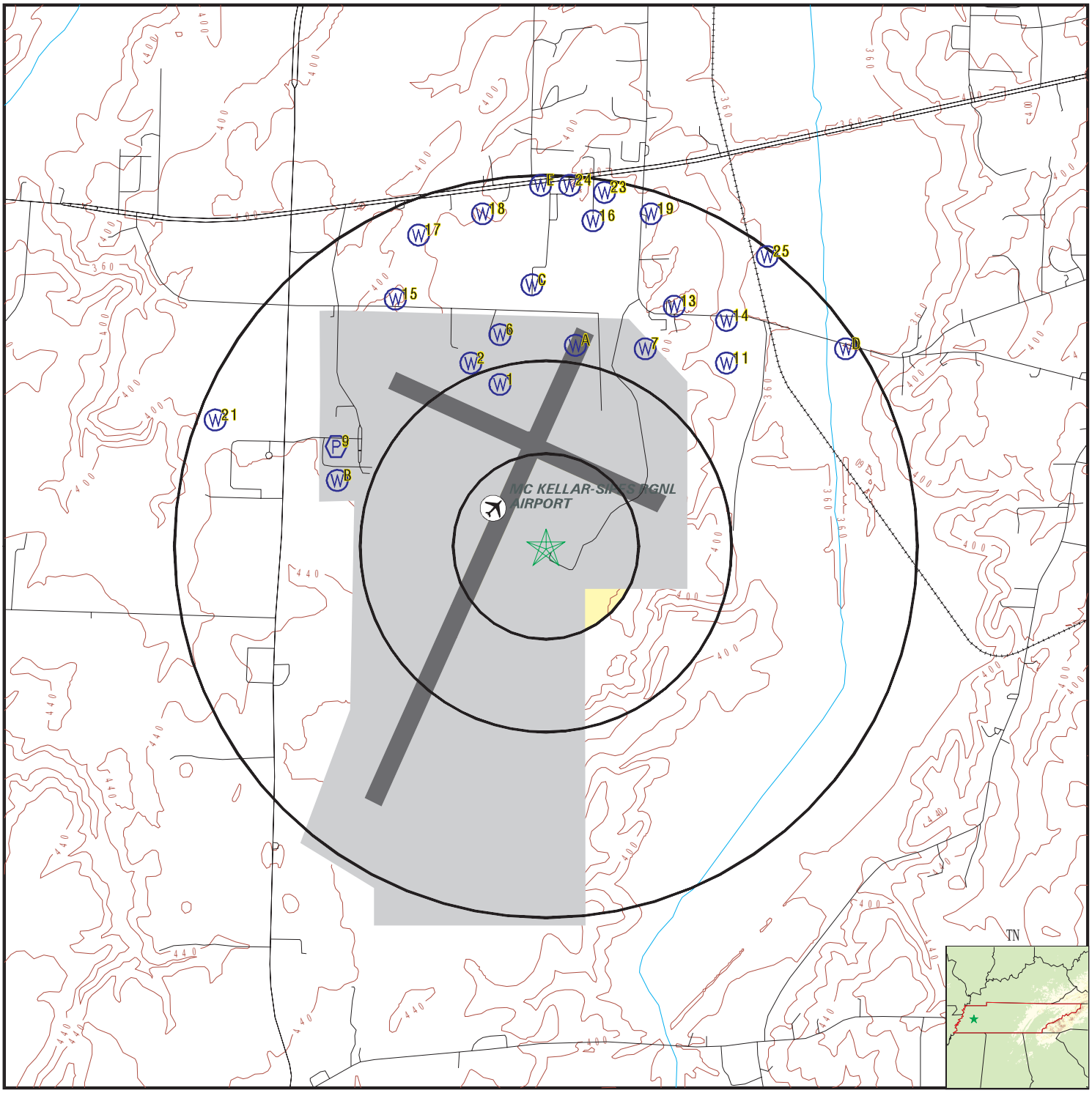
MAP ID	WELL ID	LOCATION FROM TP
1	TN6000000084961	1/4 - 1/2 Mile NNW
2	TN6000000084394	1/2 - 1 Mile NNW
A3	TN6000000085085	1/2 - 1 Mile North
B4	TN6000000084934	1/2 - 1 Mile WNW
A5	TN6000000085084	1/2 - 1 Mile NNE
6	TN6000000085408	1/2 - 1 Mile NNW
7	TN6000000213473	1/2 - 1 Mile NNE
B8	TN6000000084866	1/2 - 1 Mile WNW
C10	TN6000000084205	1/2 - 1 Mile North
11	TN6000000086570	1/2 - 1 Mile NE
C12	TN6000000085142	1/2 - 1 Mile North
13	TN6000000086250	1/2 - 1 Mile NNE
14	TN6000000084181	1/2 - 1 Mile NE
15	TN6000000085094	1/2 - 1 Mile NNW
16	TN6000000181913	1/2 - 1 Mile North
17	TN6000000222160	1/2 - 1 Mile NNW
18	TN6000000085302	1/2 - 1 Mile North
19	TN6000000172772	1/2 - 1 Mile NNE
D20	TN6000000084439	1/2 - 1 Mile ENE
21	TN6000000161063	1/2 - 1 Mile WNW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
E22	TN6000000085471	1/2 - 1 Mile North
23	TN6000000085585	1/2 - 1 Mile North
24	TN6000000086089	1/2 - 1 Mile North
25	TN6000000084392	1/2 - 1 Mile NE
D26	TN6000000084203	1/2 - 1 Mile NE
E27	TN6000000084098	1/2 - 1 Mile North

PHYSICAL SETTING SOURCE MAP - 5371648.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons
- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location

SITE NAME:	AASF # 3	CLIENT:	AECOM
ADDRESS:	Jackson, TN Jackson TN 38301	CONTACT:	Brittany Kirchmann
LAT/LONG:	35.598395 / 88.913085	INQUIRY #:	5371648.2s
		DATE:	July 24, 2018 4:46 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
1 **NNW** **1/4 - 1/2 Mile** **Lower**	**TN WELLS**	**TN6000000084961**

County nam:	MADISON
Well numbr:	11301087
Driller na:	MARCH O.
Addr line1:	Not Reported
License co:	52
Cmpltn dat:	17-SEP-71
Latitude:	353617
Cmpltn tot:	140
Cmpltn est:	0
Wlts quad :	0439NW6
Driller ta:	Not Reported
Longitude:	885455
Accuracy:	S
Casing fee:	136
Wbz:	100
Descriptio:	Not Reported
Driller re:	1406945
Site id:	TN6000000084961

