

PHASE I ENVIRONMENTAL SITE ASSESSMENT

HARRIS CORNER SITE

Northeast of Charlotte Highway Indian Land, Lancaster County, South Carolina 29707 Project Number 199LEN2302

PREPARED FOR:

Lennar Carolinas, LLC 6701 Carmel Road, Suite 425 Charlotte, North Carolina 28226

PREPARED BY:

ATLAS TECHNICAL 7606 Whitehall Executive Center Drive Suite 800 Charlotte, North Carolina 28273



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1.0 EXECUTIVE SUMMARY

1.1 General Information

Project Information:

Carolina Reserve Commons Site Project No. 199LEN2234 Northeast of Charlotte Highway Indian Land, SC 29707

Reconnaissance Date: February 1, 2023

Client Information: Lennar Carolinas, LLC 6701 Carmel Road, Suite 425 Charlotte, North Carolina, 28226 **Consultant Information:**

Atlas 7606 Whitehall Executive Center Drive Suite 800 Charlotte, NC 28273 704-529-3200

Environmental Professional Statement:

We declare that, to the best of our professional knowledge and belief, we meet the definition of *Environmental Professionals* as defined in § 312.10 part of 40 CFR 312. We have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the Subject Property. We have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Kenneth Windsand Project Manager Site Assessor

Honneth J. Windsand

H. Brad Hubbard Senior Project Manager Environmental Professional



1.2 Findings, Opinions and Conclusions

Atlas has performed this Phase I Environmental Site Assessment (ESA) of the Subject Property in conformance with the scope and limitations of ASTM Standard Practice E1527-13. Any exceptions to, or deletions from, this practice are described in Section 2.0 of this report. This assessment has revealed no evidence of a *recognized environmental condition* (REC) in connection with the Subject Property.

	FINDINGS, OPINIONS AND CONCLUSIONS SUMMARY							
	Report Section		Further REC CRE Action?	CREC	HREC	Other	Detail #/Description	
4.0	User Provided Information	No						
5.1.1	Federal Database Findings	No						
5.1.2	State and Tribal Database Findings	No						
5.1.2	Local Environmental Record Sources	No						
5.3	Historical Records Sources	No						
6.2	Hazardous Substance Use, Storage and Disposal	No						
6.3	Underground Storage Tanks	No						
6.4	Aboveground Storage Tanks	No						
6.5	Other Petroleum Products	No						
6.6	Polychlorinated Biphenyls (PCBs)	No						
6.7	Unidentified Substance Containers	No						
6.8	Nonhazardous Solid Waste	No						
6.9	Wastewater	No						
6.10	Waste Pits, Ponds and Lagoons	No						
6.11	Sumps	No						
6.12	Septic Systems	No						
6.13	Stormwater Management System	No						
6.14	Wells	No						
7.0	Subsurface Vapor Migration	No						
8.0	Interviews	No						

Wetlands

There is one Riverine Wetlands on the Subject Property based on the NWI Wetlands Online Mapper; an unnamed tributary of Six Mile Creek on the northeastern part, before flowing northeast out of the Subject Property.

Past Agricultural Use of the Subject Property:

Based on a review of historical sources and the current site reconnaissance, the Subject Property appeared to have been utilized for agricultural land from at least 1938 to the late 1990s. Such agricultural activity may have included the use of agricultural chemicals. The legal application (i.e., in accordance with manufacturer's specifications and customary practices) of such substances, in the course of standard operational practices does not constitute a "release to the environment." Further, no reasonably ascertainable information was obtained during the course of our assessment, including historical records review, site reconnaissance observations, and interviews with persons knowledgeable regarding past site history, that any obvious structures or material storage/handling areas where such substances may have accumulated were present, nor were any records encountered indicating that a past release had occurred. Therefore, the presence of this historical land use has not been identified as a *recognized environmental condition*. The User should take into consideration the historical use of the Subject Property when undertaking site development activities.

Buried Refrigerator Area:

A refrigerator was buried in front of the active residential dwelling located on the northeastern part of the Subject Property. This refrigerator was buried in 1988, the year before the residential dwelling was built. Staining and/or biologically stressed vegetation was not observed in the vicinity of the buried refrigerator.



This buried refrigerator does not represent a *recognized environmental condition*. The area where the buried refrigerator is located and backfilled raise the potential for geotechnical issues of future developments.

1.3 Significant Data Gaps

Data gaps may have been encountered during the performance of this ESA and are discussed in applicable sections of the report. According to the ASTM Standard Practice E1527-13, data gaps are only significant if "other information and/or professional experience raise reasonable concerns involving the data gap." No significant data gaps were identified in this report.

	SIGNIFICANT DATA GAP SUMMARY				
	Report Section	Description			
3.5 Current Uses of Adjoining Properties		No significant data gap identified.			
4.2 Environmental Liens or Activity and Use Limitations (AULs)		Lien search not available. Not considered a significant data			
		gap.			
5.1	Standard Environmental Records	No significant data gap identified.			
5.2	Physical Setting Sources	No significant data gap identified.			
5.3	Historical Records Sources	No significant data gap identified.			
6.1	Methodology and Limiting Conditions	No significant data gap identified.			
8.0	Interviews	No significant data gap identified.			



2.0 INTRODUCTION

2.1 Purpose

The purpose of this ESA was to identify recognized environmental conditions (RECs), controlled recognized environmental conditions (CRECs) and historical recognized environmental conditions (HRECs) in connection with the Subject Property at the time of the site reconnaissance. This report documents the findings, opinions, and conclusions of the ESA.

2.2 Scope of Work

This ESA was conducted in accordance with the ASTM Standard Practice E1527-13, consistent with a level of care and skill ordinarily practiced by the environmental consulting profession currently providing similar services under similar circumstances. Significant additions, deletions, or exceptions to ASTM Standard Practice E1527-13 are noted below or in the applicable sections of this report. The scope of this assessment included an evaluation of the following:

- Physical setting characteristics of the Subject Property through a review of referenced sources such as topographic and geologic maps, and soils and hydrologic reports.
- Usage of the Subject Property, adjoining properties and surrounding area through a review of referenced historical sources such as land title records, fire insurance maps, city directories, aerial photographs, prior reports and interviews.
- Observations and interviews regarding current Subject Property usage and conditions including the
 use, treatment, storage, disposal or generation of hazardous substances, petroleum products,
 hazardous wastes, nonhazardous solid wastes and wastewater.
- Usage of adjoining and surrounding area properties and the likely impact of known or suspected releases of hazardous substances or petroleum products from those properties in, on or at the Subject Property.
- Information in referenced environmental agency databases and local environmental records, within the specified approximate minimum search distance from the Subject Property.
- Potential for subsurface vapor migration in, on or at the Subject Property as described in Section 7.0.

2.3 Significant Assumption

No assumptions are considered to have a significant impact on the determination of *recognized environmental conditions* associated with the Subject Property.

2.4 Limitations and Exceptions

Atlas has prepared this Phase I ESA report using reasonable efforts to identify *recognized environmental conditions* associated with hazardous substances or petroleum products in, on or at the Subject Property. Findings contained within this report are based on information collected from observations made on the day(s) of the site reconnaissance and from reasonably ascertainable information obtained from certain public agencies and other referenced sources.

The ASTM Standard Practice E1527-13 recognizes inherent limitations for ESAs, including, but not limited to:

 Uncertainty Not Eliminated – An ESA cannot eliminate uncertainty regarding the potential for RECs in connection with the Subject Property.



- Not Exhaustive An ESA is not an exhaustive investigation of environmental conditions on the Subject Property.
- Past Uses of the Subject Property ESA requirements only require review of standard historical sources at five-year intervals. Therefore, past uses of Subject Property at less than five-year intervals may not be discovered.

Users of this report may refer to ASTM Standard Practice E1527-13 for further information regarding these and other limitations. This report is not definitive and should not be assumed to be a complete and/or specific definition of all conditions above or below grade. Current subsurface conditions may differ from the conditions determined by surface observations, interviews and reviews of historical sources. The most reliable method of evaluating subsurface conditions is through intrusive techniques, which are beyond the scope of this report. Information in this report is not intended to be used as a construction document and should not be used for demolition, renovation, or other property construction purposes. Any use of this report by any party, beyond the scope and intent of the original parties, shall be at the sole risk and expense of such user.

Atlas makes no representation or warranty that the past or current operations at the Subject Property are, or have been, in compliance with all applicable federal, state and local laws, regulations and codes. This report does not warrant against future operations or conditions, nor does it warrant against operations or conditions present of a type or at a location not investigated. Regardless of the findings stated in this report, Atlas is not responsible for consequences or conditions arising from facts not fully disclosed to Atlas during the assessment.

An independent data research company provided the government agency database referenced in this report. Information on surrounding area properties was requested for approximate minimum search distances and is assumed to be correct and complete unless obviously contradicted by Atlas's observations or other credible referenced sources reviewed during the assessment. Atlas shall not be liable for any such database firm's failure to make relevant files or documents properly available, to properly index files, or otherwise to fail to maintain or produce accurate or complete records.

Atlas makes no warranty, guarantee or certification regarding the quality, accuracy or reliability of any prior report provided to Atlas and discussed in this Phase I ESA report. Atlas expressly disclaims all liability for any errors or omissions contained in any prior reports provided to Atlas and discussed in this Phase I ESA report.

Atlas used reasonable efforts to identify evidence of aboveground and underground storage tanks and ancillary equipment on the Subject Property during the assessment. "Reasonable efforts" were limited to observation of accessible areas, review of referenced public records and interviews. These reasonable efforts may not identify subsurface equipment or evidence hidden from view by things including, but not limited to, snow cover, paving, construction activities, stored materials and landscaping.

Any estimates of costs or quantities in this report are approximations for commercial real estate transaction due diligence purposes and are based on the findings, opinions and conclusions of this assessment, which are limited by the scope of the assessment, schedule demands, cost constraints, accessibility limitations and other factors associated with performing the Phase I ESA. Subsequent determinations of costs or quantities may vary from the estimates in this report. The estimated costs or quantities in this report are not intended to be used for financial disclosure related to the Financial Accounting Standards Board (FASB) Statement No. 143, FASB Interpretation No. 47, Sarbanes/Oxley Act or any United States Securities and Exchange Commission reporting obligations, and may not be used for such purposes in any form without the express written permission of Atlas.

Atlas is not a professional title insurance or land surveyor firm and makes no guarantee, express or implied, that any land title records acquired or reviewed in this report, or any physical descriptions or depictions of



the Subject Property in this report, represent a comprehensive definition or precise delineation of Subject Property ownership or boundaries.

The Environmental Professional Statement in Section 1.1 of this report does not "certify" the findings contained in this report and is not a legal opinion of such *Environmental Professional*. The statement is intended to document Atlas's opinion that an individual meeting the qualifications of an Environmental Professional was involved in the performance of the assessment and that the activities performed by, or under the supervision of, the *Environmental Professional* were performed in conformance with the standards and practices set forth in 40 CFR Part 312 per the methodology in ASTM Standard Practice E1527-13 and the scope of work for this assessment.

Per ASTM Standard Practice E1527-13, Section 6, User Responsibilities, the User of this assessment has specific obligations for performing tasks during this assessment that will help identify the possibility of recognized environmental conditions in connection with the Subject Property. Failure by the User to fully comply with the requirements may impact their ability to use this report to help qualify for *Landowner Liability Protections* (LLPs) under Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). Atlas makes no representations or warranties regarding a User's qualification for protection under any federal, state or local laws, rules or regulations.

In accordance with the ASTM Standard Practice E1527-13, this report is presumed to be valid for a six-month period. If the report is older than six months, the following information must be updated in order for the report to be valid: (1) regulatory review, (2) site visit, (3) interviews, (4) specialized knowledge and (5) environmental liens search. Reports older than one year may not meet the ASTM Standard Practice E1527-13 and therefore, the entire report must be updated to reflect current conditions and Subject Property-specific information.

Other limitations and exceptions that are specific to the scope of this report may be found in corresponding sections.

2.5 Special Terms and Conditions (User Reliance)

This report is for the use and benefit of, and may be relied upon by, Lennar Carolinas, LLC, and any of its affiliates, and third parties authorized in writing by, Lennar Carolinas, LLC, and Atlas, including the lender(s) in connection with a secured financing of the Subject Property, and their respective successors and assigns. Any third party agrees by accepting this report that any use or reliance on this report shall be limited by the exceptions and limitations in this report, and with the acknowledgment that actual site conditions may change with time, and that hidden conditions may exist at the Subject Property that were not discovered within the authorized scope of the assessment. Any use by or distribution of this report to third parties, without the express written consent of Atlas, is at the sole risk and expense of such third party.

Atlas makes no other representation to any third party except that it has used the degree of care and skill ordinarily exercised by environmental consultants in the preparation of the report and in the assembling of data and information related thereto. No other warranties are made to any third party, either express or implied. Atlas accepts no liability for environmental impact to, or from, the site, regardless of the date of occurrence.



3.0 SITE DESCRIPTION

3.1 Location and Legal Description

The Subject Property is located northeast of Charlotte Highway (US Highway 521), in Indian Land, Lancaster County, South Carolina. The total acreage of the three Parent Parcels consists of approximately 60.27 acres of mostly vacant grass fields and wooded land with a paved road (Laurel Hill Road) and a gravel road (Murphy Drive). The Subject Property consists of approximately 42.87 acres that resides within the Parent Parcels. The Subject Property is bound to the southwest by Charlotte Highway, with two roads that access the Subject Property from Charlotte Highway (Murphy Drive located on the northwestern part, and Laurel Hill Road located on the southern part). The Site Vicinity Map is presented in Appendix A. The Site Plan is presented in Appendix B. Site Photographs are provided in Appendix C. According to information obtained from the Lancaster County Geographic Information System (GIS) website, the Subject Property is contained within three parcels identified by Parcel Identification Numbers (PIN) No. 0013-00-067.00 (portion), 0013-00-067.02, and 0013-00-135.00; the owners of which are listed as James E. Harris and others, Trustees Jamison Jeannie Harris, Trustee, and HWP Properties LLC, respectively.

3.2 Surrounding Area General Characteristics

The Subject Property is located in Indian Land, South Carolina, in an area characterized by residential and commercial use, and vacant wooded land. Specific adjacent and abutting sites are summarized in Section 3.5.

3.3 Current Use of the Subject Property Improvements and Use

The Subject Property encompasses approximately 42.87 acres of wooded and vacant land, with a gravel access road to the northwest and a paved asphalt road to the south. The Subject Property currently has one occupied residential dwelling, as well as six sheds, two garages, a well house, a stables structure, and remains of a burned house. An unnamed tributary of Six Mile Creek is located on the northeastern part which flows east out of the Subject Property.

3.4 Description of Subject Property Improvements

The following provides a general description of Subject Property improvements.

SUBJECT PROPERTY IMPROVEMENTS				
Size of Subject Property (approximate acreage)	42.87 acres			
General Topography of Subject Property	There are topographic high points on the western part of the Subject Property and surface topography slopes generally toward an unnamed tributary of Six Mile Creek on the northeastern part, and a freshwater pond located south of the Subject Property, which drains to the east.			
Adjoining and/or Access/Egress Roads	Murphy Drive accesses the northwestern part, and Laurel Hills Road accesses the southern part of the Subject Property.			
Paved or Concrete Areas (including parking)	Laurel Hills Road			
Unimproved Areas	Subject Property is primarily vacant wooded land.			
Landscaped Areas	Near residential dwelling.			
Surface Water	An unnamed tributary of Six Mile Creek is located on the northeast side of the Subject Property.			
Potable Water Source	Active residential is on water supply well. Lancaster City Public Works in the surrounding area.			
Sanitary Sewer Utility/Septic	Lancaster City Public Works is in the surrounding area.			
	A septic permit associated with parcel 0013-00-135.00 was obtained from SCDHEC, and the active residential dwelling has a septic system.			



SUBJECT PROPERTY IMPROVEMENTS			
Storm Sewer Utility	Lancaster City Public Works is in the surrounding area.		
Electrical Utility	Duke Energy in the surrounding area.		
Natural Gas Utility	Lancaster County Natural Gas Authority in the surrounding area		
Current Occupancy Status	One occupied residence		
Unoccupied Buildings/Spaces/Structures	Six sheds, two garages, a well house, a stables structure, and remains of a burned house		
Number of Occupied Buildings	One		
Building Name or General Building Description	168 Laurel Hill Road		
Number of Floors	Two		
Total Square Feet of Space (approximate)	2,720 – residential		
	1,600 – garage on parcel 0013-00-135.00		
Construction Completion Date (year)	1989 – residential		
	1992 - garage		
Construction Type	Wood		
Interior Finishes Description	Vinyl with carpeting, wood		
Exterior Finishes Description	Wood siding, gable roof		
Cooling System Type	Central		
Heating System Type	Central		
Emergency Power	None		

3.5 Current Uses of Adjoining Properties

Current uses of the adjoining areas were observed to be as follows:

Direction from Subject Property	Address	Occupant(s) Name	Current Use	Potential Environmental Conditions
North to northeast	224 Murphy Drive 2072-2114 Clarion Drive 8036 Charlotte Highway	Single-family Residentials	Residential and Vacant Wooded Land	None
East	248, 267, and 351 Laurel Hills Road 112 Hatchway Road	Single-family Residential	Residential and Vacant Land	None
South	136 Laurel Hills Road	Single-family Residential	Residential and Vacant Wooded Land	None
	7864 Charlotte Highway	Aldi	Grocery Store – Commercial / parking lots	None
West -southwest	Vacant land	NA	Vacant Land	None
West- southwest (west side of Charlotte Highway)	The Retreat of Rayfield	Residential neighborhood – single family residential	Residential and Vacant Wooded Land	None
	8037 Charlotte Highway	Trimal & Myers Law Offices	Office bulding	None

Based on observations during the Subject Property reconnaissance, no indications of current, nearby, off-site commercial or industrial operations were identified, with exception to the recently developed Aldi grocery store located south of the Subject Property. No *recognized environmental conditions* were observed.



4.0 PROVIDED INFORMATION

The following section summarizes information and documentation provided by Lennar Carolinas, LLC (User) with regard to User Responsibilities outlined in ASTM Standard Practice E1527-13. Documentation may be found in Appendix D or as referenced elsewhere in this report.

4.1 Title Records

The User provided no title records information.

4.2 Environmental Liens or Activity and Use Limitations (AULs)

The User did not provide environmental lien search documentation or request Atlas to conduct a review of environmental liens and AULs for the Subject Property. The User indicated that they were not aware of environmental liens or AULs in relation to the Subject Property.

The lack of review of environmental liens and AULs represent a data gap. Based on the information provided to Atlas by the Subject Property contact and from review of the historical resources, this data gap is not considered to be significant and should have no impact on the determination of *recognized environmental conditions* for this Phase I ESA.

4.3 Specialized Knowledge or Experience of the User

The User provided no specialized knowledge regarding *recognized environmental conditions* associated with the Subject Property.

4.4 Significant Valuation Reduction for Environmental Issues

The User provided no information regarding a significant evaluation reduction for environmental issues associated with the Subject Property.

4.5 Owner, Property Manager and Occupant Information

The User did not provide specific information identifying the Subject Property owner, manager, or occupant.

4.6 Reason for Performing ESA

The User indicated that the reason for performing this Phase I ESA was related to a Subject Property transfer.

4.7 User Provided Documentation

User Provided Documents as described in the ASTM Standard Practice E 1527-13 were reviewed for this assessment are as follows, and found in Appendix D:

Carolina Reserve Commons Residential Oppotunity

— Overall Concept Site Plan, prepared by MPV Properties, LLC, date not provided.



5.0 RECORDS REVIEW

5.1 Standard Environmental Records

The regulatory agency database report discussed in this section, provided by Environmental Data Resources (EDR) of Shelton, Connecticut, was reviewed for information regarding reported use or release of hazardous substances and petroleum products on or near the Subject Property. Unless otherwise noted, the information provided by the regulatory agency database report and other sources referenced in this report, were considered sufficient for recognized environmental condition (REC), controlled recognized environmental condition (CREC), historical recognized environmental condition (HREC) or de minimis condition determinations without conducting supplemental agency file reviews. Atlas also reviewed the "unmappable" (also referred to as "orphan") listings within the database report, cross-referencing available address information and facility names. Unmappable sites are listings that could not be plotted with confidence, but are potentially in the general area of the Subject Property, based on the partial street address, city, or zip code. Any unmappable site that was identified by Atlas as being within the approximate minimum search distance from the Subject Property, based on the Subject Property reconnaissance and/or cross-referencing to mapped listings, is included in the discussion within this section. The complete regulatory agency database report may be found in Appendix E.

The following is a summary of the findings of the regulatory agency database review.

SUMMARY OF FEDERAL, STATE AND TRIBAL DATABASE FINDINGS					
Regulatory Database	Search Distance (Miles)	Subject Property?	# Sites Listed		
Federal National Priority List (NPL)	1 mile	No	0		
Federal Delisted NPL	1 mile	No	0		
Federal Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) list	½ mile	No	0		
Federal CERCLIS No Further Remedial Action Planned (NFRAP)	½ mile	No	0		
Federal Resource Conservation and Recovery Act (RCRA), Corrective Action facilities (CORRACTS)	1 mile	No	0		
Federal RCRIS non- CORRACTS Treatment, Storage, and Disposal Facilities (TSD)	½ mile	No	0		
Federal RCRA Generators	1/4 mile	No	0		
Federal Institutional Control/Engineering Control Registry	½ mile	No	0		
Federal Emergency Response Notification System (ERNS) list	Subject Property	No	0		
State and Tribal NPL (NC HSDS)	1 mile	No	0		
State and Tribal CERCLIS (SHWS)	1 mile	No	0		
State and Tribal Landfill or Solid Waste Disposal Sites	½ mile	No	0		
State and Tribal Leaking Underground Storage Tanks (LUST)	½ mile	No	2		
State and Tribal LUST TRUST	½ mile	No	0		
State and Tribal Registered Underground Storage Tanks (UST)	1⁄4 mile	No	1		
State and Tribal Registered Aboveground Storage Tanks (AST)	¼ mile	No	0		
State Leaking AST (LAST)	½ mile	No	0		
State Incident Management Database (IMD)	½ mile	No	0		
State and Tribal Institutional Control/Engineering Control Registry	½ mile	No	1		
State and Tribal Voluntary Cleanup Site	½ mile	No	0		
State and Tribal Brownfield Sites	½ mile	No	0		
Facility Index Database System (FINDS)	Subject Property	No	0		
GWIC	½ mile	No	2		
EDR US Historical Auto Station	1/4 mile	No	0		



SUMMARY OF FEDERAL, STATE AND TRIBAL DATABASE FINDINGS					
Regulatory Database	Search Distance (Miles)	Subject Property?	# Sites Listed		
EDR US Historical Cleaners	1/4 mile	No	0		

The Subject Property was not identified on the reviewed regulatory databases.

5.1.1 Federal, State and Tribal Agency Database Findings

The following facility was identified in proximity to the Subject Property:

Mr. B's Market (former)

8083 Charlotte Highway, Fort Mill, South Carolina

Databases: LUST, UST, GWIC, RCR, Financial Assurance

Approximate Distance from the Property: 979 feet north to northwest (based on EDR)

Assumed Groundwater Gradient: Upgradient

Regulatory Data Summary: The former Mr. B's Market site is listed on the State Leaking Underground Storage Tank (LUST), Underground Storage Tank (UST), Registry of Conditional Remedies (RCR), Groundwater Contamination Inventory (GWCI), and Financial Assurance databases. According to the regulatory database review, this facility formerly utilized four 4,000-gallon steel gasoline USTs and one 4,000 gallon, kerosene UST that were owned and serviced by Estate of Gene D Bolton. The USTs on the site were installed in 1977, and the notification of operations for the USTs occurred on August 20, 1987. A release was reported on December 17, 1998 from the UST system during removal activies of the the five USTs, but was not specified which UST had the release. All five USTs were removed during the removal activities. Remediation and groundwater monitoring on the property began in June of 2000. Clean up of the groundwater to Maximum Contaminant Levels (MCLs) was achieved in August of 2004, and a notice of No Further Action (NFA) was issued on August 30, 2004. The monitoring wells were abandoned/removed by Landprobe Environmental and Geotechnical Drilling Servces on March 13, 2008. The site is currently utilized as a tavern (Brew's Tavern).

Discussion: Based on the site being closed out with an NFA, groundwater cleaned up to below MCLs, and distance from the Subject Property, the database listings associated with the former Mr. B's Market property do not represent a *recognized environmental condition*.

Based on distance, topography, assumed groundwater gradient, current regulatory status, and/or the absence of reported releases, none of the other sites listed in the federal, state and tribal agency databases searched are considered to represent a likely past, present or material threat of release in, on, or at the Subject Property. Given the physical setting characteristics of the Subject Property and surrounding area, supplemental agency file reviews were not warranted to verify the database report information.

5.1.2 Local Environmental Records Sources

Local Health and Environmental Agencies

Atlas contacted the Lancaster County Health Department to inquire about records pertaining to USTs, wells, septic systems, and other environmental-related issues for the Subject Property. According to Sophie Davies, Administrative Specialist with the Lancaster County Health Department, there are no records on file for the 0013-00-067. 00 or 0013-00-067.02 parcels. The Lancaster County Health Department did have a record of a septic system permit for parcel 0013.00.135.00, The permit approved in 2004 for an approximately 1,000 gallons. The tank is located southeast of the existing garage on the Subject Property. A copy of the permit is included in Appendix L.



Fire Department

During the site walk Atlas observed the remains of a burnt house. Atlas interviewed the property owner, Bob Harris, who confirmed that the house remains have not been removed from the Subject Property.

Atlas contacted the Indian Land Fire Rescue Department to inquire about records related to fires and/or spills at the Subject Property. Captain Chris Miller responded and said to contact the Lancaster County Emergency Operations Center to assist with the request.

Atlas contact the Lancaster County Emergency Operations Center and submitted a FOIA request to Lancaster County to inquire about records related to fires and/or spills at the Subject Property. According to Lancaster County Fire Rescue Department personnel Mike Magette – Fire Marshall, there is a reported fire that occurred on the Subject Property. Fire Marshall Mike Magette provided a Fire Incident Report. The fire department responded to a fire that occurred at 154 Laurel Hill Road residential dwelling on May 26, 2016. The fire department used approximately 9,500 gallons of water and 10 gallons of foam to put out the fire. Atlas reviewed the safety data sheet (SDS) of the type of foam used (National Foam Responder Class A concentrate) to suppress the fire. Review of the foam suppressant SDS stated the product contained sulfates and ethers instead of fluorinated (per- and polyfluoroalkyl substances - PFAS) compounds. The remains of the housefire have not been identified as a *recognized environmental condition*based on observed conditions. A copy of the fire report and SDS for the foam suppressant are included in Appendix L.

Department of Planning and Zoning

The Lancaster County GIS website indicated that the land use description for parcels 0013-00-067. 00 0013-00-067.02, and 0013.00.135.00 are low density residential, LDR. No zoning violations were identified.

Municipal Water and Sanitary Sewer Utility

Atlas confirmed that the Lancaster County Wastewater Collection provides sanitary sewer utility and Lancaster County Water Service Division provides municipal water to the surrounding area. Atlas received a copy of the latest Lancaster County Water Quality Report, which is included in Appendix L.

Other Local Environmental Records Sources

Atlas identified a single property (former Mr. B's Market)that required Atlas to submit a Freedom of Information Act (FOIA) with the South Carolina Department of Environmental Control (SCDHEC) regarding any records of environmental releases of hazardous material/hazardous waste incidents as maintained by SCDHEC. Findings from the records review are discussed in Section 5.1.1.

5.2 Physical Settings Sources

5.2.1 Topography

According to the USGS Topographic 7.5-Minute Series *Catawba NE, South Carolina* quadrangle map, dated 2020, the Subject Property is located in an area with an approximate elevation between 565 and 640 feet above mean sea level (amsl). The western parts of the Subject Property are on a topographic high point and surface topography slopes generally toward an unnamed tributary of Six Mile Creek on the northeastern part and a freshwater pond located south of the Subject Property. Drainage appears to be to the east. A copy of the topographic map is included in Appendix A.

5.2.2 Geology

According to the Geologic Map of South Carolina, the Subject Property is located in the Charlotte terrane which is part of the Piedmont Physiographic Province of South Carolina. The shallow subsurface in most areas of the Piedmont, including the Subject Property, contains residual soil overburden, including



structure-free residuum, saprolite, and partially weathered rock (PWR) that each derive from in-place weathering of the crystalline bedrock. Occasional areas of recent deposits of alluvium in the uppermost subsurface are found near streams and rivers. Saprolite and PWR typically contain some relict structures from the original rock material. Depth to rock ranges from ground surface at occasional outcrops to depths of greater than 100 feet in areas of easily weathered rock.

5.2.3 Soils

According to information obtained from the United States Department of Agriculture (USDA) Soil Conservation Service (SCS) Web-Based Soil Survey, the Subject Property is primarily underlain by Herndon silt loam, two to six percent slopes, eroded, Nanford loam, 10 to 15 percent slopes, eroded, Georgeville silty clay loam, two to six percent and Georgeville silty clay loam, 6 to 10 percent slopes, severly eroded.

Herndon silt loam, two to six percent slopes, eroded soils are well drained and located on hillslopes, summits and interfluves. A typical soil profile consists of silt loam to six inches below ground surface (bgs), transitioning to silty clay to 34 inches bgs, then to silty clay loam to 45 inches bgs, and then to silt loam to 52 inches bgs. Permeability is moderately high to high, and the available water storage is high.

Nanford loam, 10 to 15 percent slopes, moderately eroded soils are well drained and located on backslopes, side slopes, and hillslopes. A typical soil profile consists of loam to three inches bgs, transitioning to silty clay loam to 18 inches bgs, then to silt loam to 29 inches bgs, and then to bedrock to 80 inches bgs. Permeability is moderately low to moderately high, and the available water storage is low.

Georgeville silty clay loam, six to 10 percent slopes, severly eroded soils are well drained and located on hillslopes, sholders, and interfluves. A typical soil profile consists of silty clay loam to six inches bgs, transitioning to silty clay to 31 inches bgs, and then to silt loam to 63 inches bgs. Permeability is moderately high to high, and the available water storage is high.

Georgeville silty clay loam, two to six percent slopes, severly eroded soils are well drained and located on hillslopes, summits, and interfluves. A typical soil profile consists of silty clay loam to six inches bgs, transitioning to silty clay to 31 inches bgs, and then to silt loam to 63 inches bgs. Permeability is moderately high to high, and the available water storage is high

A copy of the online soils map is included in Appendix L.

5.2.4 Hydrology

The shallow aquifer occurrence varies in depth from ground surface at springs, creeks, and rivers to as deep as 50 feet or more beneath upland surfaces in some parts of the Piedmont. Water in the alluvium or unconsolidated residual material, including saprolite and PWR, usually behaves as an unconfined, or water table, aquifer and will yield water with head elevation equivalent to the first elevation where water was encountered. Permeability varies with lithology and is typically relatively low in residual soils, with higher permeability in saprolite or PWR due to relict rock texture and variable susceptibility to weathering exhibited by different minerals in the rock. Groundwater flow in residual soils or alluvium is usually in rough concurrence with local topographic conditions and is toward local drainage features.

The bedrock fractures or other planar features generally constitute the bedrock aquifer, with the surrounding rock material being effectively impermeable. Along with fractures, contacts between rock bodies probably constitute zones of significant groundwater occurrence in the bedrock. Such features may not occur on predicable trends, at the same elevations, or even be present or directly connected in separate boreholes. In areas adjacent to creeks the bedrock groundwater generally discharges to the residuum or alluvium and then into the surface water. In upland areas away from surface water drainages, the bedrock aquifer is generally recharged by downward infiltration of residuum or alluvial aquifer water at locations where fractures intersect the bedrock surface.



For sites in the Piedmont, when gradient conditions are discussed, upgradient sites are in locations which could, based on topographic analysis, have shallow groundwater migration from them toward the project site. Sidegradient sites are nearby sites with equivalent elevation to the project site, which would be unlikely to have groundwater migration from them toward the project site, and downgradient sites are nearby sites which likely receive groundwater migration from beneath the project property.

Considering the surface topography for the Subject Property, as interpreted from the *Catawba NE, South Carolina* Quadrangle, unconfined groundwater flow in the uppermost hydrostratigraphic unit is anticipated to follow topography and flow east toward an unnamed tributary of Six Mile Creek on the northeastern part that flows northeast out of the Subject Property and a freshwater pond located south of the Subject Property. Considering the surface topography for the Subject Property, and typical regional hydrogeology, the localized groundwater flow direction is also anticipated to follow surface drainage flow directions. Factors such as underground structures, seasonal fluctuations, soil and bedrock geology, production wells, and other factors beyond the scope of this study often locally influence actual groundwater flow direction. The actual groundwater flow under the property can only be accurately determined by performing a hydrogeologic study, which is beyond the scope of this project.

5.2.5 Other Physical Setting Sources

Flood Plain Map

Atlas reviewed the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) for the Lancaster County, Community-Panel Number 45057C0079E, dated May 16, 2017. The Subject Property is located in Zone X, which is defined as areas determined to be outside the 500-year flood zone. A copy of the floodplain maps are included in Appendix L.

Wetlands Map

Atlas reviewed the United States Fish & Wildlife Service (USFWS) National Wetlands Inventory (NWI) Wetlands Online Mapper website for documented wetlands at the Subject Property. An unnamed tributary of Six Mile Creek (a Riverine Wetland) is located on the northeastern part which then flows northeast out of the Subject Property toward Six Mile Creek. A copy of the National Wetlands Inventory map is included in Appendix L.

5.3 Historical Records Sources

The following table summarizes the findings of the research presented below pertaining to historical Subject Property and surrounding area uses.

	HISTORICAL USE SUMMARY					
Period	Period Subject Property		Source(s)	Intervals/Comments		
Prior to 1941	Agricultural Land	Agricultural and	Aerial Photograph	Data gaps:		
	Vacant Wooded Land	Vacant Wooded	(1938)	Prior to 1938		
		Land				
		Sparce Residential				
1941 - 1960	Agricultural Land	Agricultural and	Topographic Map	Data gaps:		
	Vacant Wooded Land	Vacant Wooded	(1941)	1942-1950		
		Land	Aerial Photograph	1952-1964		
		Sparce Residential	(1951)			
1961 - 1980	Agricultural Land	Agricultural and	Aerial Photographs	Data gaps:		
	Vacant Wooded Land	Vacant Wooded	(1965, 1968, and	1969-1975		
		Land	1976)	1977-1982		
		Sparce Residential	Topographic Map			
			(1968)			



HISTORICAL USE SUMMARY						
Period	Subject Property	Surrounding Area	Source(s)	Intervals/Comments		
1981 - 2000	Agricultural Land Vacant Wooded Land Residential	Agricultural and Vacant Wooded Land Residential Deveopments	Aerial Photographs (1983, 1989, 1993, 1995, 1998, and 1999) Topographic Map (1988) City Directories (1995, 2000)	Data gap: None		
2001 - present	Vacant Wooded Land Residential	Agricultural Vacant Wooded Land Residential Developments	Aerial Photographs (2005, 2008, 2011, 2014, and 2017) Topographic Map (2014, 2017, 2020) City Directories (2005, 2010, 2014, 2017)	Data Gaps: None		

Available historical information sources researched in this assessment allowed uses of the Subject Property to be traced from the present back to 1938. Based on historical resources, and an interview with the Property Owner(Bob Harris), the Subject Property appeared to have been utilized for agricultural use from at least 1938 to late 1990s, and also utilized as cattle pasture. Residential dwellings are first depicted in the early 1980s along Laurel Hills Road, and there is still one active residential dwelling (built in 1989), as well as six sheds, two garages, a well house, a stables structure, and remains of a burnt house currently on the Subject Property. The surrounding area appeared to consist of vacant land, agricultural land, with sparse residential developments from at least 1938, increasing during the 1970s, 1990s, 2000s and 2010s.

Interval gaps (greater than five years) for information were encountered during the research of historical use information for the Subject Property and surrounding area. However, based on the review of available historical sources and because the Subject Property usage appeared unchanged over the periods in which the gaps were identified, these data gaps did not have an impact on the *recognized environmental condition* determinations of this assessment, and are not considered to be significant data gaps.

5.3.1 Aerial Photographs

Atlas reviewed available aerial photographs of the Subject Property and surrounding area as provided by EDR. Available aerial photographs ranged from 1938 to 2017. Information from aerial photographs was correlated with other historical sources, and the following are descriptions and interpretations from this review. Copies of reproducible aerial photographs are included in Appendix F.

			AERIAL PHOTOGRAPH SUI	MMARY		
Ī	Year Scale Subject Property			Surrounding Area		
	1938 1951	1" =500'	The Subject Property was depicted primarily as vacant wooded land with agricultural land to the north, and some areas to the south before the aerial is cropped and Atlas was not able to depict what was is on the southernmost parts. Murphy Road and Laurel Hills Road are depicted on the Subject Property in the 1951 aerial.	The surrounding area was depicted as agricultural fields containing row crops, pastureland, and undeveloped wooded land with residential homes along Charlotte Highway, and scattered residential to the north, and east.		



AERIAL PHOTOGRAPH SUMMARY						
Year	Scale	Subject Property	Surrounding Area			
1965 1968 1976	1" =500'	No notable changes to the Subject Property except for agricultural areas turning into vacant wooded land.	The surrounding area was depicted with increased residential development to the east (Laurel Hills Road) and west (Charlotte Highway). A freshwater pond was depicted to the south as well as residential and agricultural land use to the south.			
1983 1989 1993 1995 1998 1999	1" =500'	Two residential dwellings off of Laurel Hills Street are depicted to the south.	The surrounding area was depicted with increased residential development to the east (Laurel Hills Road) and along Charlotte Highway.			
2005 2008 2011 2014 2017	1" =500'	No notable changes are apparent on the Subject Property, with the exception of a possible shed built on the southern part of the Subject Property, associated with the 138 Laurel Hills Road dwelling.	The 224 Murphy Drive residential dwelling is first depicted in the 2005 aerial. Increased clearing of land for residential developments west of Charlotte Highway, and west to northwest of the Subject Property. Land to			
2021- (Figure 2)	See Figure 2		the south is depicted as during into vacant wooded land from agricultural use.			

The review of aerial photographs did not identify past uses indicating *recognized environmental conditions* at the Subject Property and surrounding area.

5.3.2 Fire Insurance Maps

A search for fire insurance maps for the Subject Property and surrounding area was conducted by EDR. No such maps with coverage for the Subject Property or surrounding area were located.

5.3.3 Subject Property Tax Files

Atlas reviewed reasonably ascertainable tax files on the Lancaster County GIS website for historical ownership information pertaining to the Subject Property. According to this information, the current owners of the Subject Property parcels are as James E. Harris *et al.*, Trustees for parcel 0013-00-067.00, Jamison Jeannie Harris, Trustee for parcel 0013-00-067.02, and and HWP Properties LLC for parcel 0013-00-135.00. The previous owners of parcel 0013-00-067.00 were listed as James E Harris Renewable Energy Development LLC *et al.* (2011), James E Harris, Trustee (2004), and Harris, Janie Lucille Wilson (1991). The previous owners of parcel 0013-00-067.02 is listed as Jeannie Harris Jamieson Trustee (1988). The previous owners of parcel 0013-00-135.00 were listed as Federal Home Loan Mortage Corporation (2007), Harold N. Armstrong and Betty J. (2004), Janie S. Armstrong (2003) Steven M. Totherow and Joan S. (2002), Michael W. Therrell Jr. (1997), and Mike Therrell (1980).

5.3.4 Recorded Land Title Records

The acquisition of recorded land title records was not required by the scope of work for the Phase I ESA.

5.3.5 Historical USGS Topographic Maps

Atlas reviewed available historical USGS Topographic Maps for information regarding past uses of the Subject Property as provided by EDR. Topographic map coverage was provided for the years 1941, 1968, 1988, 2014, 2017, and 2020.

 On the 1941 topographic map, the Subject Property was depicted as mainly vacant land with agricultural use, with Laurel Hills Road on the southern part and surrounding area depicted as vacant land and agricultural with sparce residential areas.



- On the 1968 and 1988 topographic maps, the Subject Property was depicted as mainly vacant land with a residential dwelling on the southern part along Laurel Hills Road, Murphy Road to the north, and a tributary of Six Mile Creek depicted on the northeastern part of Subject Property. The surrounding area was depicted as vacant land and agricultural with increased roadways and residential developments along Charlotte Highway, and Laurel Hills Road, and increased presence of ponds and water features across the area, including the pond directly south of the Subject Property. Schools and commercial development buildings were also depicted north and south of the Subject Property along Charlotte Highway.
- On the 2014, 2017, and 2020 topographic maps, the Subject Property was depicted as mainly vacant land with an unnamed tributary on the northeastern part of Subject Property. These topographic maps did not depict development, but surrounding roadways and physical features were shown. A fire station and cemetery were depicted to the south along Charlotte Highway, and a school and churches to the north of the Subject Property.

The review of historical USGS Topographic Maps did not identify past uses indicating *recognized environmental conditions* at the Subject Property or surrounding area. Documentation is included in Appendix G.

5.3.6 City Directories

Research regarding the availability of historical city directories was obtained from EDR. The following are descriptions and interpretations from the historical city directory review. Documentation is included in Appendix G.

CITY DIRECTORY SUMMARY					
Year	Subject Property	Surrounding Area			
1995	No associated addresses listed.	CHARLOTTE HIGHWAY: 7564 STEGALL, GEORGE 7572 BLANTON, TODD			
2000	No associated addresses listed.	CHARLOTTE HIGHWAY: 7560 PORTER, HELEN 7564 STEGALL, GEORGE 7576 COUICK, ALAN			
2005	No associated addresses listed.	CHARLOTTE HIGHWAY: 7560 PROTER, HELEN 7564 STEGALL, GEORGE J 7576 COUICK, ALAN			



	CITY DIRECTORY SUMMARY				
Year	Subject Property	Surrounding Area			
2010	LAUREL HILLS STREET: 154 JAMIESON, RUSSELL S 165 JAMIESON, JEANNIE H 184 WHEELER, JESSICA A	CHARLOTTE HIGHWAY: 7520 FAITH PRESBYTERIAN NEW CHURCH 7550 YARBOROUG, ANGES W 7553 YARBOROUGH TRACTORS & EQUIP 7564 LEDBETTER, KELLI J 7576 COUICK, ALAN 7580 521 BBQ & GRILL, FERGUSON FINANCIAL, FERGUSON FINANCIAL LLC, FIRST CITIZENS BANK, HEAR USA, INDIAN LAND PRIMARY CARE, MORTON & GETTYS, ONE ON ONE LEARNING CTR, SCOTT & STRINGFELLOW INC, SPRINGS INSURANCE, SUNROOMS WINDOWS & ETC 7583 INDIAN LAND BAPTIST CHURCH 7591 GRIFFIN, JAMIE L 7621 GRIFFIN, JERRY W 7624 521 STORAGE LLC 7641 DEL WEBB LIBRARY 7647 PULTE HOMES 7666 BARNETTE FAMILY MEDICINE, CHARLOTTE CARDIOLOGY ASSOC, MASSEY WILLIAM M MD, SANCER HEART & VASCULAR INST, SANGER HEART & VASCULAR INSTIT, VANCLEEFF, SANDER 7686 WALGREENS 7697 CVS PHARMACY 7776 TOTHEROW, KENNY 7923 YANG, WEI 7935 CHURCH, DANIELE 8097 MCCORKLE, JAMES O 8115 CUMMINS, BILLY K 8123 UNIT PAVING INC 8165 MYERS INSURANCE 8169 SUB SHACK 8171 TIAN TIAN CHINESE RESTAURANT MURPHY DRIVE: 224 MCCORKLE, DON L 266 DENISES BEAUTY SHOP LAUREL HILLS STREET: 183 HUTCHINSON, WALLACE W 246 KIMBRELL, AMY 248 THERRELL, MICHAEL 267 HILL, SCOTT A 294 TURBEVILLE, RUSSELL D 308 HARRIS, LOIS A 314 CATLEDGE, LARRY A 323 GRIFFIN, EULA J 333 WARD, MICHAEL D 340 ACCURATE PLUMBING SYSTEMS INC 351 NOBLETT, JIMMY A 355 MEDLOCK, WILLIAM B 363 CRAIG, JOE M 392 CARTER, JACOB J 407 MASSEY, ROGER W			
		414 SUTTERLIN, WILL C 433 BLACKWELDER, WILLIAM A 448 BLACKWELDER, JAMES R			



2014 LAUREL HILLS STREET: CHARLOTTE HIGHWAY: 7520 FAITH PRESBYTERIAN CHURCH 154 OCCUPANT UNKNOWN, 165 JAMIESON, JEANNIE H 7553 YARBOROUGH F H FARM TRACTORS & EQUIP 7564 STEGALL, GEORGE 184 KLEINMAN, EILEEN 7572 WOODS, CHARLES 7576 COLE, DEBORAH L 7580 521 BBQ & GRILL, BLACKWELL TRINAL LLC, FERGUSON NANCIAL LLC, FIRST CITIZENS BANK, INDIAN LAND PEDIATRICS, INDIAN LAND PRIMARY CARE, KELLER WILLIAMS REALTY, MORTON & GETTYS ATTYS, SPRINGS INSURANCE, SUNROOMS WINDOWS ETC INC, TRIMNAL & MYERS LLC, YOUR LIFE WELLNESS & PHYSICAL THERAP 7583 INDIAN LAND BAPTIST CHURCH 7591 GRIFFIN, JOSEPH 7612 LANDO LAW FIRM 7621 GRIFFIN, JERRY W 7624 521 STORAGE AND 521 STORAGE LLC 7641 DEL WEBB LIBRARY, 7655 KITHCART, LYN R **7659 WENDYS** 7666 KACI PAC, **BARNETTE** BAKER PRACTICECAROLINA LA, BOSWELL APRIL MD, BOWER, JAMES CHARLES MD, CAROLINAS HEALTHCARE SYSTEM, CHARLOTTE CARDIOLOGY ASSOCIATES PLLC, COSTELLO KACIE JO P, GETTELFINGER DENNIS MD, HAGGSTROM DANIEL MD, KIMMERLE GREGORY R MD, LANGFORD AMANDA DNP, MANDELL HOWARD MD, METROLINA NEUROLOGICAL ASSOCIATES, RYDERCOOK ALLAN MD. VAN CLEEFF SANDER MD, VAN SANDER, 7697 CVS PHARMACY 7715 BB&T 7734 OCCUPANT UNKNOWN. 7776 TOTHEROW, LISA 7923 YANG, WEI 8036 OCCUPANT UNKNOWN, 8067 OCCUPANT UNKNOWN 8075 OCCUPANT UNKNOWN, 8081 OCCUPANT UNKNOWN, 8083 BREWS TAVERN 8097 MCCORKLE, JAMES O 8115 CUMMINS, BILLY K **MURPHY DRIVE:** 224 MCCORKLE, DON L 226 MURPHY, JERRY L LAUREL HILLS STREET: 38 OCCUPANT UNKNOWN, 183 HUTCHINSON, WALLACE W 188 OCCUPANT UNKNOWN, 248 THERRELL, MICHAEL 267 HILL, SCOTT A 294 TURBEVILLE, RUSSELL D 308 HARRIS, LOIS A 314 OCCUPANT UNKNOWN, 323 LUKE, WILLIAM B 333 WARD, MICHAEL D 340 CATLEDGE, LARRY A 351 NOBLETT, JIMMY A 355 MEDLOCK, WILLIAM B 363 OCCUPANT UNKNOWN, 380 OCCUPANT UNKNOWN, 387 OCCUPANT UNKNOWN, 389 MAYE, CYNTHIA



	CITY DIRECTORY SUMMARY				
Year	Subject Property	Surrounding Area			
2017	No associated addresses listed.	392 OCCUPANT UNKNOWN, 407 MASSEY, ROGER W 414 SUTTERLIN, WILL C 427 ORNDOFF, KIM A 433 BLACKWELDER, ALEX 448 BLACKWELDER, JAMES R CHARLOTTE HIGHWAY: 7520 FAITH PRESBYTERIAN CHURCH 7553 YARBOROUGH TRACTORS & EQUIPMENT 7560 RAZORS EDGE 7580 CACHE SALON, FERGUSON FINANCIAL LLC, FIRST CITIZENS BANK, INDIAN LAND BARBER SHOP, INDIAN LAND PEDIATRICS, INDIAN LAND PRIMARY CARE, MORTON & GETTYS ATTYS, SOUTHEND TANNING, SUNROOMS WINDOWS ETC INC, TRIMNAL & MYERS LLC, YOUR LIFE WELLNESS & PHYSICAL THERAP 7583 INDIAN LAND BAPTIST CHURCH			
		7624 521 STORAGE 7641 DEL WEBB LIBRARY, LANCASTER COUNTY LIBRARY 7659 WENDYS 7666 BARNETT FAMILY MEDICINE CAROLINA LAK, BOWER JAMES CHARLES MD, CHARLOTTE CARDIOLOGY ASSOCIATES PLLC, COSTELLO KACIE JO PA C, DR MICHAEL S VERNON MD, GETTELFINGER DENNIS MD, HAGGSTROM DANIEL MD, LANGFORD AMANDA DNP, MANDELL HOWARD MD MASSEY WILLIAM MCNAIR, MECKLENBURG MEDICAL GROUPCAROLINA L, RYDERCOOK ALLAN MD, VAN CLEEFF SANDER MD, VAN SANDER MD 7686 REDBOX 7697 CVS PHARMACY 8083 JOHNNYS PUB & GRUB 8123 CAPREIT UNIT PAVING INCORPORATED MURPHY DRIVE: No addresses listed LAUREL HILLS STREET: No addresses listed			

The following were noted:

- There were multiple residential addresses associated with the Subject Property that were identified in the City Directories. The address of 154 Laurel Hills Street dates back to 2010; the names associated with the address were Ressell S. Jamison (2010) and Occupant Unknown (2014). The address of 165 Laurel Hills Street dates back to 2010; the names associated with the address was Jeannie H. Jamieson (2010 and 2014). The address of 184 Laurel Hills Street dates back to 2010; the names associated with the address were Jessica A. Wheeler (2010) and Eileen Kleinman (2014).
- Multiple adjacent residential, commercial, medical practices, and church addresses along Charlotte Highway, Murphy Drive, and Laurel Hill Street were identified in the City Directories dating back to 1995. The address of 8083 Charlotte Highway located west to northwest of the Subject Property appears on the City Directories dating back to 2014. The name that appear with the associated address are Brews Tavern (2014) and Johnny's Pub & Grill. This address was previously occupied by Mr. B's Market, that is discussed in Section 5.1.1.

The review of city directories did not identify past uses indicating *recognized environmental conditions* in, on, or at the Subject Property or surrounding areas.



5.3.7 Building Department Records

Research regarding building department records was conducted by Atlas through the Lancaster County Building Permit website. No historical use information was available for the Subject Property.

5.3.8 Zoning/Land Use Records

The Lancaster County GIS website indicated that the land use description for parcels 0013-00-067. 00 0013-00-067.02, and 0013.00.135.00 are all listed as low density residential, LDR. No zoning violations were identified.

5.3.9 EDR Exclusive Historical Records

No prior reports regarding the Subject Property were made available to Atlas for review.

5.3.10 Other Historical Sources

No other readily available historical sources were reviewed.



6.0 SITE RECONNAISSANCE

The following is a summary of visual and/or physical observations of the Subject Property on the day of the Subject Property visit. Photographs can be found in Appendix C.

6.1 Methodology and Limiting Conditions

Mr. Kenneth Windsand, Project Manager, with Atlas, conducted the Subject Property reconnaissance on February 1, 2023. The reconnaissance consisted of visual and/or physical observations of: the Subject Property and improvements; adjoining areas as viewed from the Subject Property; and, the surrounding area based on visual observations made during the trips to and from the Subject Property. Unimproved portions were observed along the perimeter and in a general grid pattern in safely accessible areas, if accessible and possible. The weather at the time of reconnaissance was cool and mostly cloudy and approximately mid to high-40s degrees Fahrenheit.

6.2 Hazardous Substance Use, Storage, and Disposal

Atlas did not observe the use, storage or disposal of hazardous substances, including hazardous wastes, on the Subject Property.

6.3 Underground Storage Tanks (USTs)

Atlas did not observe evidence of USTs on the Subject Property.

6.4 Aboveground Storage Tanks (ASTs)

Atlas did not observe evidence of ASTs on the Subject Property.

6.5 Other Petroleum Products

Atlas did not observe evidence of other petroleum products on the Subject Property.

6.6 Polychlorinated Biphenyls (PCBs)

Atlas observed three pole-mounted transformers on the Subject Property. The pole-mounted transformers were located on the overhead electrical power lines that run along Laurel Hill Road, and the access road in front of the active residential dwelling. No evidence of staining, leakage, or stressed vegetation was observed in these areas. The pole-mounted transformers are owned and maintained by the local electric utility service provider, Duke Energy.

6.7 Unidentified Substance Containers

Atlas did not observe unidentified substance containers on the Subject Property.

6.8 Nonhazardous Solid Waste

Atlas observed piles of scattered debris on the Subject Property. Among the materials observed of which the majority was, plastic containers, styrofoam, vehicle debris, tires, metal and aluminum cans, metal, paper, wood and plastic debris, furniture, terra cotta piping, carpeting debis, roof shingles, and household debris. None of the debris piles appear to represent landfilling or the burial of material; the debris appears to be surficial, and have not been characterized as hazardous substances or representative of commercial dumping or disposal. There was no observed evidence of stressed vegetation or staining on the ground in these areas. The piles of debris observed at the Subject Property have not been identified as a *recognized environmental condition*.

Atlas observed three empty metal and three empty plastic 55-gallon drums on the Subject Property. Staining and/or biologically stressed vegetation was not observed in the vicinity of these drums, which were



not observed to be buried or indicative of any landfilling. The plastic drums are located in front of the eastern garage structure, two of the metal drums are located behind the southeastern garage on the Subject Property, and one metal 55-gallon drum is located next to the southwestern shed on the Subject Property boundary. These empty drum areas have not been identified as a *recognized environmental condition*.

Atlas interview the property owner, Bob Harris who confirmed the majority of the non-hazardous debris observed on the property is surficial with the acception of one refrigerator that was buried near the surface in front of the active residential dwelling. This refrigerator was buried in 1988, the year before the current active residential dwelling was built. Staining and/or biologically stressed vegetation was not observed in the vicinity of the buried refrigerator. This buried refrigerator does not does not represent a *recognized environmental condition*. The location where the refrigerator is buried and backfilled raise the potential for geotechnical issues of future developments.

6.9 Wastewater

Atlas did not observe evidence of wastewater generated, treated or discharged (including sanitary sewage and stormwater) in, on or at the Subject Property.

6.10 Waste Pits, Ponds and Lagoons

Atlas did not observed evidence of waste pits, ponds or lagoons on the Subject Property.

6.11 Drains and Sumps

Atlas did not observe evidence of drains or sumps at the Subject Property.

6.12 Septic Systems

Atlas received county records of a septic system on the eastern part of the Subject Property located on parcel 0013-00-135-00. Atlas also interviewed the property owner, Bob Harris, who confirmed the occupied residential dwelling is on a septic system, and there is an inactive septic system located on the 0013-00-135-00 parcel. There was no observed evidence of stressed vegetation in the approximate areas of the septic systems. The septic systems on the Subject Property have not been identified as a *recognized environmental condition* based on the presumed use for domestic wastewater.

6.13 Storm water Management System

Stormwater at the Subject Property either infiltrates the ground or flows over the ground surface towards drainage ditches and an unnamed tributary of Six Mile Creek located on the northeastern part of the Subject Property, which flows northeast toward Six Mile Creek.

6.14 Wells

Atlas observed one water supply well located next to the active residential dwelling. Bob Harris confirmed that the active residential water source is the water supply well. The observed water supply well does not represent a *recognized environmental condition* based on observed condition.

Atlas confirmed a part of the parent parcel not within the Subject Property in the northwestern part contains- a water supply well as a water supply source, and the residential property located on the southern part of the Parent Parcel used a water supply well as the water supply source. The adjacent water supply wells do not represent a *recognized environmental condition*.

6.15 Agricultural Use

Based on a review of historical sources and the current site reconnaissance, the Subject Property appeared to have been utilized for agricultural land from at least 1938 to the late 1990s. Such agricultural activity may have included the use of agricultural chemicals. The legal application (i.e., in accordance with



manufacturer's specifications and customary practices) of such substances, in the course of standard operational practices does not constitute a "release to the environment." Further, no reasonably ascertainable information was obtained during the course of our assessment, including historical records review, site reconnaissance observations, and interviews with persons knowledgeable regarding past site history, that any obvious structures or material storage/handling areas where such substances may have accumulated were present, nor were any records encountered indicating that a past release had occurred. Therefore, the presence of this historical land use has not been identified as a *recognized environmental condition*. The User should take into consideration the historical use of the Subject Property when undertaking site development activities.

6.16 Railroad Spurs

Atlas did not observe railroad spurs on the Subject Property.



7.0 SUBSURFACE VAPOR MIGRATION

Atlas conducted a limited screening for potential vapor encroachment conditions (VECs) that may affect the Subject Property. The VEC screening focused on the current and historical usage of the Subject Property and utilized the aforementioned regulatory agency database report provided by EDR to evaluate identified Chemicals of Concern (COCs), including petroleum hydrocarbons. To identify the area of concern (AOC) for contaminated properties with non-petroleum hydrocarbon COCs, Atlas utilized the approximate minimum search distance defined by ASTM E 2600-10 of 1,760 feet (1/3 mile) from the Subject Property boundary for COC-contaminated sites. For properties contaminated with petroleum hydrocarbon COCs, Atlas utilized the AOC approximate minimum search distance of 528 feet (1/10 mile). The AOC was adjusted accordingly based on review of physical setting characteristics, known release information, Subject Property and land features, groundwater flow direction, and soil type, et al.

ASTM's Vapor Encroachment guidance indicates that when groundwater flow direction can be estimated or determined, the cross-gradient or downgradient radius distances can be significantly reduced. The EDR VES report calculates the reduced AOC distances when considering groundwater flow direction by utilizing the following default distances, which were determined using the Buonicore Methodology: The default distances include (non-petroleum hydrocarbon COCs) 1,760 feet in the upgradient direction; 365 feet in the cross-gradient direction; and 100 feet in the downgradient direction and (petroleum hydrocarbon COCs) 528 feet in the upgradient direction; 165 feet in the cross-gradient direction if Light, Non-Aqueous Phase Liquid, (LNAPL i.e. floating product) is suspected; 95 feet in the cross-gradient direction if no LNAPL is suspected; 100 feet in the downgradient direction (LNAPL not suspected); and 30 feet in the downgradient position (LNAPL not suspected).

Atlas reviewed potential sources of COCs from the facilities reported on the EDR database report and VES report. Based on review of regulatory information, no releases were reported, and VECs were not identified regarding the Subject Property.



8.0 INTERVIEWS

The following persons were interviewed to obtain information regarding environmental conditions in connection with the Subject Property.

INTERVIEW SUMMARY							
Role	Name	Title/Company	Туре	Years Associated with Subject Property			
Property Owner	Bob Harris	Property Owner	In-person	Family owned since the 1940s.			
Local Utility	Representative	Duke Energy and Lancaster County Natural Gas Authority	Phone	N/A			
State Health Department	Sophie Davies	Bureau of Environmental Health Services – SCDHEC – Administrative Specialist	Email	NA			
Local Government Official	Mike Magette	Indian Land Fire Rescue Department – Fire Marshall	Email	N/A			
Local Emergency Response	Steve Willis	Lancaster County Emergency Operations Center	Email	N/A			
Local Utility	Representative	Lancaster City Public Works	Email	N/A			

Pertinent information from the interviews is discussed in applicable sections of this report with details.



9.0 REFERENCES

ASTM International, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM Designation E1527-13. December 2013.

Lancaster County Geographic Information System Website (Lancaster County Qpublic.com - https://qpublic.schneidercorp.com/Application.aspx?AppID=211&LayerID=2815&PageTypeID=2&PageID=1551)

Environmental Data Resources, Inc. (EDR) *Aerial Photo Decade Package*, Inquiry Number 7022932.8, dated June 21, 2022.

Environmental Data Resources, Inc. (EDR) *City Directory Image Report,* Inquiry Number 7022932.5, dated June 21, 2022.

Environmental Data Resources, Inc. (EDR) Certified Sanborn® Map Report, Inquiry Number 7022932.3, dated June 17, 2022

Environmental Data Resources, Inc. (EDR) *Historical Topographic Map Report*, Inquiry 7022932.4, dated June 17, 2022.

Environmental Data Resources, Inc. (EDR) *The EDR Radius Map with GeoCheck*®, Inquiry Number 7022932.2s, dated June 17, 2022.

Environmental Data Resources, Inc. (EDR) *The EDR Radius Map with GeoCheck*®, Inquiry Number 7239351.2s, dated January 31, 2023.

South Carolina Geological Survey, Geologic Map of South Carolina, 1985.

United States Department of Agriculture-Soil Conservation Service Web-Based Soil Survey. https://websoilsurvey.sc.egov.usda.gov/App/WebSoilSurvey.aspx

United States Fish and Wildlife Service-National Wetlands Inventory Mapper Website. https://www.fws.gov/wetlands/data/Mapper.html

United States Federal Emergency Management: Flood Map Service Center Website. https://msc.fema.gov/portal/home



10.0 TERMS & ACRONYMS

The following provides definitions and descriptions of key terms and acronyms that may be used in this report. Italics indicate terms that are defined by ASTM Standard Practice E1527-13. The Standard Practice should be referenced for further detail (such as the precise wording), related definitions or additional explanation regarding the meaning of terms.

recognized environmental condition(s) (REC) - the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment.

material threat - a physically observable or obvious threat which is reasonably likely to lead to a release that, in the opinion of the environmental professional (EP), is threatening and might result in impact to public health or the environment. An example might include an aboveground storage tank system that contains a hazardous substance and which shows evidence of damage such that it may cause or contribute to tank integrity failure with a release of contents to the environment.

de minimis condition — is a condition that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of the appropriate governmental agencies. An example might include a release of hazardous substances or petroleum products that could reasonably and foreseeably result in a concentration exceeding the applicable regulatory agency risk-based residential standards or substantial damage to natural resources. The risk of that exposure or damage would represent a threat to human health or the environment. If an enforcement action would be less likely than not, then the condition is considered to be generally not likely the subject of an enforcement action. A condition determined to be de minimis is not a REC or controlled recognized environmental condition (CREC).

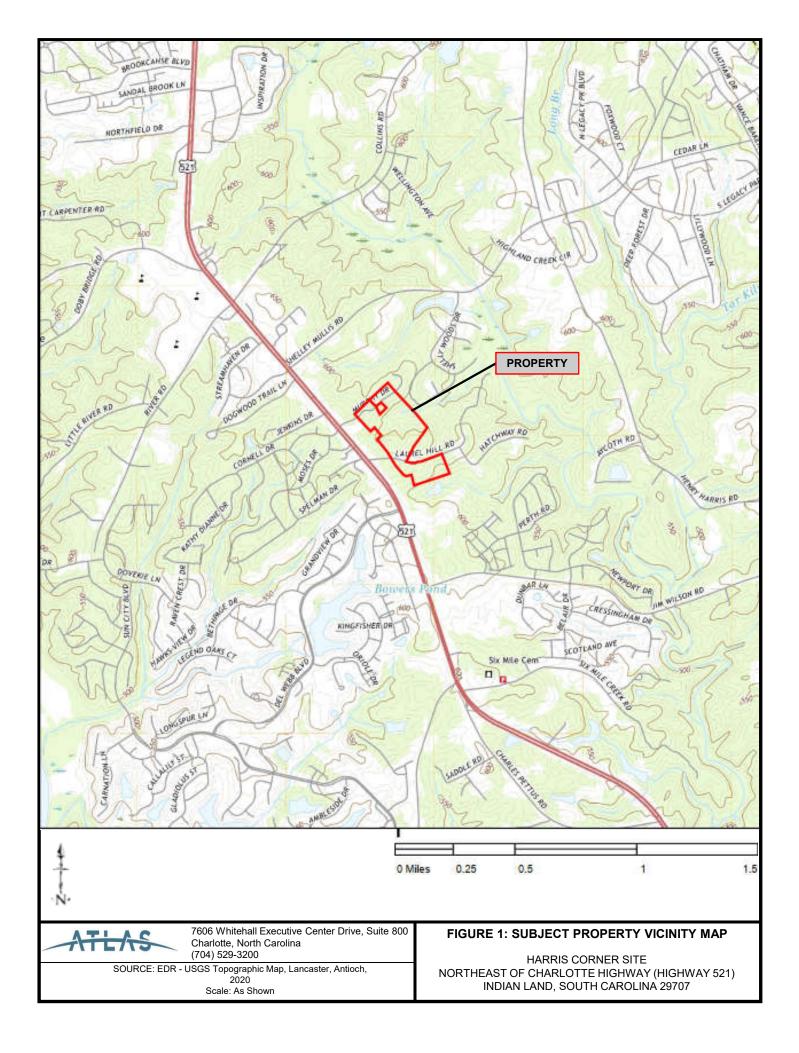
historical recognized environmental condition(s) (HREC) - a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls). Before calling the past release a HREC, the EP must determine whether the past release is a REC at the time the assessment is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past release to be a REC at the time the Phase I ESA is conducted, the condition will be reported in Section 1.2 the Findings and Conclusions Summary table as a REC.

controlled recognized environmental condition (CREC) - a recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, activity and use limitation, institutional controls, or engineering controls). Per E1527-13, a CREC will be reported in the Section 1.2 Findings and Conclusions Summary table as a CREC and a REC.

migrate/migration - refers to the movement of *hazardous substances* or *petroleum products* in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface.