---

2 **NNW** **1/2 - 1 Mile** **Lower**	**TN WELLS**	**TN6000000084394**

County nam:	MADISON
Well numbr:	11300518
Driller na:	MCGOWEN
Addr line1:	Not Reported
License co:	395
Cmpltn dat:	18-JUL-67
Latitude:	353620
Cmpltn tot:	100
Cmpltn est:	0
Wlts quad :	0439NW6
Driller ta:	Not Reported
Longitude:	885500
Accuracy:	S
Casing fee:	0
Wbz:	85
Descriptio:	Residential
Driller re:	1406378
Site id:	TN6000000084394

A3 **North** **1/2 - 1 Mile** **Lower**	**TN WELLS**	**TN6000000085085**

County nam:	MADISON
Well numbr:	11301211
Driller na:	MARCH E
Addr line1:	Not Reported
License co:	52
Cmpltn dat:	26-JAN-73
Latitude:	353622
Cmpltn tot:	142
Cmpltn est:	0
Wlts quad :	0439NW6
Driller ta:	Not Reported
Longitude:	885444
Accuracy:	S
Casing fee:	138
Wbz:	105
Descriptio:	Not Reported
Driller re:	1407069
Site id:	TN6000000085085

B4
WNW **TN WELLS** **TN6000000084934**
1/2 - 1 Mile
Lower

County nam:	MADISON
Well numbr:	11301060
Driller na:	J & M COUNTY AIRPORT
Addr line1:	Not Reported
License co:	466
Cmpltn dat:	15-FEB-71
Latitude:	353604
Cmpltn tot:	145
Cmpltn est:	100
Wlts quad :	0438SW2
Driller ta:	Not Reported
Longitude:	885521
Accuracy:	S
Casing fee:	145
Wbz:	60
Descriptio:	Commercial
Driller re:	1406918
Site id:	TN6000000084934

A5
NNE **TN WELLS** **TN6000000085084**
1/2 - 1 Mile
Lower

County nam:	MADISON
Well numbr:	11301210
Driller na:	MARSHALL L P
Addr line1:	Not Reported
License co:	52
Cmpltn dat:	26-JAN-73
Latitude:	353623
Cmpltn tot:	118
Cmpltn est:	0
Wlts quad :	0439NW6

Driller ta:	Not Reported
Longitude:	885440
Accuracy:	S
Casing fee:	114
Wbz:	90
Descriptio:	Not Reported
Driller re:	1407068
Site id:	TN6000000085084

6
NNW **TN WELLS** **TN6000000085408**
1/2 - 1 Mile
Lower

County nam:	MADISON
Well numbr:	11301536
Driller na:	J&M COUNTY AIRPORT
Addr line1:	Not Reported
License co:	52
Cmpltn dat:	24-JAN-75
Latitude:	353624
Cmpltn tot:	105
Cmpltn est:	0
Wlts quad :	0438SW3
Driller ta:	Not Reported
Longitude:	885455
Accuracy:	S
Casing fee:	101
Wbz:	90
Descriptio:	Commercial
Driller re:	1407392
Site id:	TN6000000085408

7
NNE **TN WELLS** **TN6000000213473**
1/2 - 1 Mile
Lower

County nam:	MADISON
Well numbr:	93004296
Driller na:	SCULLY, TOM
Addr line1:	AIRWAY'S
License co:	565
Cmpltn dat:	04-OCT-93
Latitude:	353622
Cmpltn tot:	128
Cmpltn est:	18
Wlts quad :	0438SW3
Driller ta:	Not Reported
Longitude:	885430
Accuracy:	S
Casing fee:	118
Wbz:	0
Descriptio:	Residential
Driller re:	1278333
Site id:	TN6000000213473

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
B8 **WNW** **1/2 - 1 Mile** **Higher**	**TN WELLS**	**TN6000000084866**

County nam:	MADISON
Well numbr:	11300992
Driller na:	JACKSON-MADISON
Addr line1:	Not Reported
License co:	29
Cmpltn dat:	01-APR-71
Latitude:	353603
Cmpltn tot:	156
Cmpltn est:	200
Wlts quad :	0438SW2
Driller ta:	Not Reported
Longitude:	885525
Accuracy:	S
Casing fee:	130
Wbz:	130
Descriptio:	Industrial
Driller re:	1406850
Site id:	TN6000000084866

---

9 **WNW** **1/2 - 1 Mile** **Lower**		**FRDS PWS**	**TN0002603**
Epa region:	04	State:	TN
Pwsid:	TN0002603		
Pwsname:	JACKSON-MADISON CO AIRPORT		
City served:	Not Reported	State served:	TN
Zip served:	Not Reported	Fips county:	47113
Status:	Closed	Pop srvd:	350
Pwssvcconn:	15	Source:	Groundwater
Pws type:	NTNCWS	Owner:	Local_Govt
Contact:	Not Reported		
Contactor gname:	Not Reported		
Contact phone:	901-423-0995	Contact address1:	MCKELLER FIELD
Contact address2:	Not Reported	Contact city:	JACKSON
Contact state:	TN	Contact zip:	383020068
Activity code:	I		
Facid:	TP001		
Facname:	WELL		
Facility type:	Treatment_plant	Activity code:	I
Treatment obj:	corrosion control	Treatment process:	inhibitor, polyphosphate
Treatment obj:	disinfection	Treatment process:	hypochlorination, post

Location Information:

Name:	JACKSON-MADISON CO AIRPORT		
Pwstypcd:	NTNCWS	Primsrccd:	GW
Popserved:	350		
Add1:	MCKELLER FIELD		
Add2:	Not Reported		
City:	JACKSON	State:	TN
Zip:	383020068	Phone:	901-423-0995
Cityserv:	Not Reported	Cntyserv:	Not Reported
Stateserv:	TN	Zipserv:	Not Reported

PWS ID:	TN0002603		
Date Initiated:	7706	Date Deactivated:	Not Reported
PWS Name:	JACKSON-MADISON CO AIRPORT MCKELLER FIELD JACKSON, TN 38301		

Addressee / Facility:	Not Reported		
Facility Latitude:	35 36 51	Facility Longitude:	088 48 50
Facility Latitude:	35 36 08	Facility Longitude:	088 55 23
City Served:	Not Reported		
Treatment Class:	Treated	Population:	00000350

Violations information not reported.