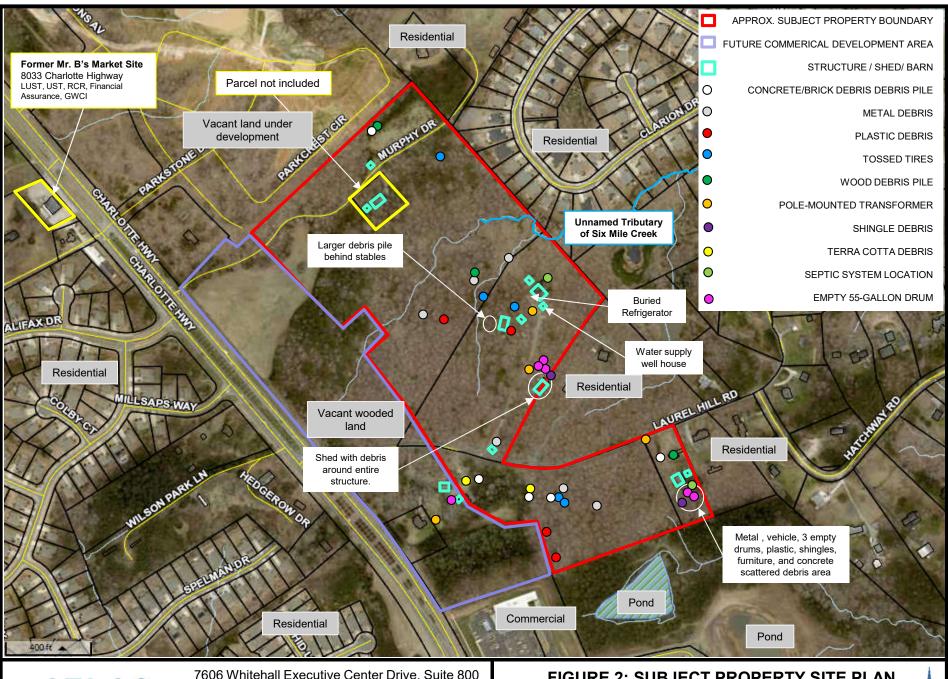


APPENDIX A SUBJECT PROPERTY VICINITY MAP





APPENDIX B SUBJECT PROPERTY SITE PLAN





7606 Whitehall Executive Center Drive, Suite 800 Charlotte, North Carolina 28273 (704) 529-3200

SOURCE: LANCASTER COUNY GIS WEBSITE

SCALE: = AS SHOWN **AERIAL DATE: 2021**

FIGURE 2: SUBJECT PROPERTY SITE PLAN



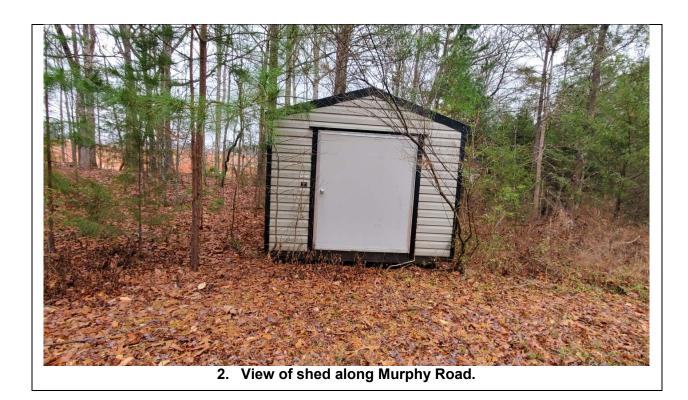
HARRIS CORNER SITE NORTHEAST OF CHARLOTTE HIGHWAY (HIGHWAY 521) INDIAN LAND, SOUTH CAROLINA 29707



APPENDIX C SUBJECT PROPERTY PHOTOGRAPHS



View of Murphy Road (view looking southwest).



Page **1** of **37** Lennar



View of residential dwelling not part of Subject Property located along Murphy **Drive**





5. View of north adjacent residential along Murphy Drive.



6. View of wood boxes and concrete debris along northwestern property boundary.



7. View of northwest adajcent cleared vacant property under development.



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9. View of wooded area along northwestern part of Subject Property.



10. Alternative view of unnamed tributary of Six Mile Creek on the Subject Property.



11. View of central unnamed tributary of Six Mile Creek on the Subject Property and northern adjacent residential in background.



12. General view of wooded areas on the central part of the Subject Property.



13. View of metal debris in dried up part of unnamed tributary in northeastern part of Subject Property.



14. View of metal and wood debris along central unnamed tributary on the Subject Property.



15. View of tossed tire on central part of Subject Property.



16. View of central wooded area and plastic animal feeder further back in central part of Subject Property.



17. View of hunting stand in central part of Subject Property.



18. View of southwestern wooded areas of Subject Property and hunting stand.





20. View of dilapidated structure along drive toward residence on parcel 0013-00-067.02



21. View of metal debris near dilapidated shed.



22. View of pole mounted transformer along access road to residential dwelling on parcel 0013-00-067.02.



23. View of occupied residential dwelling with well house and car port to the right and shed on the left behind the dwelling.



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25. View of shed next to active residence on Subject Property.



26. View of interior of active residence (photo from previous site visit).



27. View of tile flooring on inside of active residence (photo from previous site visit).



28. View of flooring in bathroom and kitchen of active residence (photo from previous site visit).



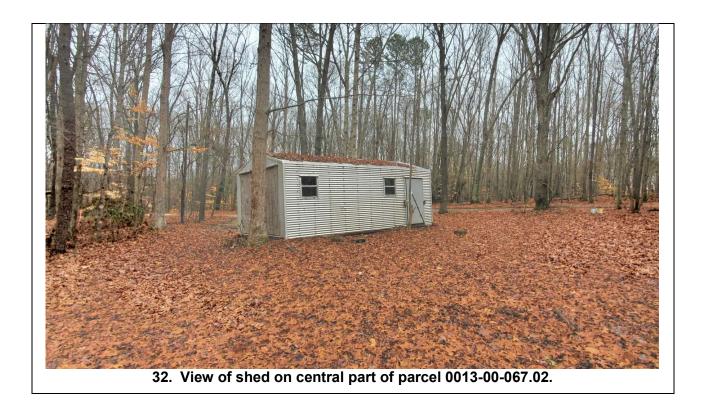
29. Interior view of shed near active residence (photo from previous site visit).



30. View of approximate located on buried refrigerator in front of active residential dwelling.



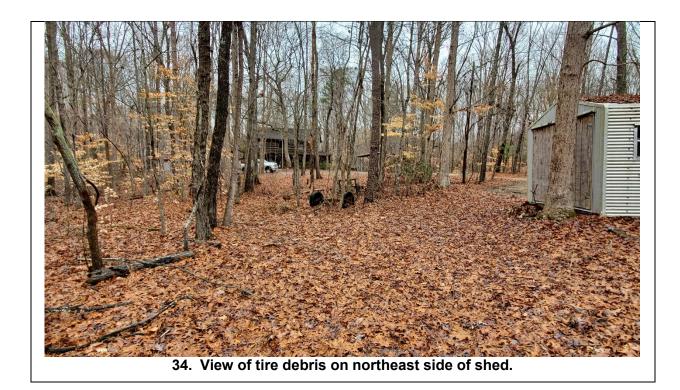
31. View of approximate location of septic system beind active residential dwelling (photo from previous site visit).



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33. Interior view of shed near stable.



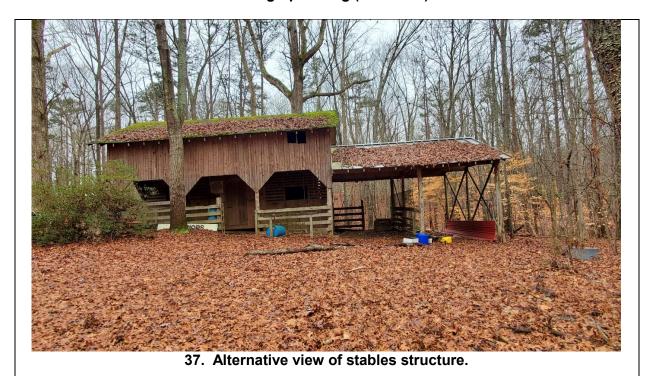
Lennar Page 17 of 37



35. View of former stables structure on parcel 0013-00-067.02 and debris around stables.



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39. View of polemounted transformer along road leading to active residential property.



40. View of shed/garage on border of parcel 0013-00-067.03 and 0013-00-067.03 (appears on Subject Property).

Lennar Page **20** of **37**



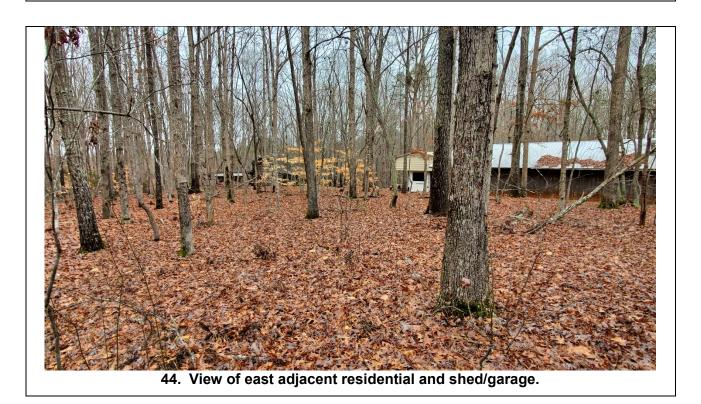
41. View of trailer and empty plastic drums on north side of shed.



Lennar Page **21** of **37**



43. View of misc debris on northeast side of shed/garage.

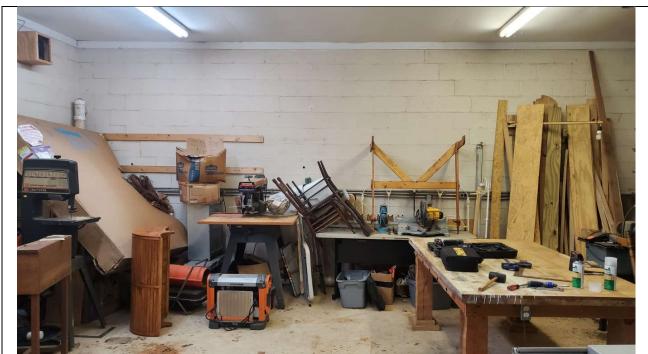




45. View of plastic, metal and tire debris on southwest side of shed/garage.



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47. Interior view of shed/garage on border of parcel 0013-00-067.03 and 0013-00-067.03 (appears on Subject Property).

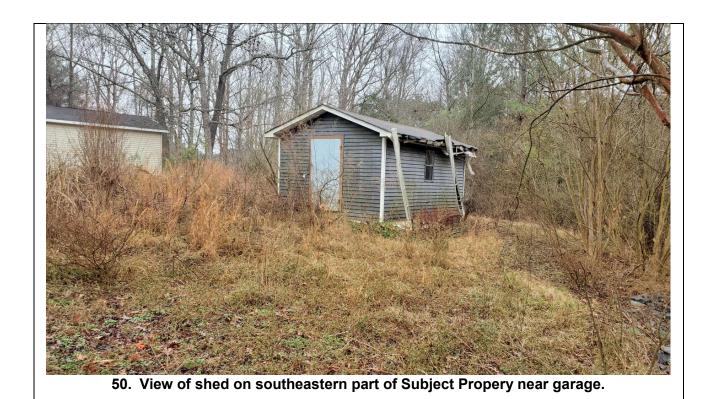


48. Interior view of shed/garage on border of parcel 0013-00-067.03 and 0013-00-067.03 (appears on Subject Property).

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49. View garage on southeastern part of Subject Property.



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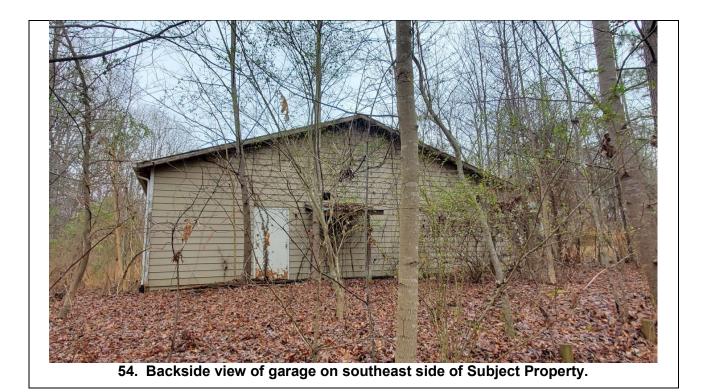
51. Interior view of shed on southeast side of Subject Property.



52. Interior view garage on southeastern part of Subject Property.



53. View of northeastern adjacent residential property along Laurel Hill Road.



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55. View of shingles, and wood debris behind southeast garage structure.





57. View of metal, empty drum, and vehicle behind southeast garage structure.



58. View of plastic containers, metal, carpeting debris, and empty drum behind southeast garage structure.



59. View of plastic debris on southeastern part of Subject Property.



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61. View of eastern property boundary and east adjacent vacant wooded land.



62. View of tossed tires, metal pails and concrete debris on southern part of Subject Property.



63. View of southeastern wooded area and east adjacent Aldi commerical building in background.



64. View of carpet, concrete, and terra cotta piping debris on southern part of Subject Property.



65. Debris pile from former residential property that burned down on southwestern border of planned residential and commercial area for developent of Parcel 0013-00-067.00.

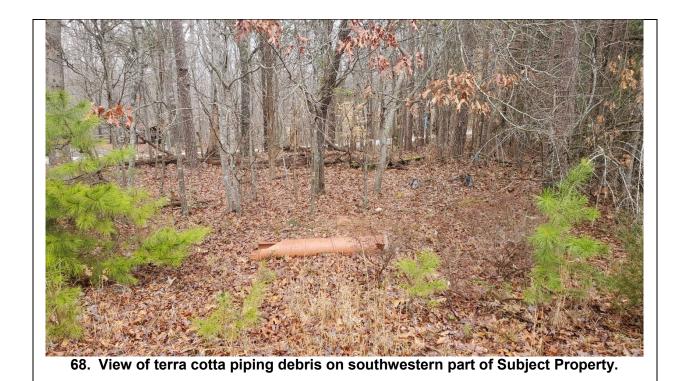


66. View of shed on southwestern border of planned residential and commercial area for developent of Parcel 0013-00-067.00.

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67. View of empty drum, and misc debris outside shed on southwestern property boundary.



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69. View of pole mounted transformer and residential property on southwestern part of Parent Parcel.



70. View of locate water utilty found along Charlotte Highway.



71. View of natural gas utility along Charlotte Highway.



72. View of former Mr. Bs market site (now a tavern / restaurant), located northwest of Subject Property.

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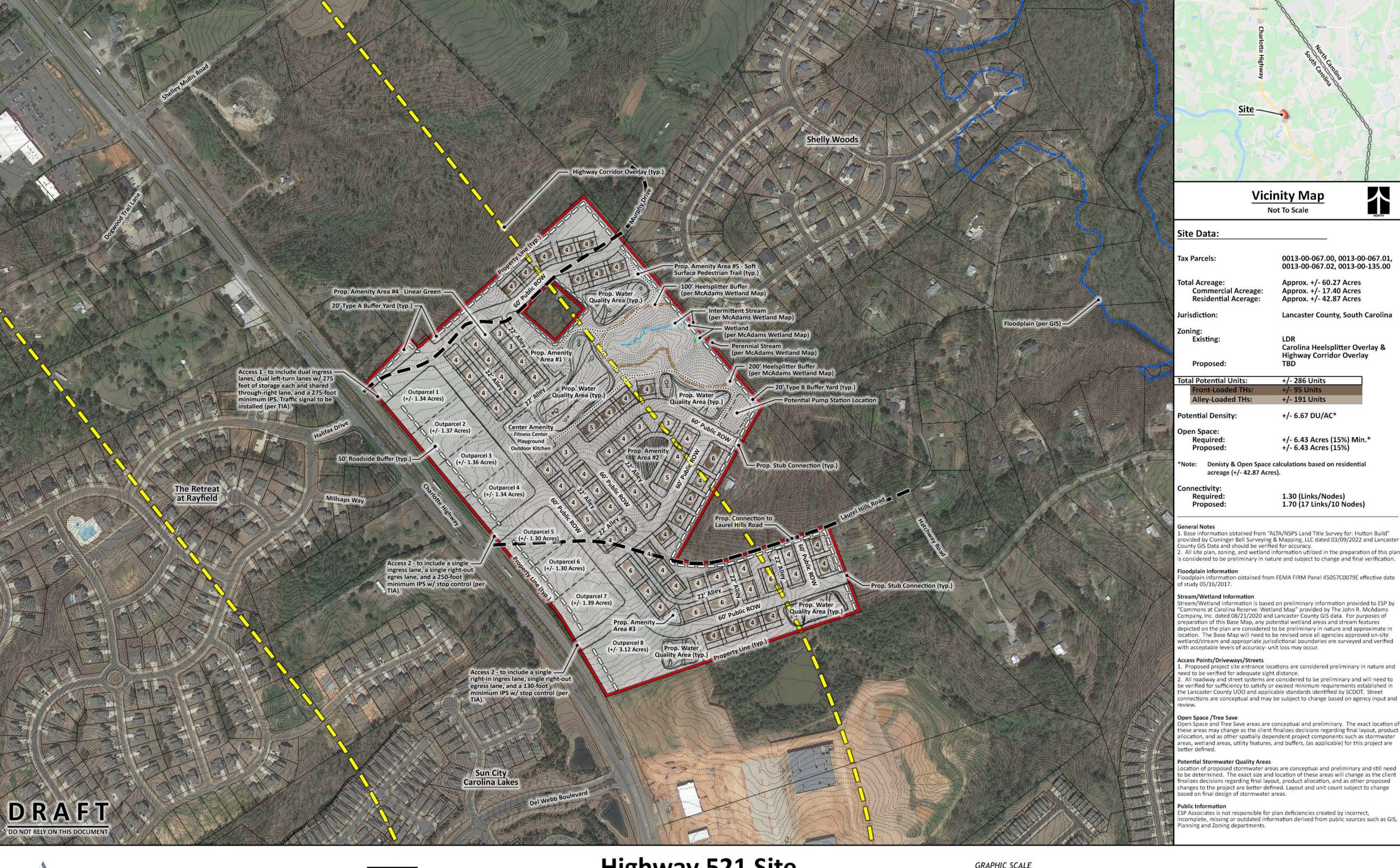
Photographic Log (2/01/2023)



73. View of southern adjacent pond from commerial property (area not safe to access for picture of pond).



APPENDIX D USER PROVIDED DOCUMENTATION







Highway 521 Site

1 INCH = 200 FT.



Vicinity Map

Not To Scale

0013-00-067.00, 0013-00-067.01,

0013-00-067.02, 0013-00-135.00

Lancaster County, South Carolina

Carolina Heelsplitter Overlay &

Highway Corridor Overlay TBD

+/- 6.43 Acres (15%) Min.* +/- 6.43 Acres (15%)

1.30 (Links/Nodes) 1.70 (17 Links/10 Nodes)

+/- 286 Units

+/- 95 Units

+/- 191 Units

+/- 6.67 DU/AC*

Approx. +/- 60.27 Acres

Approx. +/- 17.40 Acres

Approx. +/- 42.87 Acres



APPENDIX E REGULATORY DATABASE REPORT

Harris Corner 138 LAUREL HILL RD FORT MILL, SC 29707

Inquiry Number: 7239351.2s

January 31, 2023

The EDR Radius Map™ Report with GeoCheck®



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

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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 (E1527-21), 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

138 LAUREL HILL RD FORT MILL, SC 29707

COORDINATES

Latitude (North): 34.9453460 - 34 ^ 56' 43.24" Longitude (West): 80.8384730 - 80 ^ 50' 18.50"

Universal Tranverse Mercator: Zone 17 UTM X (Meters): 514749.8 UTM Y (Meters): 3866796.8

Elevation: 619 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 15786724 CATAWBA NE, SC

Version Date: 2020

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20150523 Source: USDA

MAPPED SITES SUMMARY

Target Property Address: 138 LAUREL HILL RD FORT MILL, SC 29707

Click on Map ID to see full detail.

MAP				RELATIVE	DIST (ft. & mi.)
ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	ELEVATION	DIRECTION
1	MR B S MARKET	8083 CHARLOTTE HWY	LUST, UST, RCR, Financial Assurance, GWCI	Higher	987, 0.187, WNW
A2	WARRIOR SHOPPE	7770 HWY 521	GWCI	Lower	2128, 0.403, SSE
A3	WARRIOR SHOPPE	7704 CHARLOTTE HWY	LUST, UST, Financial Assurance	Higher	2212, 0.419, South

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

Lists of Federal NPL (Super	rfund) sites
NPL	_ National Priority List
	Proposed National Priority List Sites
NPL LIENS	Federal Superfund Liens
Lists of Federal Delisted NI	
Delisted NPL	National Priority List Deletions
	ct to CERCLA removals and CERCLA orders
	Federal Facility Site Information listing
SEMS	_ Superfund Enterprise Management System
Lists of Federal CERCLA si	itoo with NEDAD
SEMS-ARCHIVE	Superfund Enterprise Management System Archive
Lists of Fordayal BCDA fooil	lidios um domininos Compositivo Antion
	ities undergoing Corrective Action
CORRACTS	Corrective Action Report
11.4 4.5. 4 4. DODA TOD	
Lists of Federal RCRA TSD	facilities
RCRA-TSDF	RCRA - Treatment, Storage and Disposal
Lists of Federal RCRA gene	erators
	RCRA - Large Quantity Generators
	RCRA - Small Quantity Generators
RCRA-VSQG	RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)
	. Solidiation
Federal institutional contro	ols / engineering controls registries
LUCIS	

US ENG CONTROLS..... Engineering Controls Sites List US INST CONTROLS...... Institutional Controls Sites List Federal ERNS list ERNS..... Emergency Response Notification System Lists of state- and tribal hazardous waste facilities SHWS...... Site Assessment Section Project List Lists of state and tribal landfills and solid waste disposal facilities SWF/LF..... Permitted Landfills List Lists of state and tribal leaking storage tanks INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land Lists of state and tribal registered storage tanks FEMA UST..... Underground Storage Tank Listing State and tribal institutional control / engineering control registries AUL..... Land Use Controls Lists of state and tribal voluntary cleanup sites Voluntary Cleanup Sites INDIAN VCP..... Voluntary Cleanup Priority Listing Lists of state and tribal brownfield sites BROWNFIELDS..... Brownfields Sites Listing ADDITIONAL ENVIRONMENTAL RECORDS Local Brownfield lists US BROWNFIELDS..... A Listing of Brownfields Sites Local Lists of Landfill / Solid Waste Disposal Sites SWRCY...... Solid Waste Recycling Facilities INDIAN ODI...... Report on the Status of Open Dumps on Indian Lands DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations _____ 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

ALLSITES..... Site Assessment & Remediation Public Record Database

CDL..... Clandestine Drug Lab Sites

US CDL...... National Clandestine Laboratory Register

Local Land Records

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

SPILLS...... Spills Database List

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

TRIS...... Toxic Chemical Release Inventory System

SSTS...... Section 7 Tracking Systems

RAATS....... RCRA Administrative Action Tracking System

ICIS Integrated Compliance Information System

Act)/TSCA (Toxic Substances Control Act)

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

PFAS NPL..... Superfund Sites with PFAS Detections Information

PFAS FEDERAL SITES..... Federal Sites PFAS Information

PFAS TSCA...... PFAS Manufacture and Imports Information

PFAS RCRA MANIFEST..... PFAS Transfers Identified In the RCRA Database Listing

PFAS ATSDR______ PFAS Contamination Site Location Listing PFAS WQP_____ Ambient Environmental Sampling for PFAS

PFAS NPDES..... Clean Water Act Discharge Monitoring Information

PFAS ECHO...... Facilities in Industries that May Be Handling PFAS Listing PFAS ECHO FIRE TRAINING Facilities in Industries that May Be Handling PFAS Listing PFAS PART 139 AIRPORT... All Certified Part 139 Airports PFAS Information Listing

AQUEOUS FOAM NRC..... Aqueous Foam Related Incidents Listing

AIRS..... Permitted Airs Facility Listing

ASBESTOS..... ASBESTOS

COAL ASH....... Coal Ash Disposal Sites DRYCLEANERS...... Drycleaner Database

Financial Assurance Financial Assurance Information Listing NPDES. Waste Water Treatment Facilities Listing UIC. Underground Injection Wells Listing MANIFEST. Hazardous Waste Manifest Data MINES MRDS. Mineral Resources Data System

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 HWS	Recovered Government Archive State Hazardous Waste Facilities List
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

Lists of state and tribal leaking storage tanks

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Health & Environmental Control's Leaking UST list.

A review of the LUST list, as provided by EDR, and dated 10/17/2022 has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page	
MR B S MARKET No Action Required: 08/30/2004 Substance: PETRO Facility Id: 09419	8083 CHARLOTTE HWY	WNW 1/8 - 1/4 (0.187 mi.)	1	8	
WARRIOR SHOPPE Substance: PETRO Facility Id: 09441	7704 CHARLOTTE HWY	S 1/4 - 1/2 (0.419 mi.)	A3	12	

Lists of state and tribal registered storage tanks

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Health & Environmental Control's list: Comprehensive Underground Storage Tanks.

A review of the UST list, as provided by EDR, and dated 01/07/2022 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MR B S MARKET Facility Id: 09419 Status: Abandoned	8083 CHARLOTTE HWY	WNW 1/8 - 1/4 (0.187 mi.)	1	8

State and tribal institutional control / engineering control registries

RCR: The Bureau of Land and Waste Management established this Registry to help monitor and maintain sites that have conditional remedies. A Conditional Remedy is an environmental remedy that includes certain qualifications. These qualifications are divided into two major categories: Remedies requiring Land Use Controls and Conditional No Further Actions.

A review of the RCR list, as provided by EDR, and dated 09/01/2022 has revealed that there is 1 RCR site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MR B S MARKET	8083 CHARLOTTE HWY	WNW 1/8 - 1/4 (0.187 mi.)	1	8

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

GWCI: Groundwater Contamination Inventory Cases. Any site that has groundwater contamination over a federal MCL.

A review of the GWCI list, as provided by EDR, and dated 07/01/2008 has revealed that there are 2 GWCI sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page	
MR B S MARKET Solid Waste Permit #: 09419	8083 CHARLOTTE HWY	WNW 1/8 - 1/4 (0.187 mi.)	1	8	
Lower Elevation	Address	Direction / Distance	Map ID	Page	
WARRIOR SHOPPE Solid Waste Permit #: 09441	7770 HWY 521	SSE 1/4 - 1/2 (0.403 mi.)	A2	11	

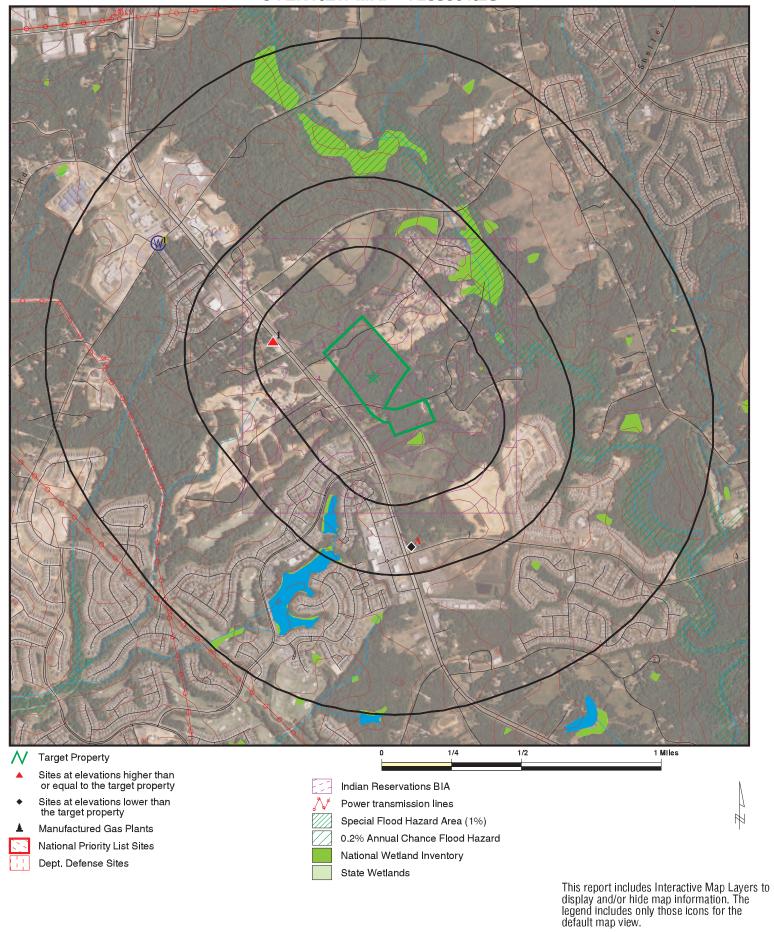
Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name Database(s)

PROMENADE AT CAROLINA RESERVE

SHWS, AUL, VCP, BROWNFIELDS, ALLSITES

OVERVIEW MAP - 7239351.2S



SITE NAME: Harris Corner

138 LAUREL HILL RD FORT MILL SC 29707

34.945346 / 80.838473

ADDRESS:

LAT/LONG:

January 31, 2023 10:10 am

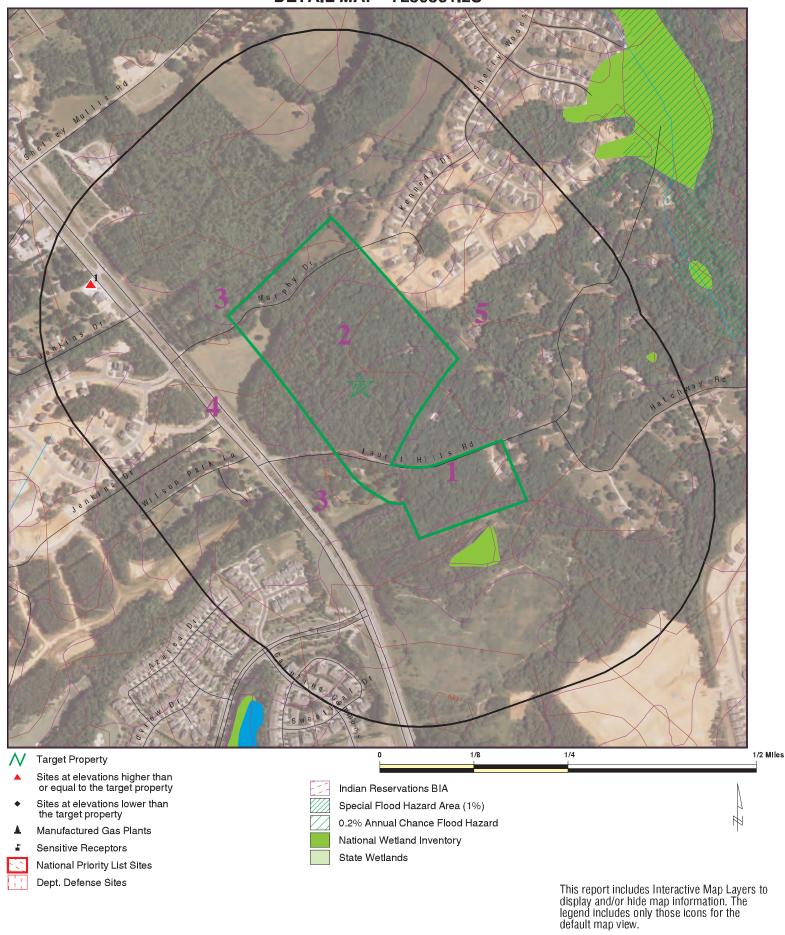
Copyright © 2023 EDR, Inc. © 2015 TomTom Rel. 2015.