C10
North
1/2 - 1 Mile
Lower

TN WELLS **TN6000000084205**

County nam:	MADISON
Well numbr:	11300329
Driller na:	SHOE B
Addr line1:	Not Reported
License co:	101
Cmpltn dat:	20-AUG-65
Latitude:	353630
Cmpltn tot:	73
Cmpltn est:	0
Wlts quad :	0438SW3
Driller ta:	Not Reported
Longitude:	885448
Accuracy:	S
Casing fee:	69
Wbz:	0
Descriptio:	Residential
Driller re:	1406189
Site id:	TN6000000084205

11
NE
1/2 - 1 Mile
Lower

TN WELLS **TN6000000086570**

County nam:	MADISON
Well numbr:	11302740
Driller na:	SCULLEY'S GOLF COURS
Addr line1:	OLD #70
License co:	441
Cmpltn dat:	07-SEP-84
Latitude:	353620
Cmpltn tot:	120
Cmpltn est:	35
Wlts quad :	0438SW3
Driller ta:	Not Reported
Longitude:	885416
Accuracy:	F
Casing fee:	90
Wbz:	80
Descriptio:	Irrigation
Driller re:	1408554
Site id:	TN6000000086570

C12
North
1/2 - 1 Mile
Lower

TN WELLS **TN6000000085142**

County nam:	MADISON
Well numbr:	11301268
Driller na:	WILLIAMSON D
Addr line1:	Not Reported
License co:	101
Cmpltn dat:	28-SEP-72
Latitude:	353632
Cmpltn tot:	75
Cmpltn est:	0
Wlts quad :	0438SW3
Driller ta:	Not Reported
Longitude:	885451
Accuracy:	S
Casing fee:	72
Wbz:	65
Descriptio:	Farm
Driller re:	1407126
Site id:	TN6000000085142

13
NNE
1/2 - 1 Mile
Lower

TN WELLS **TN6000000086250**

County nam:	MADISON
Well numbr:	11302395
Driller na:	HASKINS W.L.
Addr line1:	Not Reported
License co:	441
Cmpltn dat:	02-FEB-82
Latitude:	353628
Cmpltn tot:	120
Cmpltn est:	18
Wlts quad :	0438SW3

Driller ta:	Not Reported
Longitude:	885425
Accuracy:	S
Casing fee:	100
Wbz:	70
Descriptio:	Residential
Driller re:	1408234
Site id:	TN6000000086250

14
NE **TN WELLS** **TN6000000084181**
1/2 - 1 Mile
Lower

County nam:	MADISON
Well numbr:	11300305
Driller na:	CHESHIRE
Addr line1:	Not Reported
License co:	101
Cmpltn dat:	25-JUN-65
Latitude:	353626
Cmpltn tot:	38
Cmpltn est:	0
Wlts quad :	0438SW3
Driller ta:	Not Reported
Longitude:	885416
Accuracy:	S
Casing fee:	34
Wbz:	0
Descriptio:	Industrial
Driller re:	1406165
Site id:	TN6000000084181

15
NNW **TN WELLS** **TN6000000085094**
1/2 - 1 Mile
Lower

County nam:	MADISON
Well numbr:	11301220
Driller na:	RICH B
Addr line1:	Not Reported
License co:	52
Cmpltn dat:	12-DEC-72
Latitude:	353629
Cmpltn tot:	105
Cmpltn est:	0
Wlts quad :	0438SW2
Driller ta:	Not Reported
Longitude:	885513
Accuracy:	S
Casing fee:	101
Wbz:	60
Descriptio:	Not Reported
Driller re:	1407078
Site id:	TN6000000085094

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
16 **North** **1/2 - 1 Mile** **Lower**	**TN WELLS**	**TN6000000181913**

County nam:	MADISON
Well numbr:	20081331
Driller na:	RANDOLPH NURSERY
Addr line1:	1650 AIRWAYS BLVD
License co:	565
Cmpltn dat:	17-MAR-08
Latitude:	353640
Cmpltn tot:	200
Cmpltn est:	150
Wlts quad :	0438SW3
Driller ta:	D0083284
Longitude:	885439
Accuracy:	F
Casing fee:	160
Wbz:	160
Descriptio:	Commercial
Driller re:	1512369
Site id:	TN6000000181913

---

17 **NNW** **1/2 - 1 Mile** **Lower**	**TN WELLS**	**TN6000000222160**

County nam:	MADISON
Well numbr:	95002562
Driller na:	JACKSON TRACTOR
Addr line1:	HWY 70
License co:	565
Cmpltn dat:	02-JUN-95
Latitude:	353638
Cmpltn tot:	105
Cmpltn est:	10
Wlts quad :	0438SW2
Driller ta:	D0004046
Longitude:	885509
Accuracy:	F
Casing fee:	95
Wbz:	0
Descriptio:	Other
Driller re:	1287022
Site id:	TN6000000222160

---

18 **North** **1/2 - 1 Mile** **Lower**	**TN WELLS**	**TN6000000085302**

County nam:	MADISON
Well numbr:	11301430
Driller na:	EVANS J.
Addr line1:	Not Reported
License co:	441
Cmpltn dat:	16-DEC-73
Latitude:	353641
Cmpltn tot:	125
Cmpltn est:	15
Wlts quad :	0438SW3
Driller ta:	Not Reported
Longitude:	885458
Accuracy:	S
Casing fee:	120
Wbz:	95
Descriptio:	Residential
Driller re:	1407286
Site id:	TN6000000085302

19
NNE
1/2 - 1 Mile
Lower

TN WELLS **TN6000000172772**

County nam:	MADISON
Well numbr:	20062380
Driller na:	HUNT, LAMAR
Addr line1:	109 ANGLIN LANE
License co:	119
Cmpltn dat:	09-MAY-06
Latitude:	353641
Cmpltn tot:	115
Cmpltn est:	12
Wlts quad :	0438SW3
Driller ta:	D0073872
Longitude:	885429
Accuracy:	F
Casing fee:	105
Wbz:	115
Descriptio:	Residential
Driller re:	1502514
Site id:	TN6000000172772

D20
ENE
1/2 - 1 Mile
Lower

TN WELLS **TN6000000084439**

County nam:	MADISON
Well numbr:	11300563
Driller na:	DICKERSON INC
Addr line1:	Not Reported
License co:	101
Cmpltn dat:	17-MAY-67
Latitude:	353621
Cmpltn tot:	32
Cmpltn est:	10
Wlts quad :	0438SW3

Driller ta:	Not Reported
Longitude:	885356
Accuracy:	S
Casing fee:	28
Wbz:	15
Descriptio:	Other
Driller re:	1406423
Site id:	TN6000000084439