CLIENT: Atlas CONTACT: Kenneth Windsand

INQUIRY#: 7239351.2s

DATE:

DETAIL MAP - 7239351.2S



SITE NAME: Harris Corner

138 LAUREL HILL RD FORT MILL SC 29707

34.945346 / 80.838473

ADDRESS:

LAT/LONG:

CLIENT: Atlas
CONTACT: Kenneth Windsand
INQUIRY #: 7239351.2s
DATE: January 31, 2023 10:10 am

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENT	TAL RECORDS							
Lists of Federal NPL (Su	perfund) site	s						
NPL Proposed NPL NPL LIENS	1.000 1.000 1.000		0 0 0	0 0 0	0 0 0	0 0 0	NR NR NR	0 0 0
Lists of Federal Delisted	NPL sites							
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites su CERCLA removals and (rs						
FEDERAL FACILITY SEMS	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Lists of Federal CERCLA	A sites with N	FRAP						
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA fa undergoing Corrective A								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA T	SD facilities							
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA g	enerators							
RCRA-LQG RCRA-SQG RCRA-VSQG	0.250 0.250 0.250		0 0 0	0 0 0	NR NR NR	NR NR NR	NR NR NR	0 0 0
Federal institutional con engineering controls reg								
LUCIS US ENG CONTROLS US INST CONTROLS	0.500 0.500 0.500		0 0 0	0 0 0	0 0 0	NR NR NR	NR NR NR	0 0 0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
Lists of state- and tribal hazardous waste facilities	es							
SHWS	1.000		0	0	0	0	NR	0
Lists of state and tribal l and solid waste disposa								
SWF/LF	0.500		0	0	0	NR	NR	0
Lists of state and tribal l	leaking storag	ge tanks						
LUST	0.500		0	1	1	NR	NR	2

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
Lists of state and tribal	registered sto	orage tanks						
FEMA UST UST AST INDIAN UST	0.250 0.250 0.250 0.250		0 0 0 0	0 1 0 0	NR NR NR NR	NR NR NR NR	NR NR NR NR	0 1 0 0
State and tribal institution control / engineering co		es						
RCR AUL	0.500 0.500		0 0	1 0	0 0	NR NR	NR NR	1 0
Lists of state and tribal	voluntary clea	anup sites						
VCP INDIAN VCP	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
Lists of state and tribal	brownfield si	tes						
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMEN	ITAL RECORD	<u>s</u>						
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / S Waste Disposal Sites	Solid							
SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI DEBRIS REGION 9	0.500 0.500		0 0	0 0	0 0	NR NR	NR NR	0 0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardou Contaminated Sites	s waste /							
US HIST CDL	TP		NR	NR	NR	NR	NR	0
ALLSITES CDL	0.500 TP		0 NR	0 NR	0 NR	NR NR	NR NR	0 0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency	Release Repo	orts						
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
SPILLS 90 SPILLS 80	TP TP		NR NR	NR NR	NR NR	NR NR	NR NR	0 0
Other Ascertainable Red								-
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		Ö	Ö	ŏ	Ö	NR	Ö
SCRD DRYCLEANERS	0.500		Ö	Ö	Ö	NR	NR	Ö
US FIN ASSUR	TP		NR	NR	NR	NR	NR	Ö
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 COAL ASH EPA	TP 0.500		NR 0	NR 0	NR 0	NR NR	NR NR	0 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		Õ	Ö	Ö	Ö	NR	Ö
FUSRAP	1.000		Ö	Ö	Ö	Ö	NR	Ö
UMTRA	0.500		0	0	Ö	NR	NR	Ö
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
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR NB	NR NB	NR NB	0
PFAS ATSDR PFAS WQP	0.250 0.250		0 0	0 0	NR NR	NR NR	NR NR	0 0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAINI			0	0	NR	NR	NR	0
PFAS PART 139 AIRPORT			0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	Ö
ASBESTOS	TP		NR	NR	NR	NR	NR	Ö
COAL ASH	0.500		0	0	0	NR	NR	Ö
DRYCLEANERS	0.250		0	0	NR	NR	NR	0

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted		
Financial Assurance	TP		NR	NR	NR	NR	NR	0		
GWCI	0.500		0	1	1	NR	NR	2		
NPDES	TP		NR	NR	NR	NR	NR	0		
UIC	TP		NR	NR	NR	NR	NR	0		
MANIFEST	0.250		0	0	NR	NR	NR	0		
MINES MRDS	TP		NR	NR	NR	NR	NR	0		
EDR HIGH RISK HISTORIC										
EDR MGP	1.000		0	0	0	0	NR	0		
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 6	Govt. Archives									
RGA HWS	TP		NR	NR	NR	NR	NR	0		
RGA LF	TP		NR	NR	NR	NR	NR	Ō		
RGA LUST	TP		NR	NR	NR	NR	NR	0		
- Totals		0	0	4	2	0	0	6		

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID MAP FINDINGS

Direction Distance

1/8-1/4

Distance Elevation Site EDR ID Number

EDR ID Number

EPA ID Number

1 MR B S MARKET LUST U000484644
WNW 8083 CHARLOTTE HWY UST N/A

8083 CHARLOTTE HWY UST N. FORT MILL, SC RCR

0.187 mi. Financial Assurance 987 ft. GWCI

Relative: LUST:

 Higher
 Name:
 MR B'S MARKET

 Actual:
 Address:
 8083 CHARLOTTE HWY

 638 ft.
 City,State,Zip:
 FORT MILL, SC 29715-9624

Release Number: 1
Facility ID: 09419
Release Status Number: Not reported
Substance: PETRO

Tank Owner Company Name: ESTATE OF GENE D BOLTON

Tank Owner Last Name: Not reported Not reported Tank Owner First name: 08/30/2004 NFA Date: Tank Owner City: Not reported Not reported Confirmed Date: Release Date: 12/17/1998 EID: Not reported Local Facility District: Not reported SCRBCA Class Number: Not reported Release Fin Type Code: Not reported Qualified: Not reported Not reported Release Source: Local Fac Last Name: Not reported Local Fac First Name: Not reported User Name: **BUTLERAP** 12/22/1998 Cleanup Initiated Date: Prefix: Not reported Total Score: 7491

LUST:

Release Date: 12/17/1998
Cleanup Complete Date: Not reported

Depth to Ground Water: 45
Ground Water Flow Direction: E
Release Number: 1

Confirmed date: 12/22/1998

RP Name: ESTATE OF GENE D BOLTON RP Address: 8083 CHARLOTTE HWY

RP City: FORT MILL RP State: SC

RP Zip: 29715-9624 SCRBCA Class Code: CLASS4AA Project Manager: BUTLER, ALEX P

Release Fin Type Code: DS

UST:

Name: MR B S MARKET Address: 8083 CHARLOTTE HWY

 City:
 FORT MILL

 Facility ID:
 09419

 Permit:
 N 09419

Owner: ESTATE OF GENE D BOLTON
Owner Address: 8083 CHARLOTTE HWY

Map ID MAP FINDINGS

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

MR B S MARKET (Continued) Owner City, st, zip:

FORT MILL SC 29715-9624

Owner Phone: 803-547-6241

Tank ID:

Abandoned Status: Capacity: 4000 Product: Gasoline Calcage: 10

Name: MR B S MARKET 8083 CHARLOTTE HWY Address:

City: FORT MILL

Tank ID:

Abandoned Status: Capacity: 4000 Product: Gasoline Calcage: 10

Name: MR B S MARKET 8083 CHARLOTTE HWY Address:

FORT MILL City:

Tank ID: 3

Abandoned Status: Capacity: 4000 Product: Gasoline Calcage: 10

MR B S MARKET Name: Address: 8083 CHARLOTTE HWY

City: FORT MILL

Tank ID:

Status: Abandoned Capacity: 4000 Product: Gasoline Calcage: 10

MR B S MARKET Name: Address: 8083 CHARLOTTE HWY

City: FORT MILL

Tank ID:

Status: **Abandoned** Capacity: 4000 Product: Kerosene Calcage: 10

RCR:

Name: MR B'S MARKET 8083 CHARLOTTE HWY Address: FORT MILL, SC 29715-9624 City,State,Zip:

Not reported Entity Responsibility: Region: Not reported Tax Id: 13.69.04 34.94703 Latitude:

U000484644

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

MR B S MARKET (Continued)

U000484644

Longitude: -80.84433 09419 Tracking Number: Regulatory Program: Not reported Reported: 12/17/98 CU-MCL: 08/10/04 Unit Type: Not reported Unit Number/Letter: Not reported Area/Acres: Not reported Affected Media: Not reported Site/Unit: Not reported Condtions: Not reported

Associated Response/Corrective Action: Not reported Associated Chemicals Requiring: Not reported

SC Financial Assurance 3:

MR B S MARKET Name: Address: 8083 CHARLOTTE HWY City, State, Zip: FORT MILL, SC 29715-9624 Owner Name: ESTATE OF GENE D BOLTON Owner Address: 8083 CHARLOTTE HWY Owner City St Zip:FORT MILL SC 29715-9624

Mechanism: None Date Expired: Not reported

Bill:

SC GWIC:

Bureau: **BLWM** EAP ID: Not reported Solid Waste Permit #: Not reported Bureau of Land & Waste Management File #: Not reported 09419 Permit Number: WPC Permit: Not reported Program: DUST **PETRO** Contamination: Petroleum Products: True Volatile Organic Compounds: False Metals: False Nitrates or Potential to Nitrate: False Pesticides & Herbicides: False Polychlorinated Biphenyls: False Base, Neutral, & Acid Extractables: False Phenols: False Radionuclides Over Max Contaminant Levels: False Sources Not In Other Categories: False Source: UST **Underground Storage Tanks:** True Pits, Ponds, & Lagoons: False Spills & Leaks: False Landfills: False Aboveground Storage Tank: False Spray Irrigation: False Single-Event Spill: False Unpermitted Disposal: False Septic Tank/Tile Field: False Substances Not In Other Categories: False Sources of Contamination Undetermined: False

Map ID MAP FINDINGS

Direction Distance

Elevation Site Database(s) EPA ID Number

MR B S MARKET (Continued) U000484644

Assessment: No
Monitoring: No
Remediation: Yes
Surface Impact: No
Drinking Water Well Impact: No

Remarks: Site ID # 09419. RBCA Classification 4AA9. CNFA.

A2 WARRIOR SHOPPE GWCI U003524736 SSE 7770 HWY 521 N/A

1/4-1/2 FORT MILL, SC 29715

0.403 mi.

2128 ft. Site 1 of 2 in cluster A

Relative: SC GWIC:

LowerBureau:BLWMActual:EAP ID:Not reported615 ft.Solid Waste Permit #:Not reportedBureau of Land & Waste Management File #:Not reportedPermit Number:09441

WPC Permit: Not reported DUST Program: Contamination: **PETRO** Petroleum Products: True Volatile Organic Compounds: False Metals: False Nitrates or Potential to Nitrate: False Pesticides & Herbicides: False Polychlorinated Biphenyls: False Base, Neutral, & Acid Extractables: False

Phenols: False Radionuclides Over Max Contaminant Levels: False Sources Not In Other Categories: False UST Source: Underground Storage Tanks: True Pits, Ponds, & Lagoons: False Spills & Leaks: False Landfills: False Aboveground Storage Tank: False Spray Irrigation: False Single-Event Spill: False Unpermitted Disposal: False Septic Tank/Tile Field: False False Substances Not In Other Categories: Sources of Contamination Undetermined: False

Sources of Contamination Undetermined: False Assessment: Yes Monitoring: No Remediation: No Surface Impact: No Drinking Water Well Impact: No

Remarks: Site ID # 09441. RBCA Classification 2BB1. Conducting

investigation/Risk Assessment.

EDR ID Number

MAP FINDINGS Map ID

Direction Distance

EDR ID Number Elevation Site Database(s) **EPA ID Number**

A3 WARRIOR SHOPPE LUST U004291671 South 7704 CHARLOTTE HWY UST N/A

1/4-1/2 FORT MILL, SC **Financial Assurance**

0.419 mi.

2212 ft. Site 2 of 2 in cluster A

LUST: Relative: Higher Name:

WARRIOR SHOPPE Address: 7704 CHARLOTTE HWY Actual: FORT MILL, SC 29715-9802 City,State,Zip: 619 ft.

Release Number: 09441 Facility ID: Release Status Number: Not reported **PETRO** Substance:

Tank Owner Company Name: THE CRENSHAW COMPANY I

Tank Owner Last Name: Not reported Not reported Tank Owner First name: NFA Date: Not reported Tank Owner City: Not reported Not reported Confirmed Date: Release Date: 05/26/1999 EID: Not reported Local Facility District: Not reported SCRBCA Class Number: Not reported Release Fin Type Code: Not reported Qualified: Not reported Not reported Release Source: Local Fac Last Name: Not reported Local Fac First Name: Not reported User Name: **KINARDXN** 11/29/1999 Cleanup Initiated Date: Prefix: Not reported

Total Score: 356

LUST:

Release Date: 05/26/1999 Not reported Cleanup Complete Date: Depth to Ground Water: 30.85 Ground Water Flow Direction: SE Release Number:

Confirmed date: 11/29/1999

RP Name: CRENSHAW OIL CO INC RP Address: 1248 LYNWOOD DR

RP City: LANCASTER

RP State:

RP Zip: 29720-3925 SCRBCA Class Code: CLASS2BB

Project Manager: SKOWRONEK, JOHN T

Release Fin Type Code: WS

UST:

WARRIOR SHOPPE Name: Address: 7704 CHARLOTTE HWY

FORT MILL City: Facility ID: 09441 Permit: N 09441

Owner: THE CRENSHAW COMPANY INC

Owner Address: 1248 LYNWOOD DR Map ID MAP FINDINGS

Direction Distance

Elevation Site Database(s) EPA ID Number

WARRIOR SHOPPE (Continued)

U004291671

EDR ID Number

Owner City, st, zip: LANCASTER SC 29720-3925

Owner Phone: 803-285-2024

Tank ID:

Status:AbandonedCapacity:4000Product:GasolineCalcage:10

Name: WARRIOR SHOPPE Address: 7704 CHARLOTTE HWY

City: FORT MILL

Tank ID: 2

Status:AbandonedCapacity:4000Product:GasolineCalcage:10

Name: WARRIOR SHOPPE Address: 7704 CHARLOTTE HWY

City: FORT MILL

Tank ID: 3

Status:AbandonedCapacity:4000Product:GasolineCalcage:15

Name: WARRIOR SHOPPE Address: 7704 CHARLOTTE HWY

City: FORT MILL

Tank ID:

Status:AbandonedCapacity:2000Product:Diesel fuelCalcage:15

Name: WARRIOR SHOPPE Address: 7704 CHARLOTTE HWY

City: FORT MILL

Tank ID: 5

Status:AbandonedCapacity:2000Product:KeroseneCalcage:10

SC Financial Assurance 3:

Name: WARRIOR SHOPPE
Address: 7704 CHARLOTTE HWY
City,State,Zip: FORT MILL, SC 29715-9802
Owner Name: THE CRENSHAW COMPANY INC

Owner Address: 1248 LYNWOOD DR Owner City St Zip:LANCASTER SC 29720-3925

Mechanism: None

Map ID Direction MAP FINDINGS Distance EDR ID Number Elevation Site Database(s) **EPA ID Number**

WARRIOR SHOPPE (Continued)

Date Expired: 2/1/2010 0

Bill:

U004291671

Count: 1 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
INDIAN LAND	S120857726	PROMENADE AT CAROLINA RESERVE	7686 CHARLOTTE HWY	29707	SHWS, AUL, VCP, BROWNFIELDS, ALLSITES

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

Lists of Federal NPL (Superfund) sites

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: 10/27/2022 Source: EPA
Date Data Arrived at EDR: 11/01/2022 Telephone: N/A

Date Made Active in Reports: 11/15/2022 Last EDR Contact: 01/03/2023

Number of Days to Update: 14 Next Scheduled EDR Contact: 04/10/2023
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources

EPA's Environmental Photographic Interpretation Center (EPIC)

Telephone: 202-564-7333

EPA Region 1 EPA Region 6

Telephone 617-918-1143 Telephone: 214-655-6659

EPA Region 3 EPA Region 7

Telephone 215-814-5418 Telephone: 913-551-7247

EPA Region 4 EPA Region 8

Telephone 404-562-8033 Telephone: 303-312-6774

EPA Region 5 EPA Region 9

Telephone 312-886-6686 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: 10/27/2022 Source: EPA
Date Data Arrived at EDR: 11/01/2022 Telephone: N/A

Number of Days to Update: 14 Next Scheduled EDR Contact: 04/10/2023
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

Lists of Federal Delisted NPL sites

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: 10/27/2022
Date Data Arrived at EDR: 11/01/2022
Date Made Active in Penerte: 11/15/2022

Date Made Active in Reports: 11/15/2022

Number of Days to Update: 14

Source: EPA Telephone: N/A

Last EDR Contact: 01/03/2023

Next Scheduled EDR Contact: 04/10/2023 Data Release Frequency: Quarterly

Lists of Federal sites subject to CERCLA removals and CERCLA orders

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: 08/25/2022 Date Data Arrived at EDR: 09/06/2022 Date Made Active in Reports: 12/05/2022

Number of Days to Update: 90

Source: Environmental Protection Agency

Telephone: 703-603-8704 Last EDR Contact: 12/21/2022

Next Scheduled EDR Contact: 04/10/2023 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: 10/27/2022 Date Data Arrived at EDR: 11/01/2022 Date Made Active in Reports: 11/15/2022

Number of Days to Update: 14

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 01/03/2023

Next Scheduled EDR Contact: 04/24/2023
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

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: 10/27/2022 Date Data Arrived at EDR: 11/01/2022 Date Made Active in Reports: 11/15/2022

Number of Days to Update: 14

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 01/03/2023

Next Scheduled EDR Contact: 04/24/2023 Data Release Frequency: Quarterly

Lists of Federal RCRA facilities undergoing Corrective Action

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 11/21/2022 Date Data Arrived at EDR: 11/21/2022 Date Made Active in Reports: 12/05/2022

Number of Days to Update: 14

Source: EPA

Telephone: 800-424-9346 Last EDR Contact: 12/21/2022

Next Scheduled EDR Contact: 04/03/2023 Data Release Frequency: Quarterly

Lists of Federal RCRA TSD facilities

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: 11/21/2022 Date Data Arrived at EDR: 11/21/2022 Date Made Active in Reports: 12/05/2022

Number of Days to Update: 14

Source: Environmental Protection Agency

Telephone: (404) 562-8651 Last EDR Contact: 12/21/2022

Next Scheduled EDR Contact: 04/03/2023
Data Release Frequency: Quarterly

Lists of Federal RCRA generators

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: 11/21/2022 Date Data Arrived at EDR: 11/21/2022 Date Made Active in Reports: 12/05/2022

Number of Days to Update: 14

Source: Environmental Protection Agency

Telephone: (404) 562-8651 Last EDR Contact: 12/21/2022

Next Scheduled EDR Contact: 04/03/2023 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: 11/21/2022 Date Data Arrived at EDR: 11/21/2022 Date Made Active in Reports: 12/05/2022

Number of Days to Update: 14

Source: Environmental Protection Agency

Telephone: (404) 562-8651 Last EDR Contact: 12/21/2022

Next Scheduled EDR Contact: 04/03/2023 Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly 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). Very small quantity generators (VSQGs) generate
less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/21/2022 Date Data Arrived at EDR: 11/21/2022 Date Made Active in Reports: 12/05/2022

Number of Days to Update: 14

Source: Environmental Protection Agency

Telephone: (404) 562-8651 Last EDR Contact: 12/21/2022

Next Scheduled EDR Contact: 04/03/2023 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: 11/02/2022 Date Data Arrived at EDR: 11/08/2022 Date Made Active in Reports: 01/10/2023

Number of Days to Update: 63

Source: Department of the Navy Telephone: 843-820-7326 Last EDR Contact: 11/01/2022

Next Scheduled EDR Contact: 02/20/2023 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: 08/15/2022 Date Data Arrived at EDR: 08/17/2022 Date Made Active in Reports: 10/24/2022

Number of Days to Update: 68

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 11/16/2022

Next Scheduled EDR Contact: 03/06/2023 Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

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: 08/15/2022 Date Data Arrived at EDR: 08/17/2022 Date Made Active in Reports: 10/24/2022

Number of Days to Update: 68

Source: Environmental Protection Agency

Telephone: 703-603-0695 Last EDR Contact: 11/16/2022

Next Scheduled EDR Contact: 03/06/2023

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: 12/12/2022 Date Data Arrived at EDR: 12/14/2022 Date Made Active in Reports: 12/19/2022

Number of Days to Update: 5

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180 Last EDR Contact: 12/14/2022

Next Scheduled EDR Contact: 04/03/2023 Data Release Frequency: Quarterly

Lists of state- and tribal hazardous waste facilities

SHWS: Site Assessment Section Project List

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 09/13/2022 Date Data Arrived at EDR: 09/29/2022 Date Made Active in Reports: 12/13/2022

Number of Days to Update: 75

Source: Department of Health and Environmental Control

Telephone: 803-898-0835 Last EDR Contact: 12/01/2022

Next Scheduled EDR Contact: 03/20/2023 Data Release Frequency: Semi-Annually

Lists of state and tribal landfills and solid waste disposal facilities

SWF/LF: Permitted Landfills List

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: 08/26/2022 Date Data Arrived at EDR: 09/07/2022 Date Made Active in Reports: 11/22/2022

Number of Days to Update: 76

Source: Department of Health and Environmental Control

Telephone: 803-734-5165

Source: Department of Health and Environmental Control, GIS Section

Telephone: 803-896-4084 Last EDR Contact: 12/01/2022

Next Scheduled EDR Contact: 03/20/2023 Data Release Frequency: Semi-Annually

Lists of state and tribal leaking storage tanks

LUST: Leaking Underground Storage Tank List

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 10/17/2022 Date Data Arrived at EDR: 10/18/2022 Date Made Active in Reports: 01/09/2023

Number of Days to Update: 83

Source: Department of Health and Environmental Control

Telephone: 803-898-4350 Last EDR Contact: 01/17/2023

Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Quarterly

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: 04/20/2022 Date Data Arrived at EDR: 06/13/2022 Date Made Active in Reports: 08/16/2022

Number of Days to Update: 64

Source: EPA Region 8 Telephone: 303-312-6271 Last EDR Contact: 01/17/2023

Next Scheduled EDR Contact: 05/01/2023

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: 04/28/2021 Date Data Arrived at EDR: 06/11/2021 Date Made Active in Reports: 09/07/2021

Number of Days to Update: 88

Source: EPA Region 1 Telephone: 617-918-1313 Last EDR Contact: 01/17/2023

Next Scheduled EDR Contact: 05/01/2023 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: 06/02/2022 Date Data Arrived at EDR: 06/13/2022 Date Made Active in Reports: 08/31/2022

Number of Days to Update: 79

Source: EPA Region 4 Telephone: 404-562-8677 Last EDR Contact: 01/17/2023

Next Scheduled EDR Contact: 05/01/2023 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: 04/14/2022 Date Data Arrived at EDR: 06/13/2022 Date Made Active in Reports: 08/16/2022

Number of Days to Update: 64

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 01/17/2023

Next Scheduled EDR Contact: 05/01/2023 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: 04/20/2022 Date Data Arrived at EDR: 06/13/2022 Date Made Active in Reports: 08/16/2022

Number of Days to Update: 64

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 01/17/2023

Next Scheduled EDR Contact: 05/01/2023 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: 04/28/2022 Date Data Arrived at EDR: 06/13/2022 Date Made Active in Reports: 08/16/2022

Number of Days to Update: 64

Source: EPA Region 6 Telephone: 214-665-6597 Last EDR Contact: 01/17/2023

Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies

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: 04/11/2022 Date Data Arrived at EDR: 06/13/2022 Date Made Active in Reports: 08/16/2022

Number of Days to Update: 64

Source: EPA, Region 5 Telephone: 312-886-7439 Last EDR Contact: 01/17/2023

Next Scheduled EDR Contact: 05/01/2023 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: 04/08/2022 Date Data Arrived at EDR: 06/13/2022 Date Made Active in Reports: 08/16/2022

Number of Days to Update: 64

Source: Environmental Protection Agency Telephone: 415-972-3372

Last EDR Contact: 01/17/2023

Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies

Lists of state and tribal registered storage tanks

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/14/2021 Date Data Arrived at EDR: 11/05/2021 Date Made Active in Reports: 02/01/2022

Number of Days to Update: 88

Source: FEMA

Telephone: 202-646-5797 Last EDR Contact: 12/28/2022

Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Varies

UST: Comprehensive Underground Storage Tanks

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: 01/07/2022 Date Data Arrived at EDR: 01/07/2022 Date Made Active in Reports: 03/23/2022

Number of Days to Update: 75

Source: Department of Health and Environmental Control

Telephone: 803-896-7957 Last EDR Contact: 12/29/2022

Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Quarterly

AST: Aboveground Storage Tank List

Registered Aboveground Storage Tanks.

Date of Government Version: 03/25/2004 Date Data Arrived at EDR: 08/04/2004 Date Made Active in Reports: 09/23/2004

Number of Days to Update: 50

Source: Department of Health and Environmental Control

Telephone: 803-898-4350 Last EDR Contact: 11/15/2022

Next Scheduled EDR Contact: 03/06/2023

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: 06/02/2022 Date Data Arrived at EDR: 06/13/2022 Date Made Active in Reports: 08/31/2022

Number of Days to Update: 79

Source: EPA Region 4 Telephone: 404-562-9424 Last EDR Contact: 01/17/2023

Next Scheduled EDR Contact: 05/01/2023 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: 04/20/2022 Date Data Arrived at EDR: 06/13/2022 Date Made Active in Reports: 08/16/2022

Number of Days to Update: 64

Source: EPA Region 8 Telephone: 303-312-6137 Last EDR Contact: 01/17/2023

Next Scheduled EDR Contact: 05/01/2023 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: 04/14/2022 Date Data Arrived at EDR: 06/13/2022 Date Made Active in Reports: 08/16/2022

Number of Days to Update: 64

Source: EPA Region 7 Telephone: 913-551-7003 Last EDR Contact: 01/17/2023

Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies

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: 04/20/2022 Date Data Arrived at EDR: 06/13/2022 Date Made Active in Reports: 08/16/2022

Number of Days to Update: 64

Source: EPA Region 10 Telephone: 206-553-2857 Last EDR Contact: 01/17/2023

Next Scheduled EDR Contact: 05/01/2023 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: 04/07/2022 Date Data Arrived at EDR: 06/13/2022 Date Made Active in Reports: 08/16/2022

Number of Days to Update: 64

Source: EPA, Region 1 Telephone: 617-918-1313 Last EDR Contact: 01/17/2023

Next Scheduled EDR Contact: 05/01/2023 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: 04/11/2022 Date Data Arrived at EDR: 06/13/2022 Date Made Active in Reports: 08/16/2022

Number of Days to Update: 64

Source: EPA Region 5 Telephone: 312-886-6136 Last EDR Contact: 01/17/2023

Next Scheduled EDR Contact: 05/01/2023 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: 04/28/2022 Date Data Arrived at EDR: 06/13/2022 Date Made Active in Reports: 08/16/2022

Number of Days to Update: 64

Source: EPA Region 6 Telephone: 214-665-7591 Last EDR Contact: 01/17/2023

Next Scheduled EDR Contact: 05/01/2023

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: 04/08/2022 Date Data Arrived at EDR: 06/13/2022 Date Made Active in Reports: 08/16/2022

Number of Days to Update: 64

Source: EPA Region 9 Telephone: 415-972-3368 Last EDR Contact: 01/17/2023

Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

RCR: Registry of Conditional Remedies

The Bureau of Land and Waste Management established this Registry to help monitor and maintain sites that have conditional remedies. A Conditional Remedy is an environmental remedy that includes certain qualifications. These qualifications are divided into two major categories: Remedies requiring Land Use Controls and Conditional No Further Actions.

Date of Government Version: 09/01/2022 Date Data Arrived at EDR: 09/07/2022 Date Made Active in Reports: 11/23/2022

Number of Days to Update: 77

Source: Department of Health & Environmental Control

Telephone: 803-896-4000 Last EDR Contact: 12/01/2022

Next Scheduled EDR Contact: 03/20/2023 Data Release Frequency: Varies

AUL: Land Use Controls

The term Land Use Controls or "LUCs" encompass institutional controls, such as those involved in real estate interests, governmental permitting, zoning, public advisories, deed notices, and other legal restrictions. The term also includes restrictions on access, whether achieved by means of engineered barriers (e.g., fence or concrete pad) or by human means (e.g., the presence of security guards). Additionally, the term includes both affirmative measures to achieve the desired restrictions (e.g., night lighting of an area) and prohibitive directives (e.g., restrictions on certain types of wells for the duration of the corrective action). Considered altogether, the LUCs for a facility will provide a tool for how the property should be used in order to maintain the level of protectiveness that one or more corrective actions were designed to achieve.

Date of Government Version: 09/06/2022 Date Data Arrived at EDR: 09/06/2022 Date Made Active in Reports: 11/22/2022

Number of Days to Update: 77

Source: Department of Health & Environmental Control

Telephone: 803-896-4049 Last EDR Contact: 12/05/2022

Next Scheduled EDR Contact: 03/20/2023 Data Release Frequency: Varies

Lists of state and tribal voluntary cleanup sites

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: 07/08/2021

Next Scheduled EDR Contact: 07/20/2009 Data Release Frequency: Varies

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: 12/13/2022

Next Scheduled EDR Contact: 04/03/2023 Data Release Frequency: Varies

VCP: Voluntary Cleanup Sites

Sites participating in the Voluntary Cleanup Program. Once staff and a non-responsible party have agreed upon an approved scope of work for a site investigation and/or remediation, the party enters into a voluntary cleanup contract. Staff oversees the cleanup efforts to ensure that activities are performed to our satisfaction. Upon completion of the negotiated work in the voluntary cleanup contract, the non-responsible party receives State Superfund liability protection.

Date of Government Version: 10/17/2022
Date Data Arrived at EDR: 10/19/2022
Date Made Active in Reports: 01/06/2023
Number of Days to Lindate: 70

Number of Days to Update: 79

Source: Department of Health and Environmental Control

Telephone: 803-896-4049 Last EDR Contact: 01/09/2023

Next Scheduled EDR Contact: 04/24/2023 Data Release Frequency: Varies

Lists of state and tribal brownfield sites

BROWNFIELDS: Brownfields Sites Listing

The Brownfields component of the Voluntary Cleanup Program allows a non-responsible party to acquire a contaminated property with State Superfund liability protection for existing contamination by agreeing to perform an environmental assessment and/or remediation.

Date of Government Version: 10/17/2022 Date Data Arrived at EDR: 10/19/2022 Date Made Active in Reports: 01/06/2023

Number of Days to Update: 79

Source: Department of Health & Environmental Control

Telephone: 803-896-4069 Last EDR Contact: 01/09/2023

Next Scheduled EDR Contact: 04/24/2023
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: 02/23/2022 Date Data Arrived at EDR: 03/10/2022 Date Made Active in Reports: 03/10/2022

Number of Days to Update: 0

Source: Environmental Protection Agency

Telephone: 202-566-2777 Last EDR Contact: 12/07/2022

Next Scheduled EDR Contact: 03/27/2023 Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

SWRCY: Solid Waste Recycling Facilities A listing of recycling center locations.

> Date of Government Version: 06/30/2019 Date Data Arrived at EDR: 03/13/2020 Date Made Active in Reports: 05/22/2020 Number of Days to Update: 70

Source: Department of Health & Environmental Control Telephone: 803-896-8985

Telephone: 803-896-8985 Last EDR Contact: 12/05/2022

Next Scheduled EDR Contact: 03/20/2023 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: 01/20/2023

Next Scheduled EDR Contact: 05/08/2023 Data Release Frequency: Varies

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

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: 01/13/2023

Next Scheduled EDR Contact: 05/01/2023 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: 01/27/2023

Next Scheduled EDR Contact: 05/08/2023 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: 07/29/2022 Date Data Arrived at EDR: 08/18/2022 Date Made Active in Reports: 10/24/2022

Number of Days to Update: 67

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 11/16/2022

Next Scheduled EDR Contact: 03/06/2023 Data Release Frequency: No Update Planned

ALLSITES: Site Assessment & Remediation Public Record Database

The South Carolina Department of Health and Environmental Control is pleased to have the Public Record for your review. The purpose of this database is two-fold. First, it will provide to communities another form of notice of cleanup activity, allowing them to have more information about assessment and cleanup activities in their area and in the State. Second, it can assist those seeking to redevelop brownfield properties within South Carolina.