21
WNW **TN WELLS** **TN6000000161063**
1/2 - 1 Mile
Lower

County nam:	MADISON
Well numbr:	20033353
Driller na:	H & M CONSTRUCTION
Addr line1:	SMITH LANE
License co:	597
Cmpltn dat:	26-AUG-03
Latitude:	353612
Cmpltn tot:	162
Cmpltn est:	250
Wlts quad :	0438SW2
Driller ta:	D0057443
Longitude:	885544
Accuracy:	F
Casing fee:	122
Wbz:	120
Descriptio:	Commercial
Driller re:	1490056
Site id:	TN6000000161063

E22
North **TN WELLS** **TN6000000085471**
1/2 - 1 Mile
Lower

County nam:	MADISON
Well numbr:	11301600
Driller na:	K.H JEHOVA WITNESS
Addr line1:	Not Reported
License co:	52
Cmpltn dat:	09-JUN-75
Latitude:	353644
Cmpltn tot:	105
Cmpltn est:	0
Wlts quad :	0438SW3
Driller ta:	Not Reported
Longitude:	885448
Accuracy:	S
Casing fee:	101
Wbz:	90
Descriptio:	Not Reported
Driller re:	1407455
Site id:	TN6000000085471

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

23
North
1/2 - 1 Mile
Lower

TN WELLS **TN6000000085585**

County nam:	MADISON
Well numbr:	11301722
Driller na:	UNKNOWN431
Addr line1:	Not Reported
License co:	740
Cmpltn dat:	Not Reported
Latitude:	353644
Cmpltn tot:	0
Cmpltn est:	0
Wlts quad :	0438SW3
Driller ta:	Not Reported
Longitude:	885437
Accuracy:	S
Casing fee:	0
Wbz:	0
Descriptio:	Commercial
Driller re:	1407569
Site id:	TN6000000085585

24
North
1/2 - 1 Mile
Lower

TN WELLS **TN6000000086089**

County nam:	MADISON
Well numbr:	11302231
Driller na:	GOLDEN CIRCLE IMPLEM
Addr line1:	Not Reported
License co:	441
Cmpltn dat:	28-FEB-80
Latitude:	353645
Cmpltn tot:	150
Cmpltn est:	0
Wlts quad :	0438SW3
Driller ta:	Not Reported
Longitude:	885443
Accuracy:	S
Casing fee:	135
Wbz:	100
Descriptio:	Industrial
Driller re:	1408073
Site id:	TN6000000086089

25
NE
1/2 - 1 Mile
Lower

TN WELLS **TN6000000084392**

County nam:	MADISON
Well numbr:	11300516
Driller na:	MARSHEL G
Addr line1:	Not Reported
License co:	395
Cmpltn dat:	06-JUN-67
Latitude:	353635
Cmpltn tot:	100
Cmpltn est:	0
Wlts quad :	0439NW6
Driller ta:	Not Reported
Longitude:	885409
Accuracy:	S
Casing fee:	100
Wbz:	80
Descriptio:	Residential
Driller re:	1406376
Site id:	TN6000000084392

D26
NE
1/2 - 1 Mile
Lower

TN WELLS **TN6000000084203**

County nam:	MADISON
Well numbr:	11300327
Driller na:	BOOKER R
Addr line1:	Not Reported
License co:	101
Cmpltn dat:	03-AUG-65
Latitude:	353623
Cmpltn tot:	28
Cmpltn est:	0
Wlts quad :	0438SW3
Driller ta:	Not Reported
Longitude:	885355
Accuracy:	S
Casing fee:	24
Wbz:	0
Descriptio:	Residential
Driller re:	1406187
Site id:	TN6000000084203

E27
North
1/2 - 1 Mile
Lower

TN WELLS **TN6000000084098**

County nam:	MADISON
Well numbr:	11300221
Driller na:	JONES W
Addr line1:	Not Reported
License co:	52
Cmpltn dat:	13-JUN-64
Latitude:	353646
Cmpltn tot:	103
Cmpltn est:	0
Wlts quad :	0438SW3

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Driller ta:	Not Reported
Longitude:	885448
Accuracy:	S
Casing fee:	103
Wbz:	70
Descriptio:	Residential
Driller re:	1406082
Site id:	TN6000000084098

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: TN Radon

Radon Test Results

County	Total Sites	Avg	Max	<4 pCi/L	4-10 pCi/L	10-20 pCi/L	20-50 pCi/L	50-100 pCi/L	>100 pCi/L
MADISON	20	1.5	4.6	19	1	0	0	0	0

Federal EPA Radon Zone for MADISON County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 38301

Number of sites tested: 5

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.040 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Environment & Conservation
Telephone: 651-532-0052

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

County Water Wells in Tennessee
Source: Department of Environment and Conservation
Telephone: 615-532-0191
Water well locations for the entire state.

OTHER STATE DATABASE INFORMATION

RADON

State Database: TN Radon
Source: Department of Environment & Conservation
Telephone: 615-299-9725
Radon Test Results

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

Appendix B

Preliminary Assessment Documentation

Appendix B.1
Interview Records

PA Interview Questionnaire - Environmental Manager

Facility: AASF #3
Interviewer: Stinger/Davis
Date/Time: 3/23/2018

Interviewee: CW5 John McConnell **Title:** Logistics Mgmt Officer **Phone Number:** **Email:** johnmcconnell6@mail.mil	Can your name/role be used in the PA Report? (Y) or N Can you recommend anyone we can interview? Y or (N)

1. Roles or activities with the Facility/years working at the Facility.

   15 years since August 2003, prior @ Smyrna

2. Where can I find previous facility ownership information?

   Prior hanger destroyed by tornado - AASF/ARNG
   New in October 2003
   Guard here 1999 - No prior tenant

3. What can you tell us about the history of PFAS including aqueous film forming foam (AFFF) at the Facility? Was it used for any of the following activities, circle all that apply and indicate years of active use, if known? Identify these locations on a facility map.

   Maintenance ✓
   Fire Training Areas X
   Firefighting (Active Fire) X fire extinguisher training JPB in can and out on fire
   Crash X
   Fire Suppression Systems (Hangers/Dining Facilities) training No
   Fire Protection at Fueling Stations No fueling here
   Non-Technical/Recreational/ Pest Management X
   Metals Plating Facility X
   Waterproofing Uniforms (Laundry Facilities) X
   Other No other use

4. Fill out CSM Information worksheet with the Environmental Manager.

5. Are any current buildings constructed with AFFF dispensing systems or fire suppression systems? Y
   What are the AFFF/suppression system test requirements? What is the frequency of testing the AFFF/suppression system? Do you have "As Built" drawings for the buildings?

   flow testing with water and into drain
   contractor ~~has~~ conducted recharge of system

   sprinkler heads above lighting so no full scale test.
   They test on stock out (with sample pulled) but
   no AFFF dispense system test. Construction test?
   Unknown. 2 year contract over before they
   possessed. Contractor bankrupt so no records.

PA Interview Questionnaire - Environmental Manager

Facility: AASF #3
Interviewer: Stinger/Davis
Date/Time: 3/23/2018
McConnell p2

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 (system design flow so closed off/not connected to AFFF) No retrofit.

7. How is AFFF procured? Do you have an inventory/procurement system that tracks use?

No procurement info here

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)?

AFFF stored but not used. In emergency will use NOVEC cat.

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?

PA Interview Questionnaire - Environmental Manager

Facility: AASF #3
Interviewer: Stinger/Davis
Date/Time: 3/23/2018
McConnell p3

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?

sanitary sewer → WWTP

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?

other training here but they don't bring anything with them & use AASF#3's supplies

13. Did military routinely or occasionally fire train off-post? List the units that you can recall used/trained at various areas.

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?

Airport Fire Truck - different from Madison Co. FD.

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?

No

PA Interview Questionnaire - Environmental Manager

Facility: AASF #3
Interviewer: Stinger/Davis
Date/Time: 3/23/2018
McConnell p4

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?

Airport contractor delivers. No ~~records~~ of spills over gallon. No records of other spills

17. Was AFFF used for forest fires or fire management on-post/off-post? If so, please describe what happened and who was involved?

No

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?

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)?

storage
1. POL lockers x2 carts on line and sealed cans stored
2. Wash rack in bldg by hangar and GSE bldg locker
3. hangar room.

(4) Flight line - Never dispensed

20. Are you aware of any other creative uses of AFFF? If so, how was AFFF used? What entities were involved?

No

PA Interview Questionnaire - Environmental Manager

Facility: AASF #3
Interviewer: Stinger/Davis
Date/Time: 3/23/2018
McConnell p5

21. Are there past studies you are aware of with environmental information on plants/animals/ groundwater/soil types, etc., such as Integrated Cultural Resources Management Plans or Integrated Natural Resources Management Plans?

No

22. What other records might be helpful to us (environmental compliance, investigation records, admin record) and where can we find them?

ge avail from TN Environ.

23. Do you have or did you have a chrome plating shop on base? What were/are the years of operation of that chrome plating shop?

No

24. Do you know whether the shop has/had a foam blanket mist suppression system or used a fume hood for emissions control? If foam blanket mist suppression was used, where was the foam stored, mixed, applied, etc.?

Yes hangar system but never dispense testing. All other testing had some discharge to OWS → WWTP

25. How is off-spec AFFF disposed (used for training, turned in, or given to a local Fire Station)? If applicable, do you know the name of the vendor that removes off-spec AFFF? Do you have copies of the manifest or B/L?

Not disposed. Only small disch. during training. No records

PA Interview Questionnaire - Environmental Manager

Facility: AASF #3
Interviewer: Stinger/Davis
Date/Time: 3/23/2018
McConnell p6

26. Do you recommend anyone else we can interview? If so, do you have contact information for them?

No

PA Interview Questionnaire - Other

Facility: AAFS #3
Interviewer: Shng-L
Date/Time: 5/26/2016 0800

Interviewee: SGT Billy Sanford **Title:** ARFF Duty Fire Marshall **Phone Number:** ~~William~~ **Email:** william.sanford@mail.mil	Can your name/role be used in the PA Report? (Y) or N Can you recommend anyone we can interview? Y or (N)

Roles or activities with the Facility/Years working at the Facility:

15 years as Fire Marshall @ AAFS #3
Acquired NOVEC 1230 gas form of retardent mobile carts
Expensive but replaced at no cost by vendor
No film, no electronic impacts - preferred over AFFF
6 transport carts 35 gallon each acquired

PFAS Use: Identify accidental/intentional release locations, time frame of release, frequency of releases, storage container size (maintenance, fire training, firefighting, buildings with suppression systems (as builts), fueling stations, crash sites, pest management, recreational, dining facilities, metals plating, or waterproofing). How are materials ordered/purchased/disposed/shared with others?

	Known Uses
Org. Hangar fire suppression system still in place. Due to design flaw (obv electrical) Replacement needed. In case of fire, as such the wet system will impact electric sys. So they dead lined system	Use
	Procurement
	Disposition
	Storage (Mixed)
They have NOVEC system in hangar in case the AFFF system does not work (carts)	Storage (Solution)
	Inventory, Off-Spec
	Containment
	SOP on Filling
	Leaking Vehicles
Also Concerned about water pressure (too low) as AAFS #3 last 'outlet' at airport for water system	Nozzle and Suppression System Testing
	Dining Facilities
	Vehicle Washing
	Ramp Washing
	Fuel Spill Washing and Fueling Stations
	Chrome Plating or Waterproofing

PA Interview Questionnaire - Other

Facility: NASF #3
Interviewer: Stinger/Davis
Date/Time: 5/23/18 0800
Sanford p2

ANSEL 3-wheeled carts
33 gallon x 3 carts = old carts awaiting disposal

training usually done at wash rack where drains to OWS → WWTP

(washrack is on flight line)

all drainage goes to OWS → ~~to~~ airport sys

PA Interview Questionnaire – Fire Station

Facility: AASF#3
Interviewer: Stinger
Date/Time: 9/19/2018, 14:53

Interviewee: Taylor Rushing, McKellar-Sipes Airport Fire Dept	Can your name/role be used in the PA Report? Y Can you recommend anyone we can interview? N
Title Fire Chief	
Phone: 731.423.0995 x7508	
Email: taylor@mckellarsipes.com	

1.Roles or activities with the Facility/years working at the Facility.
Began working at airport in 1983 as part-time fireman employed by the City of Jackson. After retiring in 2014, hired as full-time Fire Chief by the Airport Authority

2.What can you tell us about the history of AFFF at the Facility? Was it used for any of the following activities, circle all that apply and indicate years of active use, if known? Identify these locations on a facility map.