Date of Government Version: 09/06/2022 Date Data Arrived at EDR: 09/06/2022 Date Made Active in Reports: 11/22/2022

Number of Days to Update: 77

Source: Department of Health & Environmental Control

Telephone: 803-896-4000 Last EDR Contact: 12/05/2022

Next Scheduled EDR Contact: 03/20/2023 Data Release Frequency: Quarterly

CDL 2: Clandestine Drug Lab Listing

A listing of clandestine drug lab site locations.

Date of Government Version: 08/26/2022 Date Data Arrived at EDR: 08/29/2022 Date Made Active in Reports: 09/22/2022

Number of Days to Update: 24

Source: South Carolina Law Enforcement Division

Telephone: 803-896-7136 Last EDR Contact: 11/16/2022

Next Scheduled EDR Contact: 03/06/2023 Data Release Frequency: Varies

CDL: Clandestine Drug Lab Sites

A listing of clandestine drug lab site locations.

Date of Government Version: 01/24/2012 Date Data Arrived at EDR: 01/26/2012 Date Made Active in Reports: 02/24/2012

Number of Days to Update: 29

Source: Department of Health & Environmental Control

Telephone: 803-896-4288 Last EDR Contact: 11/22/2022

Next Scheduled EDR Contact: 03/13/2023

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: 07/29/2022 Date Data Arrived at EDR: 08/18/2022 Date Made Active in Reports: 10/24/2022

Number of Days to Update: 67

Source: Drug Enforcement Administration

Telephone: 202-307-1000 Last EDR Contact: 11/16/2022

Next Scheduled EDR Contact: 03/06/2023 Data Release Frequency: Quarterly

Local Land Records

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: 10/27/2022 Date Data Arrived at EDR: 11/01/2022 Date Made Active in Reports: 11/15/2022

Number of Days to Update: 14

Source: Environmental Protection Agency

Telephone: 202-564-6023 Last EDR Contact: 01/03/2023

Next Scheduled EDR Contact: 04/10/2023 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: 09/19/2022 Date Data Arrived at EDR: 09/19/2022 Date Made Active in Reports: 09/30/2022

Number of Days to Update: 11

Source: U.S. Department of Transportation

Telephone: 202-366-4555 Last EDR Contact: 12/14/2022

Next Scheduled EDR Contact: 04/03/2023 Data Release Frequency: Quarterly

SPILLS: Spill List

Spills and releases of petroleum and hazardous chemicals reported to the Oil & Chemical Emergency Response division.

Date of Government Version: 08/23/2022 Date Data Arrived at EDR: 08/24/2022 Date Made Active in Reports: 11/14/2022

Number of Days to Update: 82

Source: Department of Health and Environmental Control

Telephone: 803-898-4111 Last EDR Contact: 11/16/2022

Next Scheduled EDR Contact: 03/06/2023 Data Release Frequency: Semi-Annually

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 10/25/2012 Date Data Arrived at EDR: 01/03/2013 Date Made Active in Reports: 03/07/2013

Number of Days to Update: 63

Source: FirstSearch Telephone: N/A

Last EDR Contact: 01/03/2013 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

SPILLS 80: SPILLS80 data from FirstSearch

Spills 80 includes those spill and release records available from FirstSearch databases prior to 1990. Typically, they may include chemical, oil and/or hazardous substance spills recorded before 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 80.

Date of Government Version: 03/26/2001 Date Data Arrived at EDR: 01/03/2013 Date Made Active in Reports: 03/07/2013

Number of Days to Update: 63

Source: FirstSearch Telephone: N/A

Last EDR Contact: 01/03/2013 Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

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: 11/21/2022 Date Data Arrived at EDR: 11/21/2022 Date Made Active in Reports: 12/05/2022

Number of Days to Update: 14

Source: Environmental Protection Agency

Telephone: (404) 562-8651 Last EDR Contact: 12/21/2022

Next Scheduled EDR Contact: 04/03/2023 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: 08/11/2022 Date Data Arrived at EDR: 08/11/2022 Date Made Active in Reports: 09/30/2022

Number of Days to Update: 50

Source: U.S. Army Corps of Engineers

Telephone: 202-528-4285 Last EDR Contact: 11/10/2022

Next Scheduled EDR Contact: 02/27/2023

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: 06/07/2021 Date Data Arrived at EDR: 07/13/2021 Date Made Active in Reports: 03/09/2022

Number of Days to Update: 239

Source: USGS

Telephone: 888-275-8747 Last EDR Contact: 01/13/2023

Next Scheduled EDR Contact: 04/24/2023

Data Release Frequency: Varies

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: 04/02/2018 Date Data Arrived at EDR: 04/11/2018 Date Made Active in Reports: 11/06/2019

Number of Days to Update: 574

Source: U.S. Geological Survey Telephone: 888-275-8747 Last EDR Contact: 01/03/2023

Next Scheduled EDR Contact: 04/17/2023

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: 11/03/2022

Next Scheduled EDR Contact: 02/20/2023

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: 09/19/2022 Date Data Arrived at EDR: 09/20/2022 Date Made Active in Reports: 12/22/2022

Number of Days to Update: 93

Source: Environmental Protection Agency

Telephone: 202-566-1917 Last EDR Contact: 12/14/2022

Next Scheduled EDR Contact: 04/03/2023 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: 01/30/2023

Next Scheduled EDR Contact: 05/15/2023 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: 10/28/2022

Next Scheduled EDR Contact: 02/16/2023

Data Release Frequency: Varies

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: 06/17/2020 Date Made Active in Reports: 09/10/2020

Number of Days to Update: 85

Source: EPA

Telephone: 202-260-5521 Last EDR Contact: 12/12/2022

Next Scheduled EDR Contact: 03/27/2023 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: 12/31/2018 Date Data Arrived at EDR: 08/14/2020 Date Made Active in Reports: 11/04/2020

Number of Days to Update: 82

Source: EPA

Telephone: 202-566-0250 Last EDR Contact: 11/01/2022

Next Scheduled EDR Contact: 02/27/2023 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: 10/17/2022 Date Data Arrived at EDR: 10/18/2022 Date Made Active in Reports: 01/10/2023

Number of Days to Update: 84

Source: EPA

Telephone: 202-564-4203 Last EDR Contact: 01/18/2023

Next Scheduled EDR Contact: 05/01/2023 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: 10/27/2022 Date Data Arrived at EDR: 11/01/2022 Date Made Active in Reports: 11/15/2022

Number of Days to Update: 14

Source: EPA

Telephone: 703-416-0223 Last EDR Contact: 01/03/2023

Next Scheduled EDR Contact: 03/13/2023 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: 04/27/2022 Date Data Arrived at EDR: 05/04/2022 Date Made Active in Reports: 05/10/2022

Number of Days to Update: 6

Source: Environmental Protection Agency

Telephone: 202-564-8600 Last EDR Contact: 01/17/2023

Next Scheduled EDR Contact: 05/01/2023 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: 10/27/2022 Date Data Arrived at EDR: 11/01/2022 Date Made Active in Reports: 11/15/2022

Number of Days to Update: 14

Source: EPA

Telephone: 202-564-6023 Last EDR Contact: 01/03/2023

Next Scheduled EDR Contact: 02/16/2023 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: 01/20/2022 Date Data Arrived at EDR: 01/20/2022 Date Made Active in Reports: 03/25/2022

Number of Days to Update: 64

Source: EPA

Telephone: 202-566-0500 Last EDR Contact: 01/04/2023

Next Scheduled EDR Contact: 04/17/2023 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: 12/28/2022

Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Quarterly

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.

Data of Consequence Name in a 04/00

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: No Update Planned

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: No Update Planned

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: 10/26/2022 Date Data Arrived at EDR: 11/22/2022 Date Made Active in Reports: 12/05/2022

Number of Days to Update: 13

Source: Nuclear Regulatory Commission

Telephone: 301-415-7169 Last EDR Contact: 01/17/2023

Next Scheduled EDR Contact: 05/01/2023 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: 12/31/2020 Date Data Arrived at EDR: 11/30/2021 Date Made Active in Reports: 02/22/2022

Number of Days to Update: 84

Source: Department of Energy Telephone: 202-586-8719 Last EDR Contact: 11/29/2022

Next Scheduled EDR Contact: 03/13/2023 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: 01/12/2017 Date Data Arrived at EDR: 03/05/2019 Date Made Active in Reports: 11/11/2019

Number of Days to Update: 251

Source: Environmental Protection Agency

Telephone: N/A

Last EDR Contact: 11/23/2022

Next Scheduled EDR Contact: 03/13/2023 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: 09/13/2019 Date Data Arrived at EDR: 11/06/2019 Date Made Active in Reports: 02/10/2020

Number of Days to Update: 96

Source: Environmental Protection Agency

Telephone: 202-566-0517 Last EDR Contact: 11/03/2022

Next Scheduled EDR Contact: 02/13/2023

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: 07/01/2019 Date Data Arrived at EDR: 07/01/2019 Date Made Active in Reports: 09/23/2019

Number of Days to Update: 84

Source: Environmental Protection Agency

Telephone: 202-343-9775 Last EDR Contact: 12/20/2022

Next Scheduled EDR Contact: 04/10/2023 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: 01/02/2020 Date Data Arrived at EDR: 01/28/2020 Date Made Active in Reports: 04/17/2020

Number of Days to Update: 80

Source: Department of Transporation, Office of Pipeline Safety

Source: Department of Justice, Consent Decree Library

Telephone: 202-366-4595 Last EDR Contact: 01/24/2023

Next Scheduled EDR Contact: 05/08/2023 Data Release Frequency: Quarterly

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: 09/30/2022 Date Data Arrived at EDR: 10/21/2022 Date Made Active in Reports: 01/10/2023

Number of Days to Update: 81

Telephone: Varies
Last EDR Contact: 01/03/2023

Next Scheduled EDR Contact: 04/17/2023

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: 12/31/2019 Date Data Arrived at EDR: 03/02/2022 Date Made Active in Reports: 03/25/2022

Number of Days to Update: 23

Source: EPA/NTIS Telephone: 800-424-9346 Last EDR Contact: 12/21/2022

Next Scheduled EDR Contact: 04/03/2023 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: 01/06/2023

Next Scheduled EDR Contact: 04/17/2023 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: 07/26/2021 Date Data Arrived at EDR: 07/27/2021 Date Made Active in Reports: 10/22/2021

Number of Days to Update: 87

Source: Department of Energy Telephone: 202-586-3559 Last EDR Contact: 01/30/2023

Next Scheduled EDR Contact: 05/15/2023

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: 08/30/2019 Date Data Arrived at EDR: 11/15/2019 Date Made Active in Reports: 01/28/2020

Number of Days to Update: 74

Source: Department of Energy Telephone: 505-845-0011 Last EDR Contact: 11/09/2022

Next Scheduled EDR Contact: 02/27/2023

Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 10/27/2022 Date Data Arrived at EDR: 11/01/2022 Date Made Active in Reports: 11/15/2022

Number of Days to Update: 14

Source: Environmental Protection Agency

Telephone: 703-603-8787 Last EDR Contact: 01/03/2023

Next Scheduled EDR Contact: 04/10/2023 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

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 11/29/2022 Date Data Arrived at EDR: 11/30/2022 Date Made Active in Reports: 12/22/2022

Number of Days to Update: 22

Source: DOL, Mine Safety & Health Admi

Telephone: 202-693-9424 Last EDR Contact: 01/03/2023

Next Scheduled EDR Contact: 03/13/2023 Data Release Frequency: Quarterly

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: 08/03/2022 Date Data Arrived at EDR: 08/17/2022 Date Made Active in Reports: 08/31/2022

Number of Days to Update: 14

Source: Department of Labor, Mine Safety and Health Administration

Telephone: 303-231-5959 Last EDR Contact: 11/17/2022

Next Scheduled EDR Contact: 03/06/2023 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: 05/06/2020 Date Data Arrived at EDR: 05/27/2020 Date Made Active in Reports: 08/13/2020

Number of Days to Update: 78

Source: USGS

Telephone: 703-648-7709 Last EDR Contact: 11/21/2022

Next Scheduled EDR Contact: 03/06/2023 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: 11/21/2022

Next Scheduled EDR Contact: 03/06/2023

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: 09/13/2022 Date Data Arrived at EDR: 09/14/2022 Date Made Active in Reports: 12/05/2022

Number of Days to Update: 82

Source: Department of Interior Telephone: 202-208-2609 Last EDR Contact: 12/13/2022

Next Scheduled EDR Contact: 03/20/2023 Data Release Frequency: Quarterly

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: 08/03/2022 Date Data Arrived at EDR: 08/25/2022 Date Made Active in Reports: 10/24/2022

Number of Days to Update: 60

Source: EPA

Telephone: (404) 562-9900 Last EDR Contact: 11/29/2022

Next Scheduled EDR Contact: 03/13/2023 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: 05/06/2021 Date Data Arrived at EDR: 05/21/2021 Date Made Active in Reports: 08/11/2021

Number of Days to Update: 82

Source: Environmental Protection Agency

Telephone: 202-564-0527 Last EDR Contact: 11/15/2022

Next Scheduled EDR Contact: 03/06/2023 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: 09/25/2022 Date Data Arrived at EDR: 09/30/2022 Date Made Active in Reports: 12/22/2022

Number of Days to Update: 83

Source: Environmental Protection Agency

Telephone: 202-564-2280 Last EDR Contact: 01/04/2023

Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 11/09/2021 Date Data Arrived at EDR: 10/20/2022 Date Made Active in Reports: 01/10/2023

Number of Days to Update: 82

Source: Department of Defense Telephone: 703-704-1564 Last EDR Contact: 01/09/2023

Next Scheduled EDR Contact: 04/24/2023 Data Release Frequency: Varies

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: 08/11/2022 Date Data Arrived at EDR: 08/11/2022 Date Made Active in Reports: 09/30/2022

Number of Days to Update: 50

Source: EPA

Telephone: 800-385-6164 Last EDR Contact: 11/10/2022

Next Scheduled EDR Contact: 02/27/2023 Data Release Frequency: Quarterly

PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 02/23/2022 Date Data Arrived at EDR: 07/08/2022 Date Made Active in Reports: 11/08/2022

Number of Days to Update: 123

Source: Environmental Protection Agency

Telephone: 703-603-8895 Last EDR Contact: 01/10/2023

Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Varies

PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 02/23/2022 Date Data Arrived at EDR: 03/31/2022 Date Made Active in Reports: 11/08/2022

Number of Days to Update: 222

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 01/05/2023

Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Varies

PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 01/03/2022 Date Data Arrived at EDR: 03/31/2022 Date Made Active in Reports: 11/08/2022

Number of Days to Update: 222

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 01/05/2023

Next Scheduled EDR Contact: 04/17/2023

Data Release Frequency: Varies

PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST HANDLING INSTR), Non-hazardous waste description (NON HAZ WASTE DESCRIPTION), DOT printed information (DOT_PRINTED_INFORMATION), Waste line handling instructions (WASTE_LINE_HANDLING_INSTR), Waste residue comments (WASTE_RESIDUE_COMMENTS).

Date of Government Version: 01/03/2022 Date Data Arrived at EDR: 03/31/2022 Date Made Active in Reports: 11/08/2022

Number of Days to Update: 222

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 01/05/2023

Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Varies

PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020 Date Data Arrived at EDR: 03/17/2021 Date Made Active in Reports: 11/08/2022

Number of Days to Update: 601

Source: Department of Health & Human Services

Telephone: 202-741-5770 Last EDR Contact: 01/23/2023

Next Scheduled EDR Contact: 05/08/2023 Data Release Frequency: Varies

PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 01/03/2022 Date Data Arrived at EDR: 03/31/2022 Date Made Active in Reports: 11/08/2022

Number of Days to Update: 222

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 01/05/2023

Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Varies

PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits.

Date of Government Version: 01/03/2022 Date Data Arrived at EDR: 03/31/2022 Date Made Active in Reports: 11/08/2022

Number of Days to Update: 222

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 01/05/2023

Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Varies

PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 01/03/2022 Date Data Arrived at EDR: 03/31/2022 Date Made Active in Reports: 11/08/2022

Number of Days to Update: 222

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 01/05/2023

Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Varies

PFAS ECHO FIRE TRAINING: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facilitys name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 08/22/2018
Date Data Arrived at EDR: 03/31/2022
Date Made Active in Reports: 11/08/2022

Number of Days to Update: 222

Source: Environmental Protection Agency Telephone: 202-272-0167 Last EDR Contact: 01/05/2023

Next Scheduled EDR Contact: 04/17/2023

Data Release Frequency: Varies

PFAS PART 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration?s document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

Date of Government Version: 08/22/2018 Date Data Arrived at EDR: 10/26/2022 Date Made Active in Reports: 11/08/2022

Number of Days to Update: 13

Source: Environmental Protection Agency

Telephone: 202-272-0167 Last EDR Contact: 01/05/2023

Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Varies

AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 02/23/2022 Date Data Arrived at EDR: 03/31/2022 Date Made Active in Reports: 11/08/2022

Number of Days to Update: 222

Source: Environmental Protection Agency Telephone: 202-272-0167

Last EDR Contact: 01/05/2023

Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Varies

AIRS: Permitted Airs Facility Listing
A listing of permitted airs facilities.

Date of Government Version: 08/22/2022 Date Data Arrived at EDR: 08/22/2022 Date Made Active in Reports: 11/14/2022

Number of Days to Update: 84

Source: Department of Health & Environmental Control

Telephone: 803-898-4279 Last EDR Contact: 11/17/2022

Next Scheduled EDR Contact: 03/06/2023 Data Release Frequency: Varies

ASBESTOS: Asbestos Notification Listing
Asbestos abatement & demolition project list

Date of Government Version: 10/17/2022 Date Data Arrived at EDR: 10/18/2022 Date Made Active in Reports: 11/03/2022

Number of Days to Update: 16

Source: Department of Health & Environmental Control

Telephone: 803-898-3882 Last EDR Contact: 01/17/2023

Next Scheduled EDR Contact: 05/01/2023

Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites
A listing of sites with coal ash ponds.

Date of Government Version: 03/20/2018 Date Data Arrived at EDR: 03/22/2018 Date Made Active in Reports: 04/25/2018

Number of Days to Update: 34

Source: Department of Health & Environmental Control

Telephone: 803-898-3964 Last EDR Contact: 12/07/2022

Next Scheduled EDR Contact: 03/27/2023 Data Release Frequency: Varies

DRYCLEANERS: Drycleaner Database

The Drycleaning Facility Restoration Trust Fund database is used to access, prioritze and cleanup contaminated registered drycleaning sites.

Date of Government Version: 01/01/2022 Date Data Arrived at EDR: 04/27/2022 Date Made Active in Reports: 07/18/2022

Number of Days to Update: 82

Source: Department of Health & Environmental Control

Telephone: 803-898-3882 Last EDR Contact: 01/23/2023

Next Scheduled EDR Contact: 05/08/2023 Data Release Frequency: Annually

Financial Assurance 1: Financial Assurance Information Listing

Financial assurance information for a lid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 06/22/2022 Date Data Arrived at EDR: 06/23/2022 Date Made Active in Reports: 09/12/2022

Number of Days to Update: 81

Source: Department of Health & Environmental Control

Telephone: 803-896-4067 Last EDR Contact: 12/01/2022

Next Scheduled EDR Contact: 03/20/2023 Data Release Frequency: Semi-Annually

Financial Assurance 2: Financial Assurance Information Listing

Hazardous waste financial assurance information.

Date of Government Version: 08/01/2022 Date Data Arrived at EDR: 08/02/2022 Date Made Active in Reports: 08/25/2022

Number of Days to Update: 23

Source: Department of Health & Environmental Control

Telephone: 803-898-3880 Last EDR Contact: 12/01/2022

Next Scheduled EDR Contact: 03/20/2023

Data Release Frequency: Varies

Financial Assurance 3: Financial Assurance Information Listing

UST financial assurance information.

Date of Government Version: 01/07/2022 Date Data Arrived at EDR: 01/07/2022 Date Made Active in Reports: 03/23/2022

Number of Days to Update: 75

Source: Department of Health & Environmental Control

Telephone: 803-898-3880 Last EDR Contact: 12/29/2022

Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Varies

GWCI: Groundwater Contamination Inventory

An inventory of all groundwater contamination cases in the state.

Date of Government Version: 07/01/2008 Date Data Arrived at EDR: 11/06/2008 Date Made Active in Reports: 11/19/2008

Number of Days to Update: 13

Source: Department of Health and Environmental Control

Telephone: 803-898-3798 Last EDR Contact: 12/13/2022

Next Scheduled EDR Contact: 04/03/2023 Data Release Frequency: Annually

NPDES: Waste Water Treatment Facilities Listing
A listing of waste water treatment facility locations.

TC7239351.2s Page GR-24

Date of Government Version: 10/17/2022 Date Data Arrived at EDR: 10/18/2022 Date Made Active in Reports: 01/09/2023

Number of Days to Update: 83

Source: Department of Health & Environmental Control

Telephone: 803-898-4300 Last EDR Contact: 01/17/2023

Next Scheduled EDR Contact: 05/01/2023 Data Release Frequency: Varies

UIC: Underground Injection Wells Listing

A listing of underground injection wells locations.

Date of Government Version: 07/27/2022 Date Data Arrived at EDR: 07/27/2022 Date Made Active in Reports: 08/01/2022

Number of Days to Update: 5

Source: Department of Health & Environmental Control

Telephone: 803-898-3799 Last EDR Contact: 01/23/2023

Next Scheduled EDR Contact: 05/08/2023 Data Release Frequency: Semi-Annually

MANIFEST: Hazardous Waste Manifest Data

A generator who transports, or offers for transportation, hazardous waste for off-site treatment, storage or disposal must prepare a hazardous waste manifest to accompany such shipment.

Date of Government Version: 12/31/2020 Date Data Arrived at EDR: 02/03/2022

Date Made Active in Reports: 05/02/2022

Number of Days to Update: 88

Source: Department of Health & Environmental Control

Telephone: 803-898-3796 Last EDR Contact: 01/30/2023

Next Scheduled EDR Contact: 05/15/2023 Data Release Frequency: Annually

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 04/06/2018 Date Data Arrived at EDR: 10/21/2019 Date Made Active in Reports: 10/24/2019

Number of Days to Update: 3

Source: USGS

Telephone: 703-648-6533 Last EDR Contact: 11/22/2022

Next Scheduled EDR Contact: 03/06/2023 Data Release Frequency: Varies

PCS: Permit Compliance System

PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011 Date Data Arrived at EDR: 08/05/2011 Date Made Active in Reports: 09/29/2011

Number of Days to Update: 55

Source: EPA, Office of Water Telephone: 202-564-2496 Last EDR Contact: 12/28/2022

Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Semi-Annually

PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014 Date Data Arrived at EDR: 01/06/2015 Date Made Active in Reports: 05/06/2015

Number of Days to Update: 120

Source: EPA

Telephone: 202-564-2496 Last EDR Contact: 12/28/2022

Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Semi-Annually

PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014 Date Data Arrived at EDR: 02/05/2015 Date Made Active in Reports: 03/06/2015

Number of Days to Update: 29

Source: EPA

Telephone: 202-564-2497 Last EDR Contact: 12/28/2022

Next Scheduled EDR Contact: 04/17/2023 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 Source: EDR, Inc.
Date Data Arrived at EDR: N/A Telephone: N/A
Date Made Active in Reports: N/A Last EDR Contact: N/A

Number of Days to Update: 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 Source: EDR, Inc.
Date Data Arrived at EDR: N/A Telephone: N/A
Date Made Active in Reports: N/A Last EDR Contact: N/A

Number of Days to Update: 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 C

Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA HWS: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS 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 Health and Environmental Control in South Carolina.

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 Health and Environmental Control

Telephone: N/A

Last EDR Contact: 06/01/2012 Next Scheduled EDR Contact: N/A Data Release Frequency: Varies

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 Health and Environmental Control in South Carolina.

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 Health and Environmental Control

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 Health and Environmental Control in South Carolina.

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 Health and Environmental Control

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: 08/08/2022 Date Data Arrived at EDR: 08/08/2022 Date Made Active in Reports: 10/21/2022

Number of Days to Update: 74

Source: Department of Energy & Environmental Protection

Telephone: 860-424-3375 Last EDR Contact: 11/16/2022

Next Scheduled EDR Contact: 02/20/2023 Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018 Date Data Arrived at EDR: 04/10/2019 Date Made Active in Reports: 05/16/2019

Number of Days to Update: 36

Source: Department of Environmental Protection

Telephone: N/A

Last EDR Contact: 12/28/2022

Next Scheduled EDR Contact: 04/17/2023 Data Release Frequency: Annually

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: 01/01/2019 Date Data Arrived at EDR: 10/29/2021 Date Made Active in Reports: 01/19/2022

Number of Days to Update: 82

Source: Department of Environmental Conservation

Telephone: 518-402-8651 Last EDR Contact: 01/27/2023

Next Scheduled EDR Contact: 05/08/2023 Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018 Date Data Arrived at EDR: 07/19/2019 Date Made Active in Reports: 09/10/2019

Number of Days to Update: 53

Source: Department of Environmental Protection

Telephone: 717-783-8990 Last EDR Contact: 01/06/2023

Next Scheduled EDR Contact: 04/24/2023 Data Release Frequency: Annually

RI MANIFEST: Manifest information Hazardous waste manifest information

> Date of Government Version: 12/31/2020 Date Data Arrived at EDR: 11/30/2021 Date Made Active in Reports: 02/18/2022

Number of Days to Update: 80

Source: Department of Environmental Management

Telephone: 401-222-2797 Last EDR Contact: 12/20/2022

Next Scheduled EDR Contact: 02/27/2023 Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018 Date Data Arrived at EDR: 06/19/2019 Date Made Active in Reports: 09/03/2019

Number of Days to Update: 76

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 12/01/2022

Next Scheduled EDR Contact: 03/20/2023 Data Release Frequency: Annually

Oil/Gas Pipelines

Source: Endeavor Business Media

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 Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data

Source: Endeavor Business Media

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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 Day Care List Source: Department of Social Services

Telephone: 803-898-7345

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, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Department of Natural Resources

Telephone: 803-734-9494

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

STREET AND ADDRESS INFORMATION

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GEOCHECK®-PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

HARRIS CORNER 138 LAUREL HILL RD FORT MILL, SC 29707

TARGET PROPERTY COORDINATES

Latitude (North): 34.945346 - 34[^] 56' 43.25" Longitude (West): 80.838473 - 80[^] 50' 18.50"

Universal Tranverse Mercator: Zone 17 UTM X (Meters): 514749.8 UTM Y (Meters): 3866796.8

Elevation: 619 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 15786724 CATAWBA NE, SC

Version Date: 2020

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 principle 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.

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).

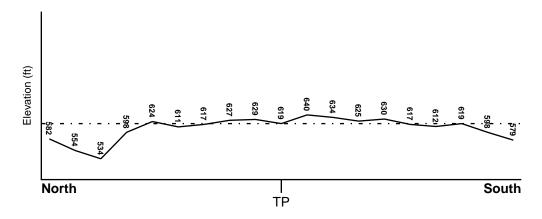
TOPOGRAPHIC INFORMATION

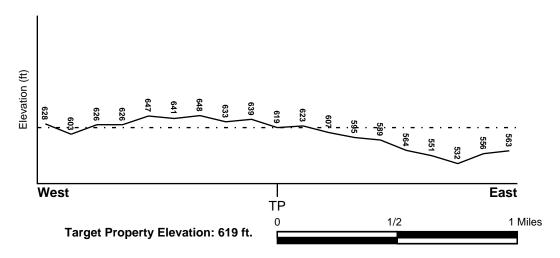
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient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

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General East

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





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.

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

45057C0080D FEMA FIRM Flood data

Additional Panels in search area: FEMA Source Type

45057C0090D FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property Data Coverage

CATAWBA NE 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
 FROM TP
 GROUNDWATER FLOW

 Not Reported
 GROUNDWATER FLOW

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

GEOLOGIC AGE IDENTIFICATION

Era: Paleozoic Category: Volcanic Rocks

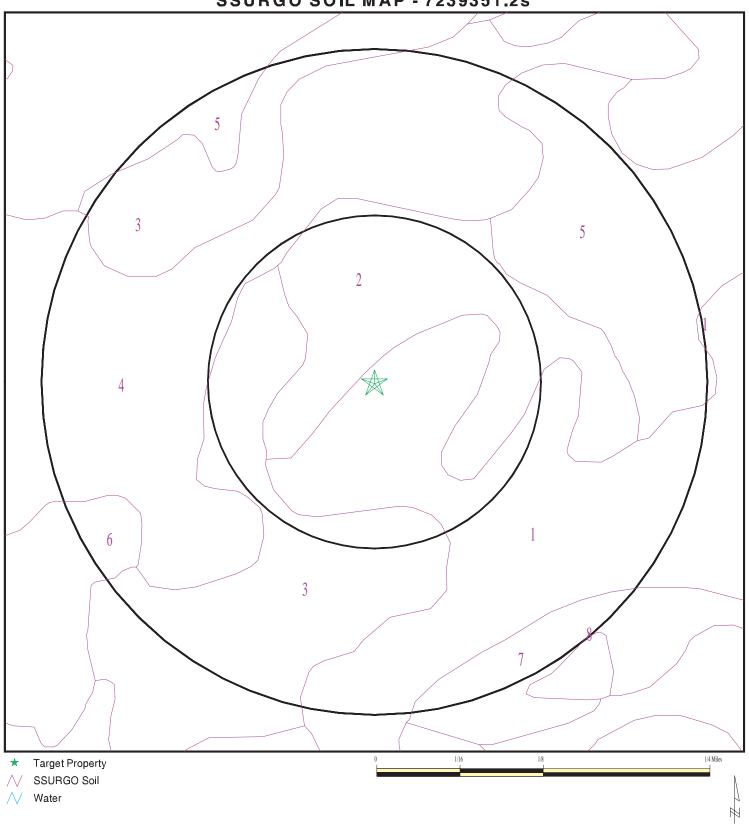
System: Cambrian

Series: Cambrian volcanic rocks

Code: Cv (decoded above as Era, System & Series)

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).