Storage
Crash – 2016 King Air, into airport weather station, SE of runway
Demonstrating fire response to FAA inspector annually - midfield

3.Are any current buildings constructed with AFFF dispensing systems or fire suppression systems? What are the AFFF/suppression system test requirements? What is the frequency of testing at the AFFF/suppression systems?
No knowledge of buildings with AFFF systems

4.Are fire suppression systems currently charged with AFFF or have they been retrofitted for use of high expansion foam?
N/A

5.How is AFFF procured? Do you have an inventory/procurement system that tracks use?
He purchases from the internet from least expensive supplier, most recently about 2 years ago

PA Interview Questionnaire – Fire Station

Facility: AASF#3
Interviewer: Stinger
Date/Time: 9/19/2018, 14:53

6. What type of AFFF has been/is being used?
6%, brand varies, most recently purchased Buckeye

8. Is AFFF formulated on base? If so, where is the solution mixed, contained, transferred, etc.?
No

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?
Stored in 5-gallon buckets (6%) in fire station

10. How is the AFFF transferred to emergency response vehicles, suppression systems, flightline extinguishers? Is/was there a specified area on the facility where vehicles are filled with AFFF and does this area have secondary containment in case of spills? How and where are vehicles storing AFFF cleaned/decontaminated?
Transferred from 5-gallon buckets directly into their two trucks

11. Provide a list of vehicles that carried AFFF, now and in the past, and where are/were they located? ,
Large fire truck has 500-gallon AFFF tank, small truck has 150-gallon AFFF tank Trucks are housed inside the fire station when not in use.

13. Any vehicles have a history of leaking AFFF? Do you/did you test the vehicles spray patterns to make sure equipment is working properly? How often are/were these spray tests performed and can you provide the locations of these tests, now and in the past?
No history of AFFF leaks, water only is used to test nozzles.

PA Interview Questionnaire – Fire Station

Facility: AASF#3
Interviewer: Stinger
Date/Time: 9/19/2018, 14:53

12. 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?
They don't currently or previously have FTA, personnel conduct live fire training annually offsite in Millington TN

13. What types of fuels/flammables were used at the FTAs?
N/A

14. What was the frequency of AFFF use at each location? When a release of AFFF occurs during a fire training exercise, now and in the past, how is/was 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?
Annually FAA requires the FD to demonstrate emergency response readiness by staging a simulated fire typically mid-field and FD personnel are timed on their response. During these exercises they are required to dispense a small amount "squirt" of AFFF, estimated no more than 5-gallons during each annual demonstration. AFFF is not recovered and is allowed to drain off pavement and infiltrate into the ground

15. Are there mutual aid/use agreements between county, city, local fire department? Please list, even if informal. If formalized, may we have a copy of the agreement? Can you recall specific times when city, county, state personnel came on-post for training? If so, please state which state/county agency, military entity? Do you have any records, including photographs to share with us?
Informal agreement. Madison Co FD (leases property on airport from City of Jackson) provides backup support to the airport FD.

16. Did individual units come on-post 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?
No

PA Interview Questionnaire – Fire Station

Facility: AASF#3
Interviewer: Stinger
Date/Time: 9/19/2018, 14:53

17. Did military routinely or occasionally fire train off-post? List units that you can recall used/trained at various areas.
    N/A

18. 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?
    The Airport FD responded to a crash on 9/21/2016 at 4:20p of a King Air aircraft which crashed into the airport weather station SE end of the runway (~600-800 yards from AASF#3). The incident occurred because the landing gear failed to operate and a fire ensued. A total of 55-gallons of AFFF was used to extinguish the fire. Incident report available and will be faxed.

19. 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?
    No other releases (spills/leaks/etc) but the fire station does have floor drains that convey fluids to City wastewater treatment system.

20. Was AFFF used for forest fires or fire management on-post/off-post? If so, please describe what happened and who was involved?
    No

21. 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 water treatment plants, and AFFF ponds)?
    No

PA Interview Questionnaire – Fire Station

Facility: AASF#3
Interviewer: Stinger
Date/Time: 9/19/2018, 14:53

22. Are you aware of any other creative uses of AFFF? If so, how was AFFF used? What entities were involved?
    No

23. How is off-spec AFFF disposed (used for training, turned in, or given to a local Fire Station)? If applicable, do you know the name of the vendor that removes off-spec AFFF? Do you have copies of the manifest or B/L? Have never had waste AFFF to dispose. Required to maintain enough AFFF to fill trucks 2x, (equates to storage of 650 gallons on 2 trucks and 650 gallons reserve stored in 5-gallon buckets)

24. Do you recommend anyone else we can interview? If so, do you have contact information for them?
    No

PA Interview Questionnaire – Fire Station

Facility: AASF#3
Interviewer: Stinger
Date/Time: 9/19/2018, 10:00

Interviewee: Eric Turner, Madison Co Fire Dept	Can your name/role be used in the PA Report? Y Can you recommend anyone we can interview? N
Title Fire Chief	
Phone: 731.424.5577	
Email: eturner@madisoncountytn.gov	

1.Roles or activities with the Facility/years working at the Facility. With FD since 1983

2.What can you tell us about the history of AFFF at the Facility? Was it used for any of the following activities, circle all that apply and indicate years of active use, if known? Identify these locations on a facility map.

Storage only in building at north end of airport, next to tower. Address: 2432 Technology Dr., Jackson TN 38301

3.Are any current buildings constructed with AFFF dispensing systems or fire suppression systems? What are the AFFF/suppression system test requirements? What is the frequency of testing at the AFFF/suppression systems?
No AFFF systems

4.Are fire suppression systems currently charged with AFFF or have they been retrofitted for use of high expansion foam?
N/A

5.How is AFFF procured? Do you have an inventory/procurement system that tracks use?
Purchases from EVS (Emergency Vehicle Specialist) in Memphis TN, hasn't purchased in 2-3 years

PA Interview Questionnaire – Fire Station

Facility: AASF#3
Interviewer: Stinger
Date/Time: 9/19/2018, 10:00

6. What type of AFFF has been/is being used?
   3% and 6%, brand varies

7. Is AFFF formulated on base? If so, where is the solution mixed, contained, transferred, etc.?
No

8. 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?
   Stored in 5-gallon buckets in administration building

9. How is the AFFF transferred to emergency response vehicles, suppression systems, flightline extinguishers? Is/was there a specified area on the facility where vehicles are filled with AFFF and does this area have secondary containment in case of spills? How and where are vehicles storing AFFF cleaned/decontaminated?
   5-gallon buckets are stored on their trucks. The trucks are outfitted with eductors that draw AFFF from the buckets, and stream it with water. When trucks run out, they come to administration building to pickup new buckets. No floor drains in building.