SSURGO SOIL MAP - 7239351.2s



SITE NAME: Harris Corner ADDRESS: 138 LAUREL HILL RD FORT MILL SC 29707

LAT/LONG: 34.945346 / 80.838473

CLIENT: Atlas CONTACT: Kenneth Windsand

INQUIRY#: 7239351.2s

DATE: January 31, 2023 10:10 am

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. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Herndon

Soil Surface Texture: silt loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

	Soil Layer Information										
	Воц	undary		Classi	fication	Saturated hydraulic					
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec					
1	0 inches	5 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:				
2	5 inches	33 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:				
3	33 inches	44 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:				

	Soil Layer Information										
	Bou	Boundary		Classification		Saturated hydraulic					
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)				
4	44 inches	51 inches	silt loam, weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:				

Soil Map ID: 2

Soil Component Name: Nason

Soil Surface Texture: silt loam, weathered bedrock

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: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

	Soil Layer Information											
	Bou	ndary		Classi	fication	Saturated hydraulic						
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)					
1	29 inches	42 inches	silt loam, weathered bedrock	Not reported	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: 14 Min: 4	Max: 6.5 Min: 4.5					

	Soil Layer Information										
	Вои	Boundary	Classi	Classification							
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	hydraulic conductivity micro m/sec	Soil Reaction (pH)				
2	18 inches	29 inches	silt loam	Not reported	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: 14 Min: 4	Max: 6.5 Min: 4.5				
3	3 inches	18 inches	silty clay loam	Not reported	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: 14 Min: 4	Max: 6.5 Min: 4.5				
4	0 inches	3 inches	loam	Not reported	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silts.	Max: 14 Min: 4	Max: 6.5 Min: 4.5				

Soil Map ID: 3

Soil Component Name: Georgeville

Soil Surface Texture: silty clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

	Soil Layer Information										
	Вои	ındary		Classi	fication	Saturated hydraulic					
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)				
1	0 inches	3 inches	silty clay loam	Not reported	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6 Min: 3.6				
2	3 inches	5 inches	silt loam	Not reported	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6 Min: 3.6				
3	5 inches	9 inches	silty clay loam	Not reported	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6 Min: 3.6				
4	9 inches	40 inches	clay	Not reported	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6 Min: 3.6				
5	40 inches	62 inches	silty clay loam	Not reported	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6 Min: 3.6				

Soil Map ID: 4

Soil Component Name: Georgeville
Soil Surface Texture: silty clay loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

	Soil Layer Information										
	Воц	ındary		Classi	fication	Saturated hydraulic					
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)				
1	0 inches	3 inches	silty clay loam	Not reported	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6 Min: 3.6				
2	3 inches	5 inches	silt loam	Not reported	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6 Min: 3.6				
3	5 inches	9 inches	silty clay loam	Not reported	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6 Min: 3.6				
4	9 inches	40 inches	clay	Not reported	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6 Min: 3.6				
5	40 inches	62 inches	silty clay loam	Not reported	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6 Min: 3.6				

Soil Map ID: 5

Soil Component Name: Tatum
Soil Surface Texture: clay

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep,

moderately well and well drained soils with moderately coarse

textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

	Soil Layer Information										
	Воц	ındary		Classi	fication	Saturated hydraulic					
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)				
1	5 inches	35 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 14 Min: 4	Max: 6 Min: 3.6				
2	35 inches	48 inches	silt loam, weathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 14 Min: 4	Max: 6 Min: 3.6				
3	0 inches	5 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	Not reported	Max: 14 Min: 4	Max: 6 Min: 3.6				

Soil Map ID: 6

Soil Component Name: Georgeville

Soil Surface Texture: silt loam

Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse Hydrologic Group:

textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

	Soil Layer Information										
	Воц	ındary		Classification		Saturated hydraulic					
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)				
1	0 inches	3 inches	silt loam	Not reported	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6 Min: 3.6				
2	3 inches	5 inches	silt loam	Not reported	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6 Min: 3.6				
3	5 inches	9 inches	silty clay loam	Not reported	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6 Min: 3.6				
4	9 inches	40 inches	clay	Not reported	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6 Min: 3.6				
5	40 inches	62 inches	silty clay loam	Not reported	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 6 Min: 3.6				

Soil Map ID: 7

Soil Component Name: Manteo

Soil Surface Texture: channery silt loam

Hydrologic Group: Class C/D - Drained/undrained hydrology class of soils that can be

drained and classified.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 38 inches

	Soil Layer Information										
	Воц	ındary		Classi	fication	Saturated hydraulic					
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	conductivity micro m/sec	Soil Reaction (pH)				
1	0 inches	7 inches	channery silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:				
2	7 inches	20 inches	channery silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:				
3	20 inches	24 inches	unweathered bedrock	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	Not reported	Max: Min:	Max: Min:				

Soil Map ID: 8

Soil Component Name: Water

Soil Surface Texture: channery silt loam

Hydrologic Group: Class C/D - Drained/undrained hydrology class of soils that can be

drained and classified.

Soil Drainage Class: Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

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

LOCATION

MAP ID WELL ID FROM TP

No Wells Found

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

LOCATION MAP ID WELL ID FROM TP

No PWS System Found

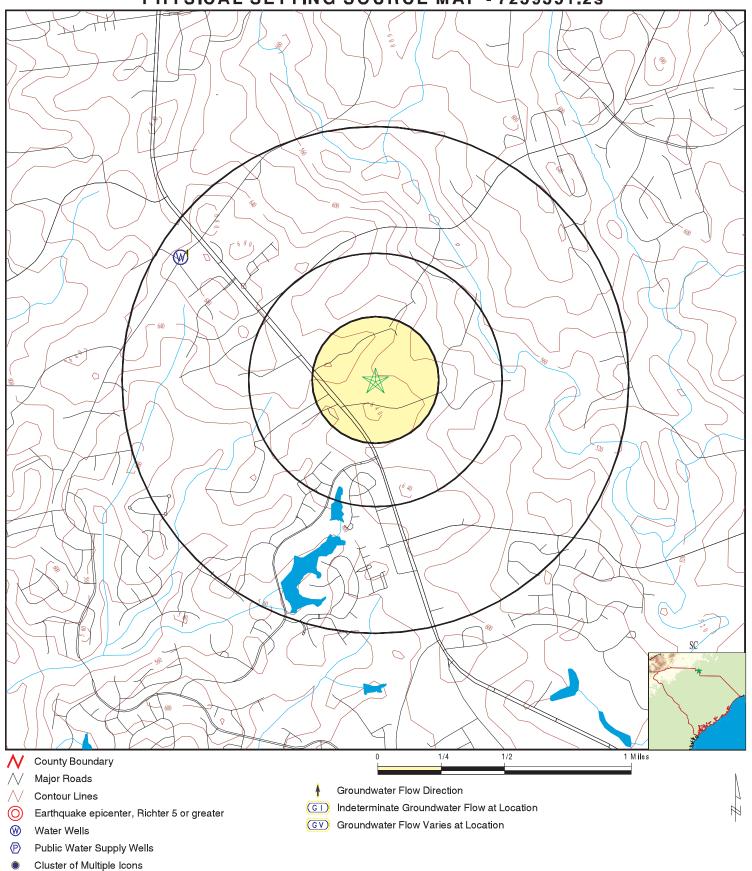
Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

LOCATION MAP ID WELL ID FROM TP

1 SCP500000000502 1/2 - 1 Mile WNW

PHYSICAL SETTING SOURCE MAP - 7239351.2s



SITE NAME: Harris Corner ADDRESS: 138 LAUREL HILL RD

FORT MILL SC 29707 34.945346 / 80.838473 LAT/LONG:

CLIENT: Atlas CONTACT: Kenneth Windsand INQUIRY#: 7239351.2s

January 31, 2023 10:10 am DATE:

GEOCHECK®-PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID Direction Distance

Elevation Database EDR ID Number

1 WNW SC WELLS SCP500000000502 1/2 - 1 Mile

1/2 - 1 Mile Higher

Database: Water Well Database (Piedmont Counties)

SCDNR Grid #: 29D--I001 Old SCDNR #: 29D--I001 SCWRC #: 29D--I001 SCWRC Transitional #: 29D--I001 SCWRC Original #: 29D--l01 DHEC Permit #: Not Reported DHEC Construction Permit #: Not Reported DHEC Public Supply Sys #: Not Reported

DHEC Public Well #: Not Reported Total Well Depth: 500
Completed Depth: 0 Elevation: 625

Topography: HTOP Aquifer: Not Reported

Basin: Not Reported Water Use: WS Source: WY Yield: 58

Updated: 19940106000000.000

GEOCHECK®- PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: SC Radon

Radon Test Results

Zipcode	Average	Num Tests	Minimum	Maximum	% > 4 pCi/L
29707	4.3	101	0.6	17.0	41.6

Federal EPA Radon Zone for LANCASTER 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 LANCASTER COUNTY, SC

Number of sites tested: 15

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor Living Area - 2nd Floor	-0.120 pCi/L Not Reported	100% Not Reported	0% Not Reported	0% 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, 2010 and 2015 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory Source: Department of Natural Resources

Telephone: 803-734-9494

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

South Carolina Water Well Database

Source: Department of Natural Resources

Telephone: 803-734-6440

Water wells in the Coastal Plain counties of South Carolina.

Water Well Database

Source: Department of Natural Resources

Telephone: 864-654-1671

A listing of water wells in the Piedmont (upstate) counties.

OTHER STATE DATABASE INFORMATION

RADON

State Database: SC Radon

Source: Department of Health & Environmental Control

Telephone: 864-241-1090 Radon Test Results by Zip Code

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

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APPENDIX F AERIAL PHOTOGRAPHS

Carolina Reserve Commons

LAUREL HILL RD Fort Mill, SC 29707

Inquiry Number: 7022932.8

June 21, 2022

The EDR Aerial Photo Decade Package



EDR Aerial Photo Decade Package

06/21/22

Site Name: Client Name:

Carolina Reserve Commons Atlas

LAUREL HILL RD 7606 Whitehall Executive Cntr Fort Mill, SC 29707 Charlotte, NC 28273-0000 EDR Inquiry # 7022932.8 Contact: Kenneth Windsand



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:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	Source
2017	1"=500'	Flight Year: 2017	USDA/NAIP
2014	1"=500'	Flight Year: 2014	USDA/NAIP
2011	1"=500'	Flight Year: 2011	USDA/NAIP
2008	1"=500'	Flight Year: 2008	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1999	1"=500'	Flight Date: March 04, 1999	USGS
1998	1"=500'	Acquisition Date: January 01, 1998	USGS/DOQQ
1995	1"=500'	Acquisition Date: January 01, 1995	USGS/DOQQ
1993	1"=500'	Flight Date: January 28, 1993	USGS
1989	1"=500'	Flight Date: March 19, 1989	USGS
1983	1"=500'	Flight Date: March 03, 1983	NHAP
1976	1"=500'	Flight Date: March 01, 1976	USGS
1968	1"=500'	Flight Date: February 17, 1968	USDA
1965	1"=500'	Flight Date: February 18, 1965	USGS
1951	1"=500'	Flight Date: February 05, 1951	USDA
1938	1"=500'	Flight Date: April 05, 1938	ASCS

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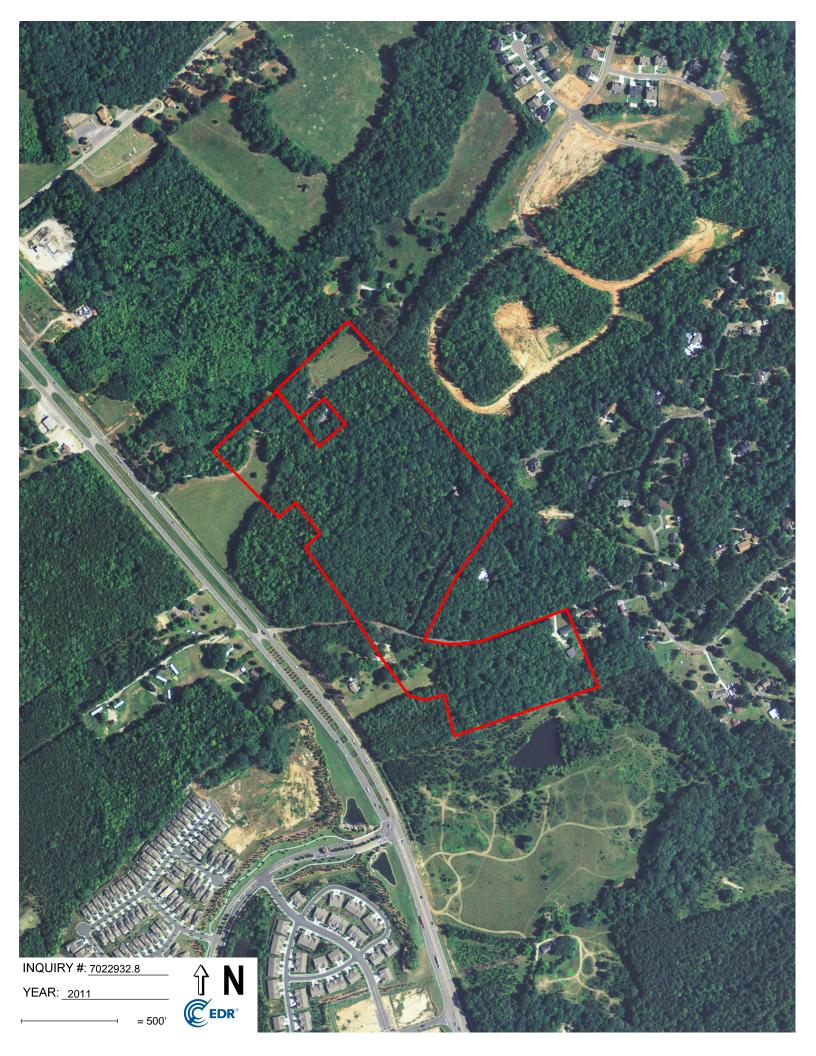
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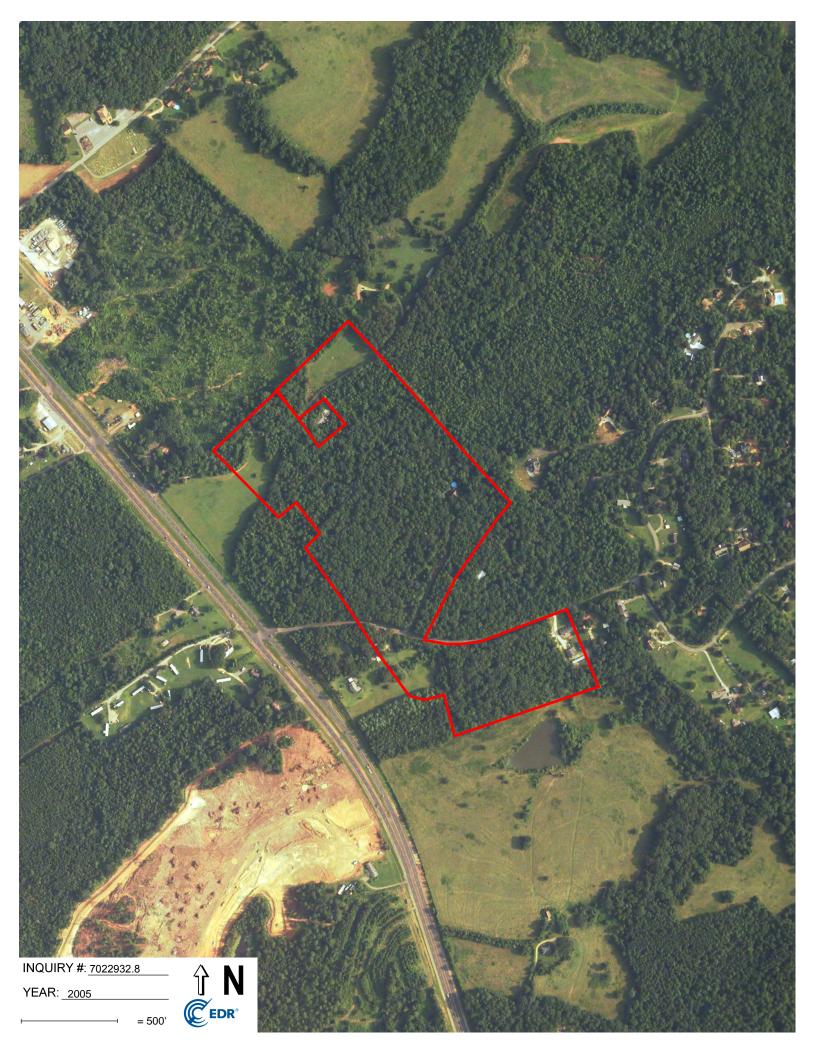
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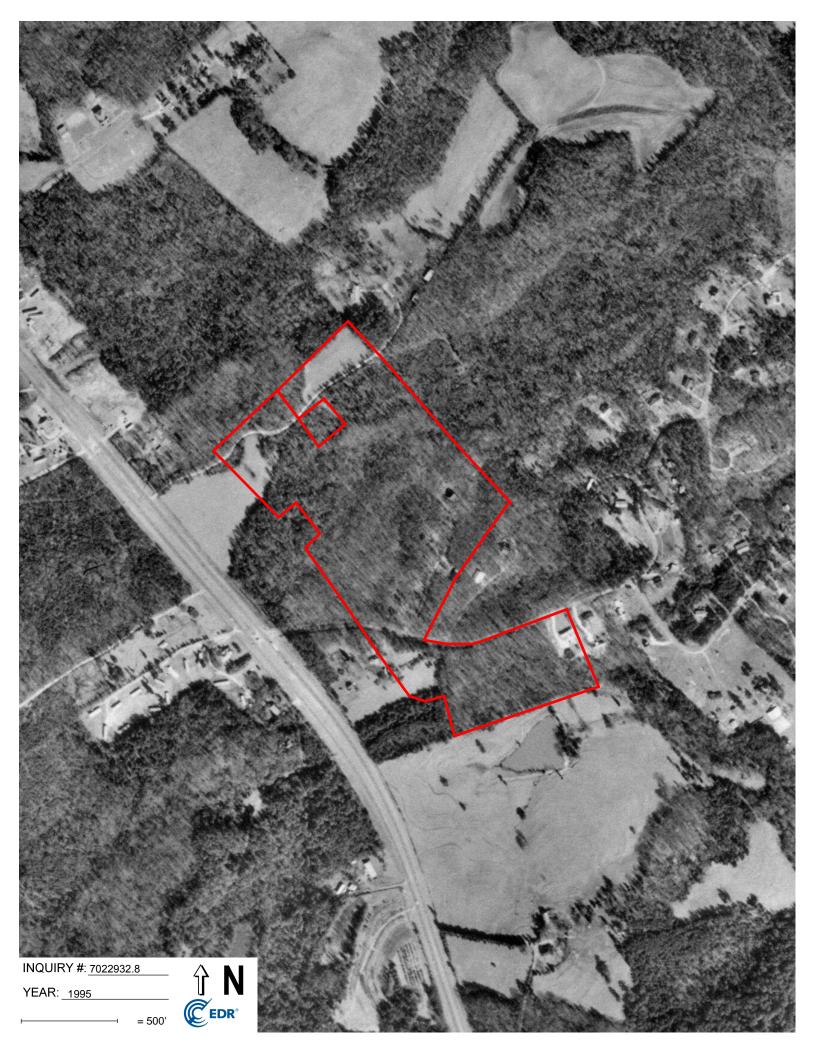


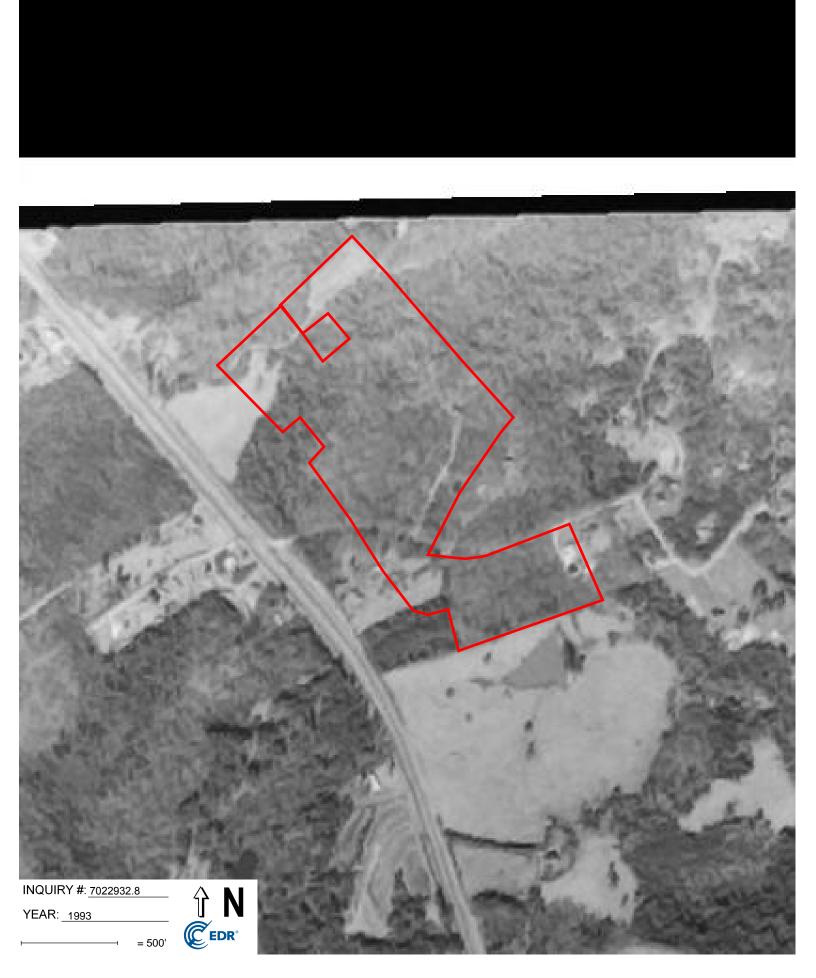












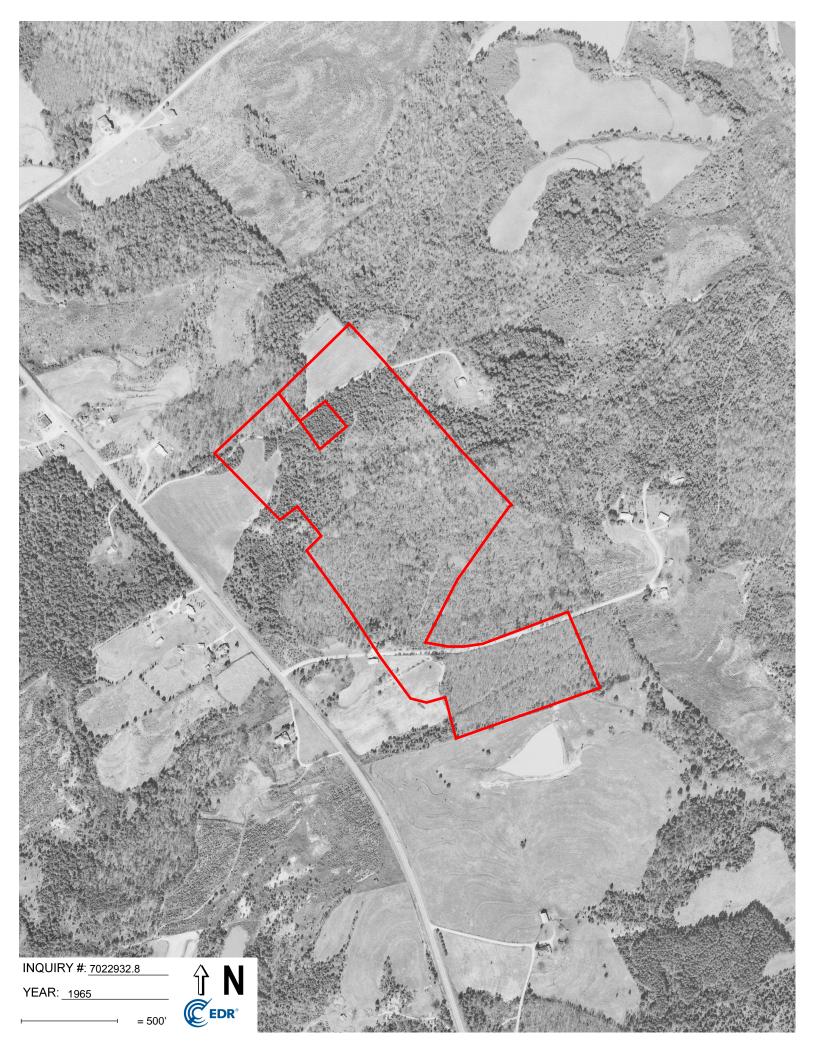














INQUIRY #: 7022932.8

YEAR: 1951





INQUIRY #: 7022932.8 YEAR: 1938





APPENDIX G HISTORICAL RESEARCH DOCUMENTATION

Carolina Reserve Commons LAUREL HILL RD Fort Mill, SC 29707

Inquiry Number: 7022932.4

June 17, 2022

EDR Historical Topo Map Report

with QuadMatch™



EDR Historical Topo Map Report

06/17/22

Site Name: Client Name:

Carolina Reserve Commons

LAUREL HILL RD Fort Mill, SC 29707 EDR Inquiry # 7022932.4 Atlas

7606 Whitehall Executive Cntr Charlotte, NC 28273-0000 Contact: Kenneth Windsand



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Atlas were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Res	ults:	Coordinates:	
P.O.#	NA	Latitude:	34.94546 34° 56' 44" North
Project:	Carolina Reserve Commons	Longitude:	-80.838274 -80° 50' 18" West
		UTM Zone:	Zone 17 North
		UTM X Meters:	514767.56
		UTM Y Meters:	3867006.75
		Elevation:	618.88' above sea level

Maps Provided:

2020

2017

2014

1988

1968

1941

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Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2020 Source Sheets



Catawba NE 2020 7.5-minute, 24000

2017 Source Sheets



Catawba NE 2017 7.5-minute, 24000

2014 Source Sheets



Catawba NE 2014 7.5-minute, 24000

1988 Source Sheets



Catawba NE 1988 7.5-minute, 24000 Aerial Photo Revised 1984

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1968 Source Sheets

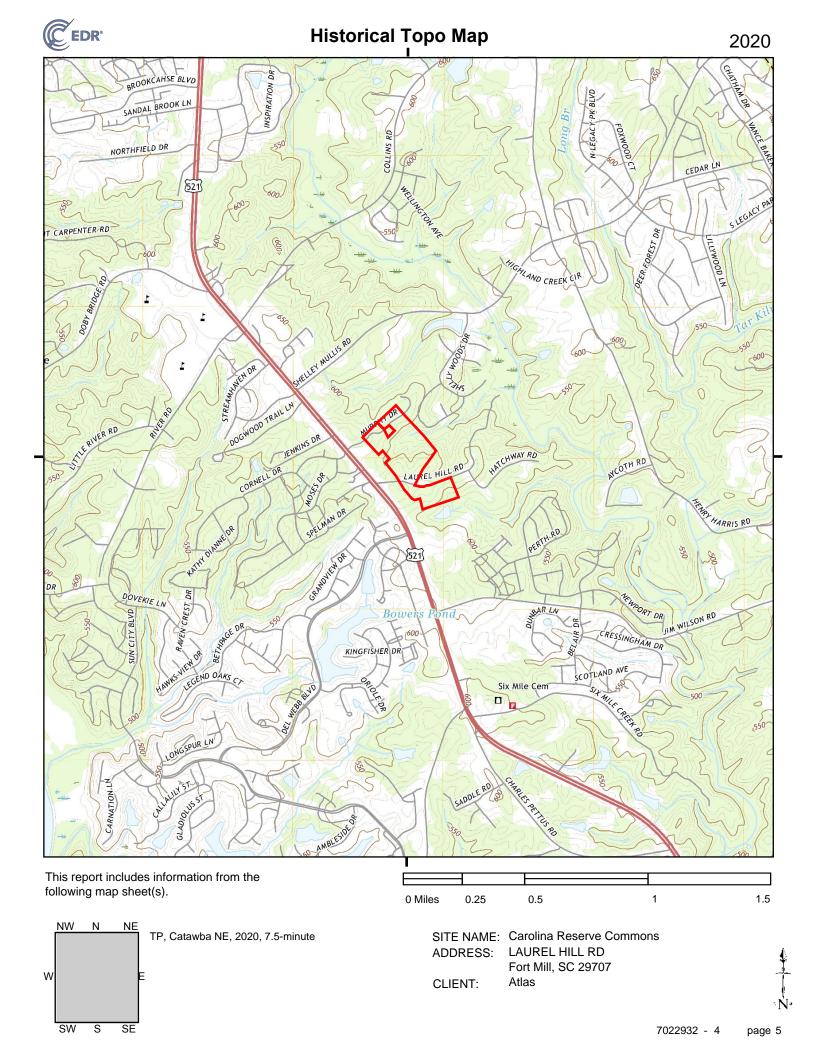


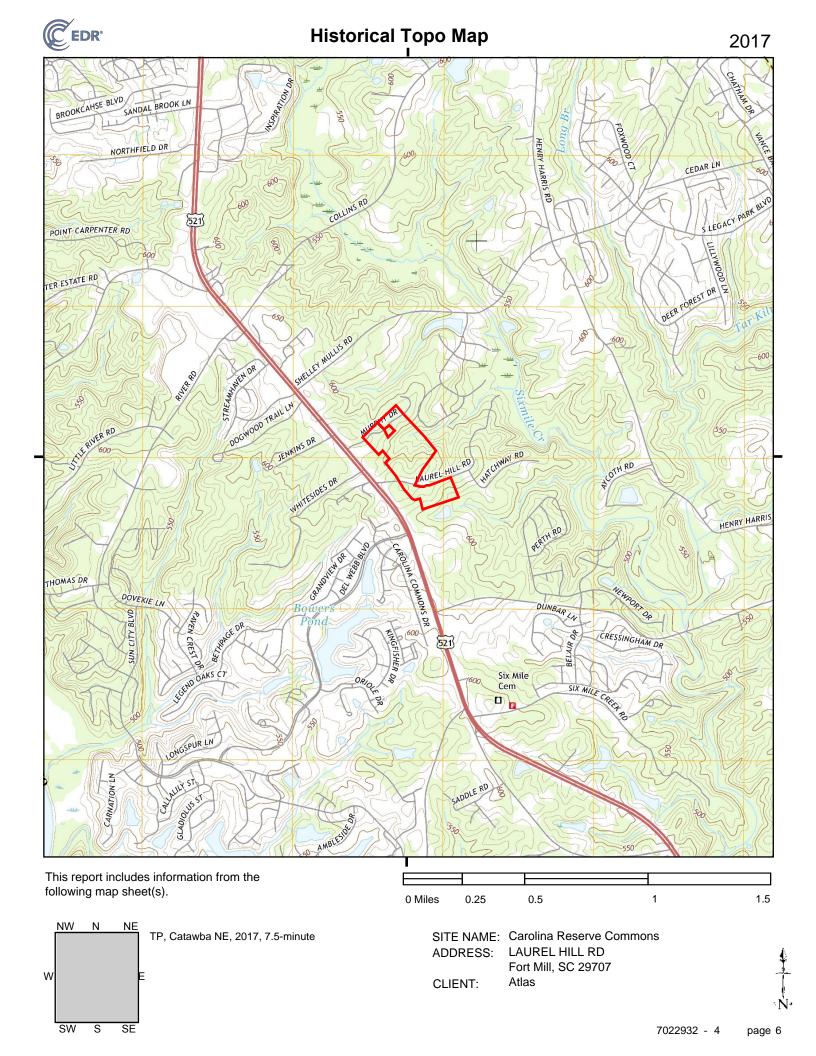
Catawba NE 1968 7.5-minute, 24000 Aerial Photo Revised 1965