10. Provide a list of vehicles that carried AFFF, now and in the past, and where are/were they located?
20 pumper trucks at 17 locations throughout the County

11. Any vehicles have a history of leaking AFFF? Do you/did you test the vehicles spray patterns to make sure equipment is working properly? How often are/were these spray tests performed and can you provide the locations of these tests, now and in the past?
    No history of AFFF leaks, soap used to simulate foam for testing nozzles.

PA Interview Questionnaire – Fire Station

Facility: AASF#3
Interviewer: Stinger
Date/Time: 9/19/2018, 10:00

12. 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?
They conduct live fire training adjacent to their building at the airport,

13. What types of fuels/flammables were used at the FTAs?
Use propane gas and water only for training. Too expensive to use AFFF for training.

14. What was the frequency of AFFF use at each location? When a release of AFFF occurs during a fire training exercise, now and in the past, how is/was 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?
Stored only in buckets

15. Are there mutual aid/use agreements between county, city, local fire department? Please list, even if informal. If formalized, may we have a copy of the agreement? Can you recall specific times when city, county, state personnel came on-post for training? If so, please state which state/county agency, military entity? Do you have any records, including photographs to share with us?
Informal agreement. They provide backup support for the Airport FD as needed.

16. Did individual units come on-post 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?
No, they are the only ones that use their FTA

PA Interview Questionnaire – Fire Station

Facility: AASF#3
Interviewer: Stinger
Date/Time: 9/19/2018, 10:00

17. Did military routinely or occasionally fire train off-post? List units that you can recall used/trained at various areas.
    N/A

18. 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?
    No

19. 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?
    No spills/leaks/discharges

20. Was AFFF used for forest fires or fire management on-post/off-post? If so, please describe what happened and who was involved?
    No

21. 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 water treatment plants, and AFFF ponds)?
    No

PA Interview Questionnaire – Fire Station

Facility: AASF#3
Interviewer: Stinger
Date/Time: 9/19/2018, 10:00

22. Are you aware of any other creative uses of AFFF? If so, how was AFFF used? What entities were involved?
    No

How is off-spec AFFF disposed (used for training, turned in, or given to a local Fire Station)? If applicable, do you know the name of the vendor that removes off-spec AFFF? Do you have copies of the manifest or B/L?
Excess AFFF donated to local volunteer FDs

24. Do you recommend anyone else we can interview? If so, do you have contact information for them?
    No

Appendix B.2
Visual Site Inspection Checklists

Visual Site Inspection Checklist

Names(s) of people performing VSI: McConnell Shrager Davis

Recorded by: Shrager

ARNG Contact: MAJ Jordan

Date and Time: 5/23/2016

Method of visit (walking, driving, adjacent): Walk

Source/Release Information

Site Name / Area Name / Unique ID: AASF #3

Site / Area Acreage:

Historic Site Use (Brief Description):

Current Site Use (Brief Description): AASF

Physical barriers or access restrictions: gvarded gate

1. Was PFAS used (or spilled) at the site/area? **Y / N**

1a. If yes, document how PFAS was used and usage time (e.g., fire fighting training 2001 to 2014):

2003-2015, annual hangar fire suppression system testing
2006, hangar fire suppression system repair
Pre 2003 to 2016, AFFF fire extinguisher testing/training

2. Has usage been documented? Y (N)

2a. If yes, keep a record (place electronic files on a disk):

Training records kept 2 years.
Stopped using AFFF 2 years ago Now NOVEC 1230

3. What types of businesses are located near the site? **Industrial / Commercial / Plating / Waterproofing / Residential**

3a. Indicate what businesses are located near the site

4. Is this site located at an airport/flightline? (Y) N

4a. If yes, provide a description of the airport/flightline tenants:

AASF #3 on east side of airport, general aviation on west.

Visual Survey Inspection Log

Other Significant Site Features:

1. Does the facility have a fire suppression system? Y / N

1a. If yes, indicate which type of AFFF has been used:

Buckeye Foam Concentrate for hangar system,
Ansul AFFF for mobile carts

1b. If yes, describe maintenance schedule/leaks:

Annual hangar system testing conducted
2003-2015, Ansul AFFF mobile carts taken
out of service in 2016.

1c. If yes, how often is the AFFF replaced:

AST1 presumed full is original fill;
AST2 refilled after torn bladder repair - 2006

1d. If yes, does the facility have floor drains and where do they lead? Can we obtain an as built drawing?

Floor drains lead to OWS and municipal wastewater treatment
plan, as built drawings not available No

Transport / Pathway Information

Migration Potential:

1. Does site/area drainage flow off installation? Y / N

1a. If so, note observation and location:

to ponded area east of the facility boundary

2. Is there channelized flow within the site/area? Y / N

2a. If so, please note observation and location:

drainage swale east of flight line, leads to open ditch
conveying drainage to ponded area east of the facility

3. Are monitoring or drinking water wells located near the site? Y / N

3a. If so, please note the location:

Interviews did not identify wells, EDR report
notes wells in the vicinity.

4. Are surface water intakes located near the site? Y / N

4a. If so, please note the location: unknown

5. Can wind dispersion information be obtained? Y / N

5a. If so, please note and observe the location. unknown

6. Does an adjacent non-ARNG PFAS source exist? Y / N

6a. If so, please note the source and location. unknown

interviews with the Airport Fire Department identified FAA-required fire response
readiness demonstration along runway

6b. Will off-site reconnaissance be conducted? Y / N

Visual Survey Inspection Log

Significant Topographical Features:

1. Has the infrastructure changed at the site/area? Y / N

1a. If so, please describe change (ex. Structures no longer exist):

original hangar destroyed by tornado and replaced in 2003 with current hangar in same location. No fire suppression system in original hangar; only dry chemical extinguishers installed.

2. Is the site/area vegetated? Y / N

2a. If not vegetated, briefly describe the site/area composition:

grassy areas surround the flight line, hangar and other facility features.

3. Does the site or area exhibit evidence of erosion? Y / N

3a. If yes, describe the location and extent of the erosion:

aerial photos of ponded area east of the facility show evidence of high sediment content

4. Does the site/area exhibit any areas of ponding or standing water? Y / N

4a. If yes, describe the location and extent of the ponding:

ponding reportedly occurs on east and west sides of the flight line during heavy rain events, additionally ponded area exists east of the facility's eastern boundary

Receptor Information

1. Is access to the site restricted? Y / N

1a. If so, please note to what extent:

guarded gate entrance

2. Who can access the site? **Site Workers / Construction Workers / Trespassers / Residential / Recreational Users / Ecological**

2a. Circle all that apply, note any not covered above:

3. Are residential areas located near the site? Y / N

3a. If so, please note the location/distance:

A variety of residential, commercial/industrial and agricultural parcels surround the northern and western sides of the airport property; areas east and south are predominately agricultural.

4. Are any schools/day care centers located near the site? Y / N

4a. If so, please note the location/distance/type:

5. Are any wetlands located near the site? Y / N

5a. If so, please note the location/distance/type:

The nearest wetlands identified by the US Fish and Wildlife Service (www.fws.gov/wetlands/Data/Mapper.html) is a 2.59 acre freshwater pond approximately 0.5 mile south of the facility

Visual Survey Inspection Log

Additional Notes

Photographic Log

Photo ID/Name	Date & Location	Photograph Description
see Appendix C.		

Appendix B.3
Conceptual Site Model Information

Preliminary Assessment – Conceptual Site Model Information

Site Name: AAFF #3

Why has this location been identified as a site?

Prior discharge of AFFF (3%) when suppression system serviced ~300 gal flowed into hangar floor drain when tank emptied for bladder replacem. flowed into OWS → WWTP. OWS cleaned 1-2x since. Disposition unknown

Are there any other activities nearby that could also impact this location?

NO

Training Events

Have any training events with AFFF occurred at this site? Yes

If so, how often? Annual fire extinguisher train and suppression sys check

How much material was used? Is it documented?

During annual test estimated 9-10 minutes water in suppress. sys flows then AFFF engages and sample collected. Estimates 300-350 gals total ≈

Identify Potential Pathways: Do we have enough information to fully understand over land surface water flow, groundwater flow, and geological formations on and around the facility? Any direct pathways to larger water bodies?

Surface Water:

Surface water flow direction? ESE

Average rainfall?

Any flooding during rainy season? Yes

Direct or indirect pathway to ditches? indirect

Direct or indirect pathway to larger bodies of water? pond to east, infiltrates

Does surface water pond any place on site? adjacent in grassy area all ponds

Any impoundment areas or retention ponds? No

Any NPDES location points near the site? unknown

How does surface water drain on and around the flight line? overland to ditch with some ppt draining to old OWS (by General Services Bldg) which discharged to sanitary sewer

Preliminary Assessment – Conceptual Site Model Information

Groundwater:

Groundwater flow direction? unknown

Depth to groundwater? "

Uses (agricultural, drinking water, irrigation)? "

Any groundwater treatment systems? No

Any groundwater monitoring well locations near the site? No

Is groundwater used for drinking water? No

Are there drinking water supply wells on installation? No

Do they serve off-post populations? –

Are there off-post drinking water wells downgradient unknown

Waste Water Treatment Plant:

Has the installation ever had a WWTP, past or present? No

If so, do we understand the process and which water is/was treated at the plant? –

Do we understand the fate of sludge waste? No

Is surface water from potential contaminated sites treated? unknown

Equipment Rinse Water

1. Is firefighting equipment washed? Where does the rinse water go? –

No

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? No

3. Other?

Preliminary Assessment – Conceptual Site Model Information

Identify Potential Receptors:

Site Worker ✓

Construction Worker ✓

Recreational User

Residential

Child

Ecological

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

Documentation

Ask for Engineering drawings (if applicable). None avail.

Has there been a reconstruction or changes to the drainage system? When did that occur? No, pending decomposition when funding or system design placed

Appendix C
Photographic Log

APPENDIX C – Photographic Log

Army National Guard, Preliminary Assessment for PFAS	Army Aviation Support Facility#3	Jackson, Tennessee

Photograph No. 1

Description:

AASF#3 hangar interior, placards on 1 of 2 AFFF storage tanks (300 gallon capacity) for the hangar fire suppression system, AFFF tanks are currently bypassed such that water only would be discharged from overhead nozzles if activated during emergency.

Photograph No. 2

Description:

AASF#3 hangar interior, inactive AFFF system tanks (2) in background

APPENDIX C – Photographic Log

Army National Guard, Preliminary Assessment for PFAS	Army Aviation Support Facility#3	Jackson, Tennessee

Photograph No. 3

Description:

View west outside southeast corner of AASF#3 hangar, manhole for wastewater line visible in grass, which runs generally left to right in photo, (east to west) parallel with fencing visible in background

Photograph No. 4

Description:

View west outside southeast corner of AASF#3 hangar, wastewater lift station in foreground, wastewater line runs along fence line to west to the far side of airport

APPENDIX C – Photographic Log

Army National Guard, Preliminary Assessment for PFAS	Army Aviation Support Facility#3	Jackson, Tennessee

Photograph No. 5

Description:

New NOVEC 1230 cart

Photograph No. 6

Description:

Two out of service AFFF carts stored in the wash rack building

APPENDIX C – Photographic Log

Army National Guard, Preliminary Assessment for PFAS	Army Aviation Support Facility#3	Jackson, Tennessee

Photograph No. 7

Description

Inside active wash rack building, washwater flowing into floor drain piped to OWS and then discharged to airport wastewater system.

Photograph No. 8

Description:

View southeast, AASF#3 hangar on left, wash rack building on right.

APPENDIX C – Photographic Log

Army National Guard, Preliminary Assessment for PFAS	Army Aviation Support Facility#3	Jackson, Tennessee

Photograph No. 9

Description:

View inside storage building with concrete floor, 11 containers of Ansul brand AFFF and other supplies are stored in the building

Photograph No. 1

Description:

View south of storage building surface drainage depression visible in grass. AASF# 3 hangar and wash rack building in background. Outside view to right is the flight line and former wash rack to left.

APPENDIX C – Photographic Log

Army National Guard, Preliminary Assessment for PFAS	Army Aviation Support Facility#3	Jackson, Tennessee

Photograph No. 2

Description:

View southeast from inside former wash rack area. AASF#3 hangar building in background on far right. Drainage from flight line conveyed, via shallow ditch oriented along fencing from west to east (right to left in image).

Reported decommissioned oil water separator located in grass beyond former wash rack area, now filled with gravel

Photograph No. 12

Description:

View east from former wash rack area. Area of ponding which receives runoff from the northern portion of the facility is located in the far background, beyond chain link fencing and entrance drive

APPENDIX C – Photographic Log

Army National Guard, Preliminary Assessment for PFAS	Army Aviation Support Facility#3	Jackson, Tennessee

Photograph No. 13

Description:

View northwest, surface drainage culvert, conveys surface flow north then east to ponded area outside facility