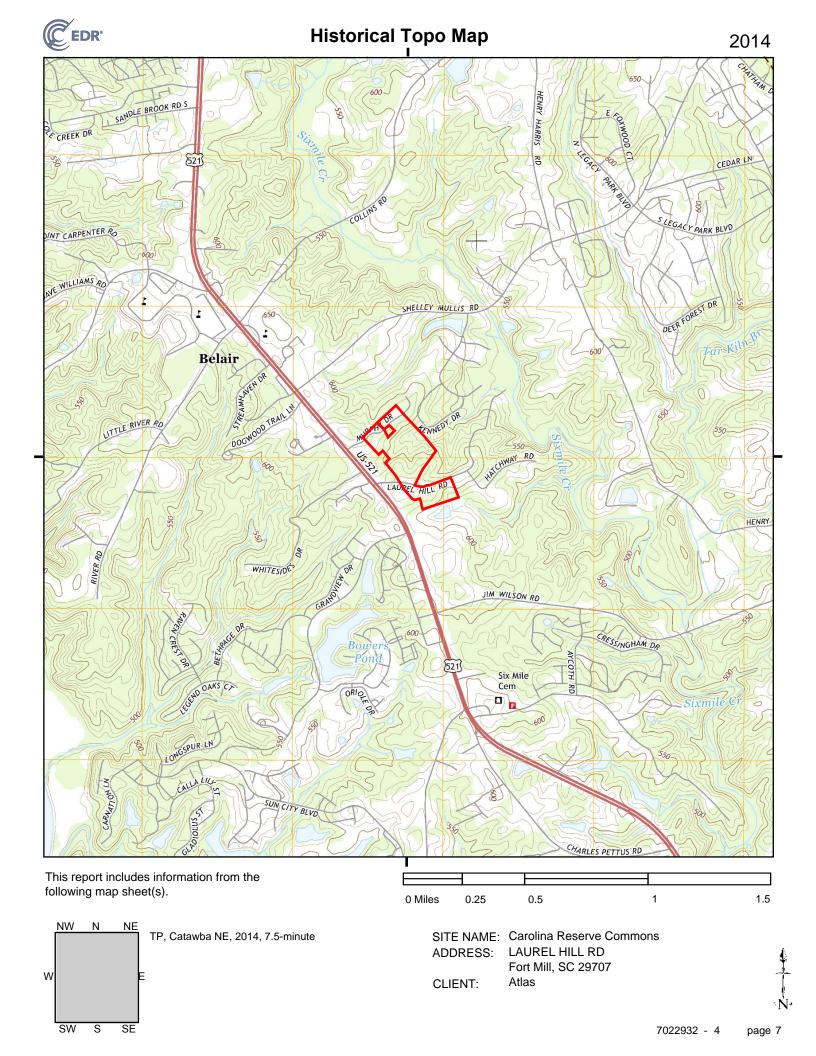
1941 Source Sheets

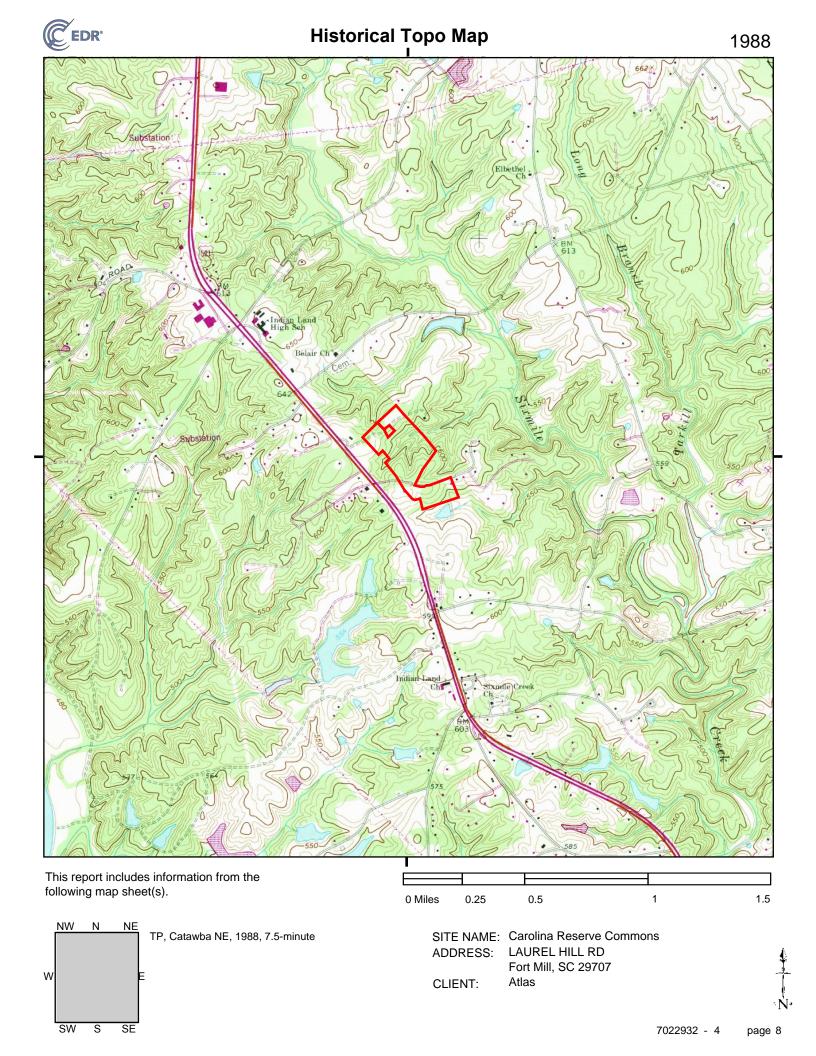


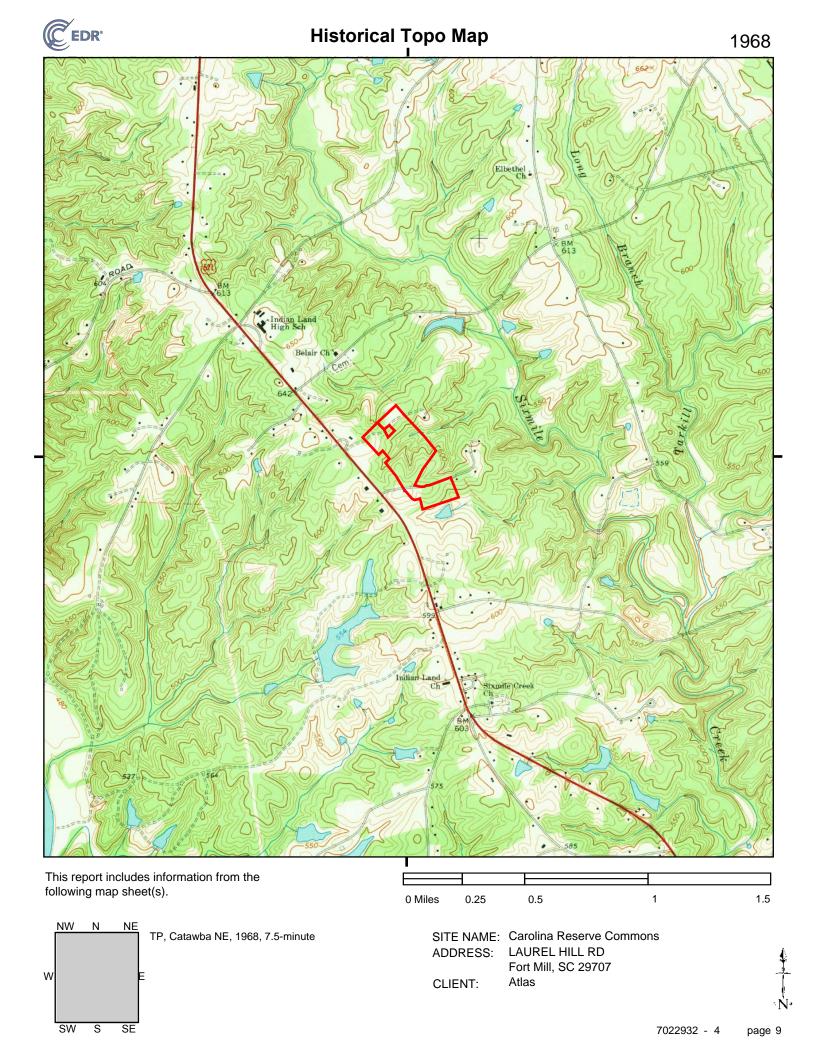
MONROE 1941 30-minute, 125000

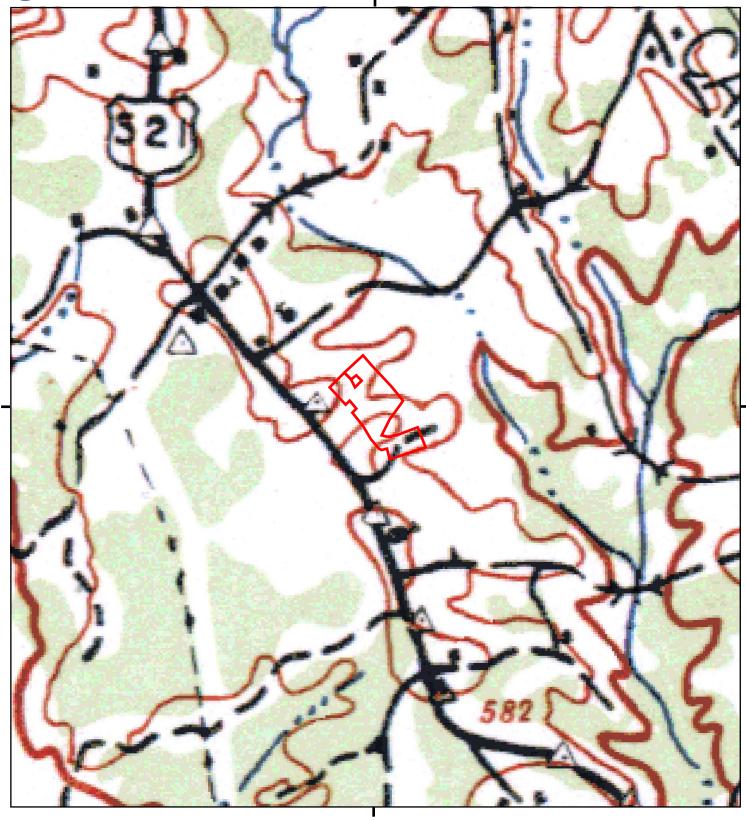




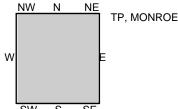




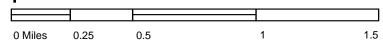




This report includes information from the following map sheet(s).



TP, MONROE, 1941, 30-minute



SITE NAME: Carolina Reserve Commons

ADDRESS: LAUREL HILL RD

Fort Mill, SC 29707

CLIENT: Atlas



Carolina Reserve Commons LAUREL HILL RD Fort Mill, SC 29707

Inquiry Number: 7022932.3

June 17, 2022

Certified Sanborn® Map Report



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

Certified Sanborn® Map Report

06/17/22

Site Name: Client Name:

Carolina Reserve Commons Atlas

LAUREL HILL RD 7606 Whitehall Executive Cntr Fort Mill, SC 29707 Charlotte, NC 28273-0000 EDR Inquiry # 7022932.3 Contact: Kenneth Windsand



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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 # 767F-486D-8BAD

PO# NA

Project Carolina Reserve Commons

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 #: 767F-486D-8BAD

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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Carolina Reserve Commons

LAUREL HILL RD Fort Mill, SC 29707

Inquiry Number: 7022932.5

June 21, 2022

The EDR-City Directory Image Report



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Executive Summary

Findings

City Directory Images

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Brad street. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	Target Street	Cross Street	<u>Source</u>
2017			EDR Digital Archive
2014	$\overline{\checkmark}$		EDR Digital Archive
2010	$\overline{\checkmark}$		EDR Digital Archive
2005			EDR Digital Archive
2000			EDR Digital Archive
1995			EDR Digital Archive
1991			POLK DIRECTORY CO
1986			POLK DIRECTORY CO
1981			HILLS DIRECTORY CO.
1976			HILLS DIRECTORY CO.
1971			HILLS DIRECTORY CO.
1966			HILLS DIRECTORY CO.
1964			HILLS DIRECTORY CO.

FINDINGS

TARGET PROPERTY STREET

LAUREL HILL RD Fort Mill, SC 29707

<u>Year</u>	<u>CD Image</u>	<u>Source</u>	
LAUREL H	IILLS RD		
2017	-	EDR Digital Archive	Target and Adjoining not listed in Source
2014	pg A4	EDR Digital Archive	
2010	pg A7	EDR Digital Archive	
2005	-	EDR Digital Archive	Target and Adjoining not listed in Source
2000	-	EDR Digital Archive	Target and Adjoining not listed in Source
1995	-	EDR Digital Archive	Target and Adjoining not listed in Source
1991	-	POLK DIRECTORY CO	Street not listed in Source
1986	-	POLK DIRECTORY CO	Street not listed in Source
1981	-	HILLS DIRECTORY CO.	Street not listed in Source
1976	-	HILLS DIRECTORY CO.	Street not listed in Source
1971	-	HILLS DIRECTORY CO.	Street not listed in Source
1966	-	HILLS DIRECTORY CO.	Street not listed in Source
1964	-	HILLS DIRECTORY CO.	Street not listed in Source

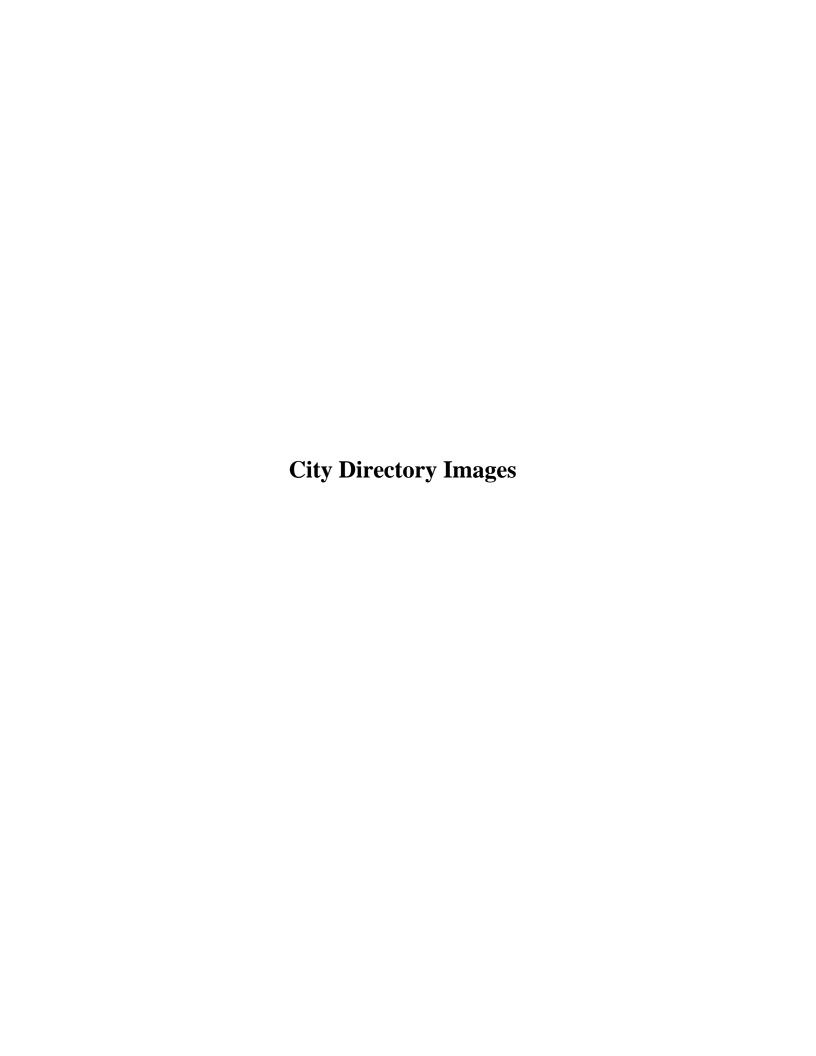
7022932-5 Page 3

FINDINGS

CROSS STREETS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>	
CHARLOTT	E HWY		
0047	M	EDD Divital Archive	
2017	pg. A1	EDR Digital Archive	
2014	pg. A2	EDR Digital Archive	
2010	pg. A6	EDR Digital Archive	
2005	pg. A9	EDR Digital Archive	
2000	pg. A10	EDR Digital Archive	
1995	pg.A11	EDR Digital Archive	
1991	-	POLK DIRECTORY CO	Street not listed in Source
1986	-	POLK DIRECTORY CO	Street not listed in Source
1981	-	HILLS DIRECTORY CO.	Street not listed in Source
1976	-	HILLS DIRECTORY CO.	Street not listed in Source
1971	-	HILLS DIRECTORY CO.	Street not listed in Source
1966	-	HILLS DIRECTORY CO.	Street not listed in Source
1964	-	HILLS DIRECTORY CO.	Street not listed in Source
MURPHY D	<u>R</u>		
2017	-	EDR Digital Archive	Target and Adjoining not listed in Source
2014	pg.A5	EDR Digital Archive	
2010	pg.A8	EDR Digital Archive	
2005	-	EDR Digital Archive	Target and Adjoining not listed in Source
2000	-	EDR Digital Archive	Target and Adjoining not listed in Source
1995	-	EDR Digital Archive	Target and Adjoining not listed in Source
1991	-	POLK DIRECTORY CO	Street not listed in Source
1986	-	POLK DIRECTORY CO	Street not listed in Source
1981	-	HILLS DIRECTORY CO.	Street not listed in Source
1976	-	HILLS DIRECTORY CO.	Street not listed in Source
1971	-	HILLS DIRECTORY CO.	Street not listed in Source
1966	-	HILLS DIRECTORY CO.	Street not listed in Source
1964	-	HILLS DIRECTORY CO.	Street not listed in Source

7022932-5 Page 4



7500	FAITH DDFODVTFDIAN OUUDOU
7520	
7553 7560	YARBOROUGH TRACTORS & EQUIPMENT
7560	RAZORS EDGE
7580	CACHE SALON
	FERGUSON FINANCIAL LLC
	FIRST CITIZENS BANK
	INDIAN LAND BERNATRICS
	INDIAN LAND PRIMARY CARE
	INDIAN LAND PRIMARY CARE
	MORTON & GETTYS ATTYS
	SOUTHEND TANNING SUNROOMS WINDOWS ETC INC
	TRIMNAL & MYERS LLC
	YOUR LIFE WELLNESS & PHYSICAL THERAP
7583	INDIAN LAND BAPTIST CHURCH
7624	521 STORAGE
7624 7641	DEL WEBB LIBRARY
7041	LANCASTER COUNTY LIBRARY
7659	WENDYS
7666	BARNETT FAMILY MEDICINE CAROLINA LAK
7000	BOWER JAMES CHARLES MD
	CHARLOTTE CARDIOLOGY ASSOCIATES PLLC
	COSTELLO KACIE JO PA C
	DR MICHAEL S VERNON MD
	GETTELFINGER DENNIS MD
	HAGGSTROM DANIEL MD
	LANGFORD AMANDA DNP
	MANDELL HOWARD MD
	MASSEY WILLIAM MCNAIR
	MECKLENBURG MEDICAL GROUPCAROLINA L
	RYDERCOOK ALLAN MD
	VAN CLEEFF SANDER MD
	VAN SANDER MD
7686	REDBOX
7697	CVS PHARMACY
8083	JOHNNYS PUB & GRUB
8123	CAPREIT
	UNIT PAVING INCORPORATED

CHARLOTTE HWY 2014

Source

7520	
7553	
7564	•
7572	WOODS, CHARLES
7576	COLE, DEBORAH L
7580	521 BBQ & GRILL
	BLACKWELLTRIMNAL LLC
	FERGUSON FINANCIAL LLC
	FIRST CITIZENS BANK
	INDIAN LAND PEDIATRICS LLC
	INDIAN LAND PRIMARY CARE
	KELLER WILLIAMS REALTY
	MORTON & GETTYS ATTYS
	SPRINGS INSURANCE SUNROOMS WINDOWS ETC INC
	TRIMNAL & MYERS LLC YOUR LIFE WELLNESS & PHYSICAL THER
7583	INDIAN LAND BAPTIST CHURCH
7503 7591	GRIFFIN, JOSEPH
7612	•
7612 7621	
7624	521 STORAGE
7024	521 STORAGE LLC
7641	DEL WEBB LIBRARY
7655	KITHCART, LYN R
7659	WENDYS
7666	BAKER KACI PAC
	BARNETTE FAMILY PRACTICECAROLINA LA
	BOSWELL APRIL MD
	BOWER JAMES CHARLES MD
	CAROLINAS HEALTHCARE SYSTEM
	CHARLOTTE CARDIOLOGY ASSOCIATES PLLC
	COSTELLO KACIE JO PAC
	DAWSON E SCOTT MD
	GETTELFINGER DENNIS MD
	HAGGSTROM DANIEL MD
	KIMMERLE GREGORY R MD
	LANGFORD AMANDA DNP
	MANDELL HOWARD MD
	METROLINA NEUROLOGICAL ASSOCIATES
	RYDERCOOK ALLAN MD
	VAN CLEEFF SANDER MD
	VANCLEEFF, SANDER
7697	CVS PHARMACY
7715	BB&T
7734	OCCUPANT UNKNOWN,
7776	TOTHEROW, LISA
7923	YANG, WEI
8036	OCCUPANT UNKNOWN,
8067	OCCUPANT UNKNOWN,

<u>Target Street</u> <u>Cross Street</u> <u>Source</u>
- EDR Digital Archive

CHARLOTTE HWY 2014 (Cont'd)

	CHARLOTTE HW	1 2014	(Cont a)	
8075 8081 8083 8097 8115	OCCUPANT UNKNOWN, OCCUPANT UNKNOWN, BREWS TAVERN MCCORKLE, JAMES O CUMMINS, BILLY K			
6116	COMMUNICA, DILLT K			

LAUREL HILLS RD 2014

138	OCCUPANT UNKNOWN,
154	OCCUPANT UNKNOWN,
165	JAMIESON, JEANNIE H
183	HUTCHINSON, WALLACE W
184	KLEINMAN, EILEEN
188	OCCUPANT UNKNOWN,
248	THERRELL, MICHAEL
267	HILL, SCOTT A
294	TURBEVILLE, RUSSELL D
308	HARRIS, LOIS A
314	OCCUPANT UNKNOWN,
323	LUKE, WILLIAM B
333	WARD, MICHAEL D
340	CATLEDGE, LARRY A
351	NOBLETT, JIMMY A
355	MEDLOCK, WILLIAM B
363	OCCUPANT UNKNOWN,
380	OCCUPANT UNKNOWN,
387	OCCUPANT UNKNOWN,
389	MAYE, CYNTHIA
392	OCCUPANT UNKNOWN,
407	MASSEY, ROGER W
414	SUTTERLIN, WILL C
427	ORNDOFF, KIM A
433	BLACKWELDER, ALEX
448	BLACKWELDER, JAMES R

MURPHY DR 2014

224 226	MCCORKLE, DON L MURPHY, JERRY L

7520	FAITH PRESBYTERIAN NEW CHURCH
7550 7553	YARBOROUG, ANGES W YARBOROUGH TRACTORS & EQUIP
7564	LEDBETTER, KELLI J
7504 7576	COUICK, ALAN
7576 7580	521 BBQ & GRILL
7300	FERGUSON FINANCIAL
	FERGUSON FINANCIAL FERGUSON FINANCIAL LLC
	FIRST CITIZENS BANK
	HEAR USA
	INDIAN LAND PRIMARY CARE
	MORTON & GETTYS
	ONE ON ONE LEARNING CTR
	SCOTT & STRINGFELLOW INC
	SPRINGS INSURANCE
	SUNROOMS WINDOWS & ETC
7583	INDIAN LAND BAPTIST CHURCH
7591	GRIFFIN, JAMIE L
7621	GRIFFIN, JERRY W
7624	521 STORAGE LLC
7641	DEL WEBB LIBRARY
7647	PULTE HOMES
7666	BARNETTE FAMILY MEDICINE
	CHARLOTTE CARDIOLOGY ASSOC
	MASSEY WILLIAM M MD
	SANGER HEART & VASCULAR INST
	SANGER HEART & VASCULAR INSTIT
	VANCLEEFF, SANDER
7686	WALGREENS
7697	CVS PHARMACY
7776	TOTHEROW, KENNY
7923	YANG, WEI
7955	CHURCH, DANIELE
8097	MCCORKLE, JAMES O
8115	CUMMINS, BILLY K
8123	UNIT PAVING INC
8165	MYERS INSURANCE
8169	SUB SHACK
8171	TIAN TIAN CHINESE RESTAURANT

LAUREL HILLS RD 2010

154	JAMIESON, RUSSELL S
165	JAMIESON, JEANNIE H
183	HUTCHINSON, WALLACE W
184	WHEELER, JESSICA A
246	KIMBRELL, AMY
248	THERRELL, MICHAEL
267	HILL, SCOTT A
294	TURBEVILLE, RUSSELL D
308	HARRIS, LOIS A
314	CATLEDGE, LARRY A
323	GRIFFIN, EULA J
333	WARD, MICHAEL D
340	ACCURATE PLUMBING SYSTEMS INC
351	NOBLETT, JIMMY A
355	MEDLOCK, WILLIAM B
363	CRAIG, JOE M
392	CARTER, JACOB J
407	MASSEY, ROGER W
414	SUTTERLIN, WILL C
433	BLACKWELDER, WILLIAM A
448	BLACKWELDER, JAMES R

MURPHY DR 2010

224 266	MCCORKLE, DON L DENISES BEAUTY SHOP

	31741231121W1 2000
7560 7564 7576	PROTER, HELEN STEGALL, GEORGE J COUICK, ALAN
7576	COUICK, ALAN

7	7560 7564 7576	PORTER, HELEN STEGALL, GEORGE COUICK, ALAN
,	0.0	

7564 7572	STEGALL, GEORGE BLANTON, TODD



APPENDIX H PRIOR REPORTS THIS SECTION INTENTIONALLY LEFT BLANK



APPENDIX I

RESUMES

KEY PERSONNEL

KENNETH J. WINDSAND, EIT

Project Manager

EXPERIENCE & RESPONSIBILITIES

Mr. Windsand is an Environmental Engineer with over nine years of industry experience providing environmental services, throughout, North Carolina, South Carolina, and Michigan. His experience includes, project management, field work and report preparation for Phase I and Phase II Environmental Site Assessments, Spill Prevention Control and Countermeasure (SPCCs) Plans, and assessment of sites with releases of petroleum hydrocarbons and chlorinated solvents, at petroleum retail facilities and dry-cleaning operations. Mr. Windsand is also a proven safety leader with a commitment to safety principles with experience preparing job hazard analysis and health and safety plans, performing tailgate safety discussions, and reporting hazard recognitions and near misses.

PROJECT EXPERIENCE

PROJECT MANAGEMENT - NORTH CAROLINA & SOUTH CAROLINA

Prepared proposals for Phase I and Phase II Environmental Site Assessment (ESA) opportunities in North and South Carolina. Once projects are authorized, initiated project set up within report writing platforms. Performed site investigations, reviewed public records, performed historical research and prepared reports for numerous sites, including commercial, single family residential, retail petroleum and vacant properties in accordance with the ASTM R 1527-13 Standards. Trained new hired staff level consultants.

PHASE I ESAs - NORTH CAROLINA & SOUTH CAROLINA

Performed site investigations, reviewed public records, performed historical research and prepared reports for numerous sites, including commercial, single family residential, retail petroleum and vacant properties in accordance with the ASTM E1527-13 Standards. Co-authored several Phase 1 ESA reports for developers.

PETROLEUM RETAIL, INDUSTRIAL & COMMERICAL SITES - NORTH CAROLINA, SOUTH CAROLINA & MICHIGAN

Provided excavation over sight at numerous industrial, commercial and petroleum retail sites during the removal of Underground storage tanks (USTs, hydraulic lifts, oil water separators, and remediation projects for development. Responsible for environmental services including air monitoring, soil sampling, soil characterization, documenting removal of impacted soil, and maintaining field documents

PETROLEUM AND DRY CLEANING FACLITIES - NORTH CAROLINA, SOUTH CAROLINA & MICHIGAN

Supervised subsurface investigation at numerous retail petroleum stations and dry cleaning facilities. Over sight of type II and type III monitoring well, soil gas vapor point, and subslab vapor monitoring points. Conducted indoor air, soil gas, groundwater, and potable water well sampling activities, performed receptor and utility surveys.

EDUCATION

Bachelor of Science in Environmental Engineering, Michigan Technological University, Houghton, MI

CERTIFICATIONS/ TRAINING

Engineer in Training (EIT)

OSHA 40-Hour Health and Safety Training: HAZWOPER

OSHA 8-Hour Refresher (Annual-Renewals)

First Aid and CPR



KEY PERSONNEL

KENNETH J. WINDSAND, EIT

Project Manager

SPCCs - NORTH CAROLINA, SOUTH CAROLINA, FLORIDA, AND VIRGINA

Conducted site walks and developed SPCCs at industrial and commercial facilities, auto dealerships, and municipalities from over 30 sites. Coordinated site walks and communicated directly with the clients regarding proper housekeeping, training, and maintenance of spill materials, provided recommendations for sites to stay within compliance.



H. Brad Hubbard, PG

Senior Project Manager

OFFICE LOCATION

Columbia, South Carolina

EDUCATION

B.S., Geology, Clemson University, 1977

M.S. Geology University of South Carolina, 1981

REGISTRATION

Professional Geologist:

- SC 764
- NC 1405
- GA 683
- VA 1709

CERTIFICATIONS

OSHA 1910.120 8-Hour Refresher Training (Current) OSHA 30-Hr.Constructio Certified Environmental Specialist SC Asbestos Inspector EPA AAI Environmental Professional

PROFESSIONAL ORGANIZATIONS

Geological Society of America Carolina Geological Society SC Association of Environmental Professionals American Assoc. of Petroleum Geologists Urban Land Institute Commercial Real Estate Women

HIRE DATE

3/12/2012

EXPERIENCE PRIOR TO ATLAS (YEARS)

25

EXPERIENCE & RESPONSIBILITIES

Mr. Hubbard is a licensed Professional Geologist with over 30 years of project management, assessment and remediation experience with a variety of projects in the environmental industries. Mr. Hubbard has extensive experience in the management of environmental assessment activities, remedial design and operation, environmental permitting, and knowledge of state and federal regulations. He provides technical oversight on complex environmental projects and offers years of experience in working with many remediation technologies, such as biological and chemical treatment, physical treatment, risk evaluation and agency negotiation. He also delegates project responsibilities, identifying the best resources for project completion, mentors junior staff, and provides senior–level review of documentation.

AREAS OF EXPERTISE

- Environmental Consulting
- Risk Management
- Due Diligence and Industrial Hygiene
- Soil and Groundwater Assessment
- Remediation System Design and Implementation

PROJECT EXPERIENCE

Assessment and Remediation Services, Major Oil Company Client

Since 2012, Mr. Hubbard has managed assessment and remediation activities at over 50 sites in South Carolina for a major oil company client. As a result, over 40 sites have been successfully closed reaching either risk-based or regulatory closure goals. Assessment activities included tank and soil removal, field screening, installation of assessment monitoring wells, sampling and analysis, and data evaluation. Remediation services have included utilizing aggressive vapor/fluid recovery technology, surfactant injection, chemical and biological injections, and attenuation monitoring.

Remediation System Design and Implementation

Mr. Hubbard has experience with remediation system design and pilot tests, negotiation of work scope and cost with client and state agency, designing the budget for system installation, permitting and performance monitoring. Technologies used included vacuum extraction, soil vapor extraction with air sparging, chemical oxidation (peroxide and permanganate), bioamendments and nutrient addition, infiltration galleries, hydraulic control.

Due Diligence Services

Mr. Hubbard performs and manages Phase I and Phase II Environmental Site Assessments throughout the southeastern US. The scope of work includes site inspections, lien/AUL research,

regulatory and historical information evaluation, interviews, and reporting. Non-ASTM scope activities includes evaluation of the potential for asbestos in building materials, potential for the presence of lead paint and mold/water damage, and presence of radon and wetlands. Mr. Hubbard has performed well over 1,000 ESAs in his career and is qualified as an ASTM Environmental Professional.

KEY PERSONNEL

H. Brad Hubbard, PG

Senior Project Manager

Industrial Hygiene Services

Mr. Hubbard has performed oversight and conducted asbestos inspections at a variety of commercial and multi-family residential structures, and coordinates abatement and clearance air monitoring. He ensures quality assurance and compliance with state-specific requirements in addition to AHERA and NESHAPS protocols. He performs mold inspections and sampling (tape lifts, Q-trap samplers), moisture mapping and indoor air quality sampling, sewage contamination sampling and reporting, and radon gas investigations and designs radon mitigation strategies. He has prepared Operations and Maintenance (O&M) Plans for structures containing asbestos and lead-based paint.

Soil and Groundwater Assessments

Mr. Hubbard, as a Professional Geologist in Georgia, North Carolina, and South Carolina, has implemented and managed numerous soil and groundwater assessments in these states. Primarily these have been underground storage tank (UST) or other petroleum release sites, but have also included chlorinated solvent releases, metal plating fluids, PCBs, and radioactive constituents. He has experience in designing and managing projects under the federal CERCLA (Superfund) Program. He has managed assessment projects at US DOE facilities such as the Savannah River Site and the Idaho National Laboratory. Activities performed have included design of the project sampling and analysis plan, permit preparation, preparation of site-specific health and safety plans, coordinating initial field screening and monitoring well installation and sampling, performing data evaluation and risk analysis, and performing quality assurance procedures. Clients have included major oil and gas companies, regional distributors, industrial concerns, state and federal governmental agencies.



APPENDIX J RECORDS OF COMMUNICATION

Records of Communication and interviews are incorporated within the text of the report



APPENDIX K LABORATORY REPORTS THIS SECTION INTENTIONALLY LEFT BLANK



APPENDIX L OTHER SUPPORTING DOCUMENTATION



Parcel Summary

Parcel ID 0013-00-067.00

Account # 1581 Millage Group

01 - County - County 51.959 AC Land Size **Location Address** LAUREL HILL RD Lancaster 29720

Zoning LDR: Low Density Residential

Neighborhood

Property Use Code Non Qualified Residential (NRN)

Plat Book 0005 0225 Plat Page

Block# Lot#

Scanned Property Card

Property Card

Note: Property Cards are current as of 4/1/2020 and are no longer updated

Owner Information

HARRIS JAMES E ETAL, TRUSTEES PO BOX 1401 **DAVIDSON NC 28036**

Land Information

Land Use	Number of Units	Unit Type	Land Type	Frontage	Depth	AgUse Value
NQRes (NRN)	1.00	ACRES	SITE	0	0	\$0
QualAg (QUSE)	50.96	CROP/TIMBER	SITE	0	0	\$6,217

Sales Information

Sale Date	Sale Price	Instrument Number	Deed Book	Deed Page	Sale Qualification	Vacant or Improved	Grantor	Grantee
5/4/2018	\$1	DEED	1141	203	Unqualified - QUIT CLAIM	Improved	HARRIS JAMES E ETAL, TRUSTEES	HARRIS JAMES E ETAL, TRUSTEES
11/8/2011	\$1	DEED	644	1	Unqualified - NON ATI	Improved	JAMES E HARRIS RENEWABLE ENERGY DEVELOPMENT LLC ETAL	HARRIS JAMES E ETAL TRUSTEES
11/8/2011	\$1	DEED	642	330	Unqualified - INTER- COMPANY TRANSFER	Improved	HARRIS JANIE LUCILLE TRUST	JAMES E HARRIS RENEWABLE ENERGY DEVELOPMENT LLC ETAL
2/3/2004	\$1		0225	0182	Unqualified - LOVE AND AFFECTION	Improved	HARRIS JANIE LUCILLE TRUST	HARRIS JANIE LUCILLE TRUST

Assessed Values

	2021	2020	2019	2018
Market Land Value	\$3,642,204	\$1,822,488	\$1,822,488	\$1,822,488
+ Market Improvement Value	\$0	\$0	\$0	\$0
+ Market Misc Value	\$0	\$0	\$0	\$0
= Total Market Value	\$3,642,204	\$1,822,488	\$1,822,488	\$1,822,488
Taxable Land Value	\$3,642,204	\$1,822,488	\$1,822,488	\$1,822,488
+ Taxable Improvement Value	\$0	\$0	\$0	\$0
+ Taxable Misc Value	\$0	\$0	\$0	\$0
- Ag Credit Value	(\$3,335,987)	(\$1,784,271)	(\$1,784,271)	(\$1,784,271)
= Total Taxable Value	*\$306,217	*\$38,217	*\$38,217	*\$38,217
Assessed Land Value	\$2,457	\$2,169	\$2,169	\$2,169
+ Assessed Improvement Value	\$0	\$0	\$0	\$0
+ Assessed Misc Value	\$0	\$0	\$0	\$0
= Total Assessed Value	\$2,457	\$2,169	\$2,169	\$2,169

^{*}This parcel is subject to the value cap

No data available for the following modules: Commercial Building Information, Building Information, Mobile Home Information, Accessory Information, Photos, Sketches.

The data contained on this site is intended for information purposes only. It is based on the best information available at the time of posting and is not warranted. The data may not reflect the most current records.

<u>User Privacy Policy</u> <u>GDPR Privacy Notice</u>

Last Data Upload: 3/21/2022, 8:21:50 AM

Developed by

Schneider

GEOSPATIAL

Version 2.3.180

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Parcel Summary

Parcel ID 0013-00-067.02 Account # 65256 Millage Group 01 - County - County 9.45 AC Land Size

165 LAUREL HILL RD **Location Address** Lancaster 29720

Zoning LDR: Low Density Residential

Neighborhood

Property Use Code Qualified Residential (QR)

Plat Book 9511 0000 Plat Page

Block# Lot#

Scanned Property Card

Property Card

Note: Property Cards are current as of 4/1/2020 and are no longer updated

Owner Information

JAMIESON JEANNIE HARRIS, TRUSTEE 165 LAUREL HILL RD **INDIAN LAND SC 29707**

Land Information

Land Use	Number of Units	Unit Type	Land Type	Frontage	Depth	AgUse Value	
QualRes (QR)	5.00	ACRES	SITE	0	0	\$0	
QualAg (QUSE)	4.45	CROP/TIMBER	SITE	0	0	\$543	

Building Information

Building ID

Single Family Dwelling / 37 Style

Gross Sa Ft 3.712 Finished Sq Ft 2.720 Stories 2 Story Condition Average Interior Walls

Exterior Walls Wood Siding Year Built 1989

Garage

Porch

Effective Year Built 1989 Foundation Perm Footing Roof Type Gable **Roof Coverage** Composition Flooring Type Vinyl with 50% Carpet **Heating Type** Pack Heat\Cool

Bedrooms **Full Bathrooms** 2 0 Half Bathrooms 3/4 Bathrooms O Grade C+10 **Grade Description** Number of Fire PI

Unit Description Bedrooms Rooms

Code	Description	Sketch Area	Finished Area	Perimeter
80	2 STORY	1,360	2,720	148
06	COVERED PRCH	992	0	264
TOTAL		2.352	2.720	412

Accessory Information

Description	Year Built	Out Building Type	Size	Quantity	Units	Grade
BATH HSE	0	FR	0 x 0	1	1 SF	
STBL	1994	FRAME	0 x 0	1	1 SF	
UNT DECK	0	UNT DECK (34)	0 x 0	1	1 SF	
GAR	1988	CONCRETE	50 × 30	1	1500 SE	

Sales Information

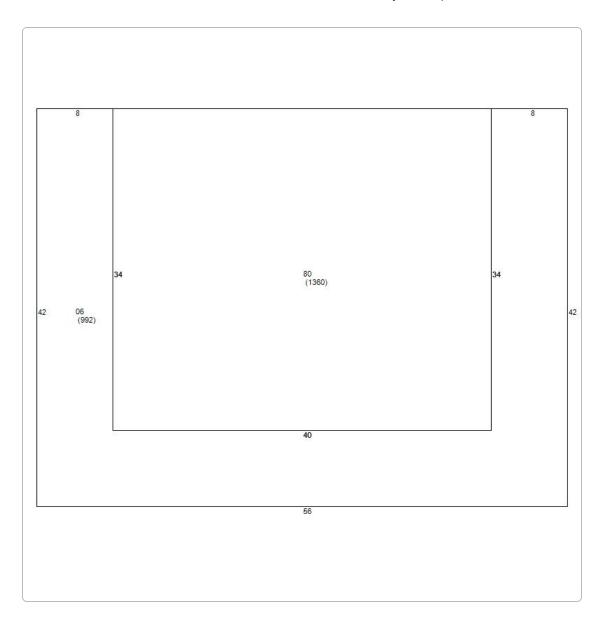
Sale Date	Sale Price	Instrument Number	Deed Book	Deed Page	Sale Qualification	Vacant or Improved	Grantor	Grantee
6/18/2013	\$0	DEED	742	130	Unqualified - NON ATI	Improved	JAMIESON JEANNIE H, TRUSTEE	JAMIESON JEANNIE HARRIS, TRUSTEE
12/9/2010	\$1	<u>DEED</u>	592	309	Unqualified - NON ATI	Improved	JAMIESON JEANNIE H	JAMIESON JEANNIE H, TRUSTEE
10/13/2009	\$0	DEED OF DIST	537	4	Unqualified - SPOUSE TO SPOUSE	Improved	JAMIESON EDWARD W & JEANNIE H	JAMIESON JEANNIE H
6/23/1988	\$5		S007	0306	Unqualified - FAMILY SALE	Improved	JAMIESON EDWARD W & JEANNIE H	JAMIESON EDWARD W & JEANNIE H

Assessed Values

	2021	2020	2019	2018
Market Land Value	\$453,600	\$302,400	\$302,400	\$302,400
+ Market Improvement Value	\$173,000	\$158,800	\$158,800	\$158,800
+ Market Misc Value	\$6,700	\$10,500	\$10,500	\$10,500
= Total Market Value	\$633,300	\$471,700	\$471,700	\$471,700
Taxable Land Value	\$453,600	\$302,400	\$302,400	\$302,400
+ Taxable Improvement Value	\$173,000	\$158,800	\$158,800	\$158,800
+ Taxable Misc Value	\$6,700	\$10,500	\$10,500	\$10,500
- Ag Credit Value	(\$213,057)	(\$141,857)	(\$141,857)	(\$141,857)
= Total Taxable Value	*\$420,243	*\$329,843	*\$329,843	*\$329,843
Assessed Land Value	\$8,684	\$6,422	\$6,422	\$6,422
+ Assessed Improvement Value	\$6,244	\$6,352	\$6,352	\$6,352
+ Assessed Misc Value	\$242	\$420	\$420	\$420
= Total Assessed Value	\$15,170	\$13,194	\$13,194	\$13,194

^{*}This parcel is subject to the value cap

Sketches



 $\textbf{No data available for the following modules:} \ Commercial \ Building \ Information, \ Mobile \ Home \ Information, \ Photos.$

The data contained on this site is intended for information purposes only. It is based on the best information available at the time of posting and is not warranted. The data may not reflect the most current records.

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Schneider GEOSPATIAL

Version 2.3.180

PROPERTY RECORD CARD

CARD	OF	•	COUNTY	OF: LAN	CASTER	}					rownship	>			CITY	OR TOWN		-	
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Parcel Summary

Parcel ID 0013-00-135.00

Account # 1667

01 - County - County Millage Group **Land Size** 1.52 AC

Location Address 184 LAUREL HILL RD Lancaster 29720

Zoning LDR: Low Density Residential

Neighborhood

Property Use Code Land Only (NLN)

Plat Book 0098 0285 Plat Page

Block# Lot#

Scanned Property Card

Property Card

Note: Property Cards are current as of 4/1/2020 and are no longer updated

Owner Information

HWP PROPERTIES LLC 770 JIM WILSON RD

INDIAN LAND SC 29707

Land Information

Land Use	Number of Units	Unit Type	Land Type	Frontage	Depth	AgUse Value
LandOnly (NLN)	1.52	ACRES	SITE	0	0	\$0

Accessory Information

Description	Year Built	Out Building Type	Size	Quantity	Units	Grade
GAR LOW	1992	GAR LOW (GAR-L)	40 x 40	0	1600 SF	

Sales Information

Sale Date	Sale Price	Instrument Number	Deed Book	Deed Page	Sale Qualification	Vacant or Improved	Grantor	Grantee
5/4/2018	\$1	DEED	1141	193	Unqualified - QUIT CLAIM	Improved	HWP PROPERTIES LLC	HWP PROPERTIES LLC
6/3/2008	\$151,000	DEED	470	125	Unqualified - FORECLOSURE SALE	Improved	FEDERAL HOME LOAN MORTGAGE	HWP PROPERTIES LLC
11/14/2007	\$2,500	DEED	435	124	Unqualified - FORECLOSURE SALE	Improved	ARMSTRONG HAROLD N & BETTY J	FEDERAL HOME LOAN MORTGAGE CORPORATION
8/26/2004	\$5		0249	0347	Unqualified - LOVE AND AFFECTION	Improved	ARMSTRONG JANIE S	ARMSTRONG HAROLD N & BETTY J

Assessed Values

	2021	2020	2019	2018
Market Land Value	\$62,600	\$40,100	\$40,100	\$40,100
+ Market Improvement Value	\$0	\$0	\$0	\$0
+ Market Misc Value	\$3,500	\$5,400	\$5,400	\$5,400
= Total Market Value	\$66,100	\$45,500	\$45,500	\$45,500
Taxable Land Value	\$62,600	\$40,100	\$40,100	\$40,100
+ Taxable Improvement Value	\$0	\$0	\$0	\$0
+ Taxable Misc Value	\$3,500	\$5,400	\$5,400	\$5,400
- Ag Credit Value	\$0	\$0	\$0	\$0
= Total Taxable Value	*\$66,100	*\$45,500	*\$45,500	*\$45,500
Assessed Land Value	\$2,973	\$2,406	\$2,406	\$2,406
+ Assessed Improvement Value	\$0	\$0	\$0	\$0
+ Assessed Misc Value	\$166	\$324	\$324	\$324
= Total Assessed Value	\$3,139	\$2,730	\$2,730	\$2,730

^{*}This parcel is subject to the value cap

 $\textbf{No data available for the following modules:} Commercial \ Building \ Information, Building \ Information, Mobile \ Home \ Information, Photos, Sketches.$

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Version 2.3.180

0 PROPERTY RECORD CARD SECTION: COUNTY NO. CARD COUNTY OF: PRO. TP. DATE PRINTED LAND USE GROUP CONT. MAP PARCEL WARD PROPERTY ADDRESS DIST. MAP NO. 135.00 **MAILING ADDRESS** BOOK PAGE CONSIDERATION **OWNER'S NAME** DATE 1410 Spring Hill ROAd MAIL Stop 754 mclean Va 22101-3002 435 124 POBOK 3807 Florence SC 29502 470 125 193 DIMENSION **ACRES** SUBDIVISION PLAT. **PAGE BLOCK** LOT SPECIAL CONDITIONS ADDITIONAL DESCRIPTION ASSESSMENT RAISAL **ASSESSOR** BOARD TOTAL REAL **PERSONAL TOTAL VALUE** % 0013-00-135.00 LAND COMPUTATION PROPERTY FACTORS **BUILDING PERMIT RECORD** TOPOGRAPHY IMPROVEMENTS PERMIT NO: DATE: PERMIT NO. DATE: LEVEL CITY WATER CHECKED BY: CHECKED BY: COST: COST: HIGH WELL/SPRING PROJECT: PROJECT: LOW SEWER/SEPTIC LAND VALUE COMPUTATIONS ROLLÍNG GAS ACTUAL VALUE TOTAL DEPTH DEPTH FACTOR UNIT VALUE ACTUAL VALUE UNIT VALUE TOTAL FRONTAGE ELECTRIC ROCKY **ALL UTILITIES** SWAMPY-ST. OR ROAD DISTRICT **INFLUENCE** IMPROVING STATE HWY. NO. OF ACRES RATE PER ACRE NO. OF ACRES RATE PER ACRE CLASSIFICATION STATIC PAVED DECLINING GRAVEL BLIGHTÉD AREA PRIMITIVE SOIL TYPE FENCES GOOD LOAM SAND FAIR CLAY POOR **TOTAL ACREAGE** NONE . TOTAL LAND VALUE CHERT

PROPERTY RECORD CARD TOWNSHIP " CITY OR TOWN CARD COUNTY OF: LANCASTER PROPERTY TYPE PROPERTY ADDRESS LAND USE MAP NO. GROUP CONT. MAP PARCEL WARD 135 wy 52 02111 CONSIDERATION MAILING ADDRESS BOOK **PAGE** DATE OWNER'S NAME 4207 135 54 65,000 264 199 108, 159, 64 **ACRES PAGE BLOCK** LOT DIMENSION 97-285 1.524 **SPECIAL CONDITIONS** DATE SOLD PART OF ORIGINAL TRACT TO: ZONED San. # 09633 **ASSESSMENT APPRAISAL ASSESSOR BOARD TOTAL REAL TOTAL VALUE** YEAR LAND IMPR. **PERSONAL** 1370 370 LAND COMPUTATION PROPERTY FACTORS BUILDING PERMIT RECORD SALES INFORMATION 8185 TOPOGRAPHY **IMPROVEMENTS** DATE: PERMIT NO. # Commet For SALE 123/272 CITY WATER CHECKED BY Great DATE WELL/SPRING PROJECT: CHECKED BY: SEWER/SEPTIC LAND VALUE COMPUTATIONS LOW ROLLING GAS FRONTAGE TOTAL TOTAL DEPTH FACTOR UNIT VALUE ACTUAL VALUE ELECTRIC ROCKY SWAMPY ALL UTILITIES 1370 1.524 OE (2) 905 CX DISTRICT ST. OR ROAD INFLUENCE CLASSIFICATION NO. OF ACRES RATE PER ACRE NO. OF ACRES RATE PER ACRE STATE HWY IMPROVING PAVED STATIC GRAVEL DECLINING BLIGHTED AREA PRIMITIVE SOIL TYPE FENCES LOAM GOOD FAIR SAND **TOTAL ACREAGE** POOR CLAY **TOTAL LAND VALUE** CHERT NONE

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PISH A WILDLIPE SERVICE

U.S. Fish and Wildlife Service

National Wetlands Inventory

Wetlands Map harris corner



June 20, 2022

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Other

Riverine

___Ouile

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

National Flood Hazard Layer FIRMette

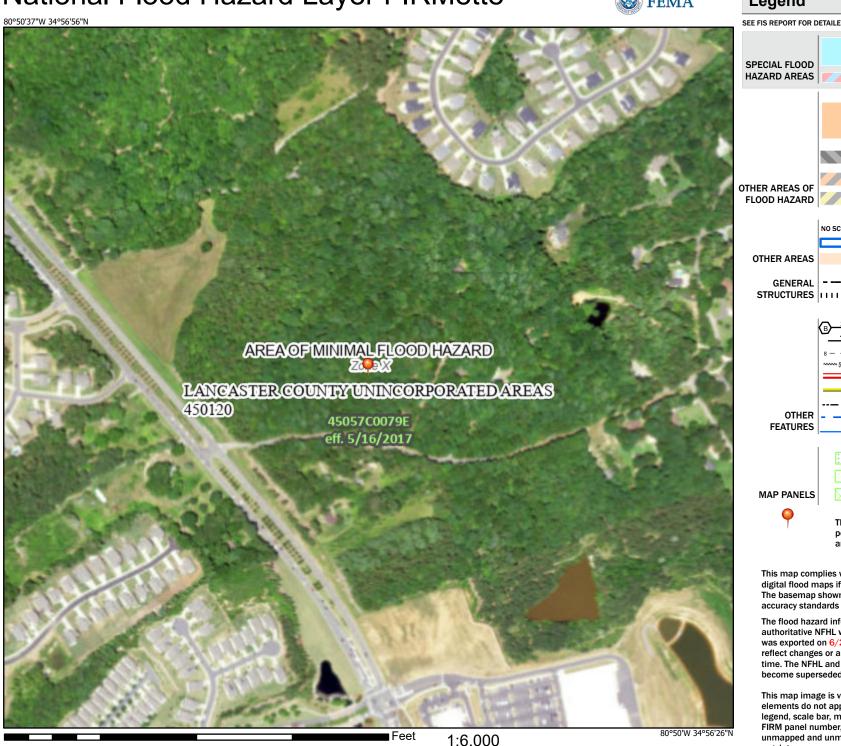
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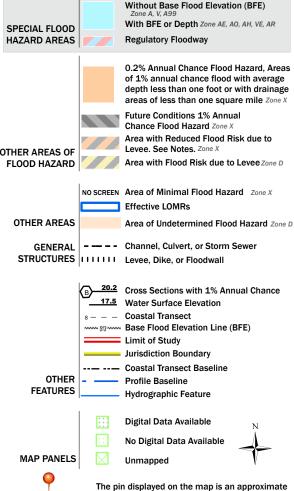


2.000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap

point selected by the user and does not represent

an authoritative property location.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/20/2022 at 12:22 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



Is My Water Safe?

The Lancaster County Water and Sewer District (LCWSD) is pleased to provide you with this year's Annual Drinking Water Quality Report (also known as Consumer Confidence Report) as required by the Safe Drinking Water Act (SDWA). This report details where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. This report details your water's quality in 2021. We are committed to providing you with information because informed customers are our best allies.

Covering Our Community

32,000+ Water Customers 20,200+ Sewer Customers

1,150 miles of water lines.
Lancaster to Texas.
375 miles of sewer mains.
Lancaster to Florida.



Jacks inville Where Florida Begins.

LCWSD Staff Behind Your Services Brad Bucy District Manager LCWSD: 10 years

Margaret Flow Business Manager LCWSD: 23 years

Wes Carter Operations Manager LCWSD: 8 years

Robbie Peagler Facilities Superintendent LCWSD: 23 years Paul Rickenbaker Water Superintendent LCWSD: 15 years

Gerald Cauthen Sewer Superintendent LCWSD: 16 years

James Hawthorne Development Engineer LCWSD: 16 years

English Henderson Human Resources Dir. LCWSD: 3 years Neil Rollins IT Director LCWSD: 2 years

C.F. Truesdale Office Manager LCWSD: 25 years

Michael Marcus GIS Director LCWSD: 9 years

Kerri Baker Finance Director LCWSD: 2 years Quincy Reed Route Tech Supvr. LCWSD: 14 years

Tim Kiser Professional Engineer LCWSD: 3 years

Darrell Fenton Quality Control LCWSD: 15 years

Where We Get Our Water & How It's Treated

STEP ONE: The Source



Raw water is pumped from the Catawba River into a 23-acre lake for pre-settling the raw water. It then travels into a 92-acre reservoir at the Catawba River Water Treatment Facility.

STEP TWO: The Settling



The raw water is pumped from the reservoir into the facility for treatment.

STEP THREE: Coagulation & Sedimentation



Chemicals are mixed into the water to form solid material around small particles in the raw water, causing them to settle to the bottom of large settling tanks. The particles are then removed.

STEP FOUR: Filtration



The water flows through filters of carbon and sand to remove any remaining particles.

STEP FIVE: Disinfection

Chloramines



Chloramines are added to disinfect the water and ensure that it is safe to drink when it reaches your tap.

As water travels over land or underground, it can pick up substances or contaminants such as microbes, inorganic & organic chemicals, and radioactive substances. All drinking water, including bottled water, may be reasonably expected to contain small amounts of some contaminants. It's important to remember the presence of these contaminants doesn't necessarily pose a health risk. Some people may be more vulnerable to contaminants in drinking water than the general population.

Immuno-compromised people such as those undergoing chemotherapy, have undergone organ transplants, have HIV/AIDS or other immune system disorders, and some elderly and infants can be particularly at risk from infections. These people should seek advice from their health care providers. For more information about contaminants and potential health effects, or for EPA/CDC guidelines on ways to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline at 1-800-426-4791.

Lead in Drinking Water

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and internal plumbing.

LCWSD is responsible for providing high-quality drinking water; it is non-corrosive and has a corrosion inhibitor added to the water to coat the pipes. However, we cannot control the variety of materials used in the plumbing components of houses and businesses. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to two minutes before drinking or cooking.

If you are concerned about lead in your water you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline (800-426-4791) or www.epa.gov/safewater/lead.

The Revised Lead and Copper Rule

The Environmental Protection Agency's (EPA) Lead and Copper Rule (LCR), first established in 1991, recently underwent its most extensive revision in 30 years to better protect children and communities from the risks of lead exposure by better protecting children at schools and child care facilities, getting the lead out of our nation's drinking water, and empowering communities through information.

Improvements under the new rule have an effective date of October 2024 and include: Using science-based testing protocols to identify more lead sources in drinking water. Establishing a trigger level to jumpstart mitigation earlier and in more communities. Mandating more and complete lead service line replacements. For the first time, requiring testing in schools and childcare facilities. Requiring water systems to identify and make public the locations of lead service lines.

As LCWSD develops our compliance plans for the new LCR, we want you to know we have been proactive about lead and copper in several ways. We've started service line inventory data collection. This inventory will include both the LCWSD side and the customer side of the meter. To date, we have not found any lead service lines in our system. Meter setters with a lead content were removed years ago. Because of our past test results that are below the EPA's limits, LCWSD is on a reduced monitoring schedule. The periodic lead and copper testing at select, high-risk households within our system will take place again in the fall of 2022.

Annual Drinking Water Report

On this page are the results of LCWSD's monitoring from January-December 2021, unless otherwise noted. (Lancaster County Water & Sewer District System #2920001; Catawba River Water Treatment Plant System #2920002

Chlorine: Not in violation.

MRDL & MRDLG Maximum Allowed: 4 ppm. Annual LCWSD average: 3.0 ppm.

The annual average for water LCWSD purchased from Catawba River WTP. Typical source is a water additive used to control microbes. MRDL (maximum residual disinfection level) is the highest level of disinfectant allowed in the drinking water. MRDLG (maximum residual disinfection level goal) is the level of drinking water disinfection below which there is no known or expected risk to health.

Chlorite: Not in violation.

MRDL/MRDLG Allowed: 1.0 ppm/0.8 ppm. Annual LCWSD average: 0.48 ppm.

The annual average for water LCWSD purchased from Catawba River WTP. Ranged from 0.01 to 0.48 ppm. Typical source is a water additive used to control microbes. A part per million = one minute in two years.

Chlorine Dioxide: Not in violation.

MRDL & MRDLG Allowed: 80 parts per billion. Annual LCWSD average: Not detected.

The annual average for water LCWSD purchased from Catawba River WTP. Ranged below detectable limits. Typical source is a water additive used to control microbes. A part per billion = one minute in 2,000 years.

Nitrate: Not in violation.

MRDL & MRDLG Allowed: 10 parts per million. Annual LCWSD average: 0.91 ppm.

The annual average for water LCWSD purchased from Catawba River WTP was 0.91 ppm. Typical source is runoff from fertilizer use, leaching from septic tanks or sewage, erosion of natural deposits. The Maximum Contaminant Level is set by DHEC and is the highest level of contaminant allowed in drinking water. A parts per million = one minute in two years. The "goal" (MCLG) is the level of a contaminant in drinking water below which no known or expected risk to health exists. MCLGs allow for a margin of safety.

Fluoride: Not in violation.

MRDL & MRDLG Allowed: 4 parts per million. Annual LCWSD average: 0.70 ppm.

The annual average for water LCWSD purchased from Catawba River WTP was 0.70 ppm. Typical source is erosion of natural deposits, water additive to promote strong teeth, discharge from fertilizer and aluminum factories. The Maximum Contaminant Level is set by DHEC and is the highest level of contaminant allowed in drinking water. A parts per million = one minute in two years. The "goal" (MCLG) is the level of a contaminant in drinking water below which no known or expected risk to health exists. MCLGs allow for a margin of safety.

Annual Drinking Water Report

On this page are the results of LCWSD's monitoring from January-December 2021, unless otherwise noted. (Lancaster County Water & Sewer District System #2920001; Catawba River Water Treatment Plant System #2920002

Total Organic Carbon: Not in violation.

MRDL & MRDLG Allowed: TT. Annual LCWSD average: 2.0 - RAA.

The range met the requirement. Sample frequency was monthly. Typical source is naturally present in the environment. TT is defined as a treatment technique that is a required process intended to reduce the level of contaminant in drinking water. Running Annual Average, RAA must be more than 1.0 to meet compliance.

Total Trihalomethanes: Not in violation.

MCL Maximum Allowed (Action Level): 80 parts per billion. Annual LCWSD avg.: 20 ppb.

The annual average for water LCWSD purchased from Catawba River WTP. Ranged from 11 to 59.0 ppm. Typical source is byproduct of drinking water disinfectant. A part per billion = one minute in 2,000 years. Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys or central nervous systems and may have an increased risk of getting cancer.

Lead: Not in violation. (Last required test in 2019.)

MCL Maximum Allowed (Action Level): 15 parts per billion.

Highest amount detected in LCWSD water (90th percentile value): 8.0 ppb.

Laboratory analysis indicates that lead is not present above the limit. Not required to sample again until September 2022. See "Important Lead and Copper Information" in this report. Typical source is corrosion of materials containing lead in household plumbing. A part per billion = one minute in 2,000 years.

Copper: Not in violation. (Last required test in 2019.)

MCL Maximum Allowed (Action Level): 1.3 parts per million.

Highest amount detected in LCWSD water (90th percentile value): 0.22 ppm.

Not required to sample again until September 2022. See "Important Lead and Copper Information" in this report. Typical source is corrosion of materials. Corrosion of materials containing copper in household plumbing, erosion of natural deposits. Action Level is concentration of contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow. A part per million = 1 penny in \$10,000.

Haloacetic Acids (HAAs): Not in violation.

MCL Maximum Allowed (Action Level): 60 parts per billion. Annual LCWSD avg.: 12 ppb.

The annual average for water LCWSD purchased from Catawba River WTP was 10.7 ppb. Ranged from 4.0 to 22.0. Typical source is byproduct of drinking water disinfectant. A part per billion = one minute in 2,000 years.

A Source Water Assessment Plan (SWAP) has been completed for LCWSD's water system. SWAPs, among other things, identify potential sources of contamination to drinking water supplies. For a copy, please call LCWSD at 285-6919 or 1-800-832-2126 during normal business hours.

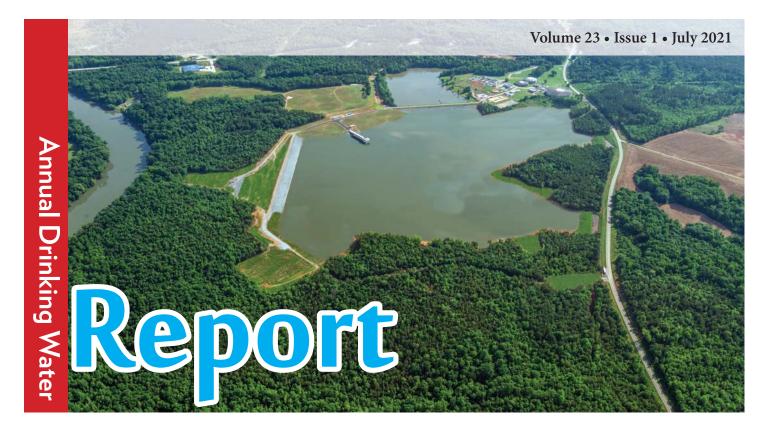
Regulatory Controls

To ensure that tap water is safe to drink, the U.S. EPA prescribes regulations that limit the amount of certain contaminants in public water provided by public water systems. The U.S. Food and Drug Administration (FDA) prescribes regulations that establish limits for contaminants in bottled water, which must provide the same protection for health.

<u>This report is provided to you as a service and we invite your comments so we can improve our information efforts.</u>

<u>The Commission meets at 6:30pm the 2nd Tuesday of each month at LCWSD's office, unless otherwise announced.</u>

COMMISSION BOARD: Gerald E. White, Chairman. Alfred "Doc" Steele, Vice Chairman. Robert Barr, Secretary. James C. Deaton, R. Larry Hammond, Robert A. Harris, Stephen E. White, Michael G. Williams, and R.J. Clyburn.



HOW CAN I GET INVOLVED?

- Water Conservation Tips -

There are many low-cost and no-cost ways to conserve water. Small changes can make a big difference – try one today and soon it will become second nature.

- → Take short showers a 5-minute shower uses 4 to 5 gallons of water compared to up to 50 gallons for a bath.
- Shut off water while brushing your teeth, washing your hair and shaving and save up to 500 gallons a month.
- Use a water-efficient shower head. They're inexpensive, easy to install, and can save you up to 750 gallons a month.
- Run your clothes washer and dishwasher only when they are full. You can save up to 1,000 gallons a month.
- → Water plants only when necessary.
- Fix leaky toilets and faucets. Faucet washers are inexpensive and take only a few minutes to replace. To check your toilet for
- a leak, place a few drops of food coloring in the tank and wait. If it seeps into toilet bowl without flushing, you have a leak. Fixing it or replacing it with a new, more efficient model can save up to 1,000 gallons a month.
- Adjust sprinklers so only your lawn is watered. Apply water only as fast as the soil can absorb it and during the cooler parts of the day to reduce evaporation.
- Teach your kids about the water conservation to ensure a future generation that uses water wisely. Make it a family effort to reduce next month's water bill.
- → Visit www.epa.gov/watersense for more information.

Source Water Protection Tips

Protection of drinking water is everyone's responsibility. You can help protect your community's drinking water source in several ways:

- Eliminate excess use of lawn and garden fertilizers and pesticides they contain hazardous chemicals that can reach your drinking water source.
- Use water smart landscaping and irrigation.
- Pick up after your pets.
- If you have your own septic system, properly maintain your system to reduce leaching to water sources or consider connecting to a public water system.
- Dispose of chemicals properly; take used motor oil to a recycling center.

Is My Water Safe?

We are pleased to provide this year's Annual Water Quality Report (Consumer Confidence Report) as required by the Safe Drinking Water Act (SDWA). This report is designed to provide details about where your water comes from, what it contains, and how it compares to standards set by regulatory agencies. This report is a snapshot of last year's water quality. We are committed to providing you with information because informed customers are our best allies.

1,095 miles

of waterlines

Equals the distance from Lancaster, SC to Ft. Worth, TX

364 miles

of gravity sewer & force main Equals the distance from Lancaster, SC to Jacksonville, FL 31,000+ WATER CUSTOMERS 19,800+ SEWER CUSTOMERS



IN-184721-LCWSD



Wes

Operations Manager

7 years with the district

14 years with the district

Carter



Brad Bucy

Manager 9 years with the district





Business Manager 22 years with the district



Robbie Peagler

Utilities Coordinator 23 years with the district



Rickenbaker Water Superintendent 14 years with the district



Paul

Gerald Cauthen

Sewer Superintendent 15 years with the district



Chris Richardson

IL Wastewater Treatment Facility Director 20 years with the district



Randy **Hawkins**

Catawba River Water Treatment Plant Director 6 years with the district



James Hawthorne

Development Engineer 15 years with the district

Not in violation **Chlorine**

Typical source:

Water additive used to control microbescontrol microbes

• Maximum residual disinfection level (MRDL) is the highest level of disinfectant allowed in drinking water. Maximum residual disinfection level goal

(MRDL & MRDLG) **Maximum** Allowed



parts per million

Annual average



2.92

The annual average was for water we purchased from the Catawba River Water Treatment Plant and ranged from a high of 3.20 to a low of 2.12.

(MRDLG) is the level of drinking water disinfectant below which there is no known or expected risk to health.

Not in violation

Chlorite

Typical source:

Water additive used to control microbes

Parts per million corresponds to 1 minute in 2 years or a single penny in \$10,000

Not in violation

Chlorine

Dioxide

Water additive used to

Typical source:

control microbes

(MRDL & MRDLG) Maximum Allowed **1.0 MRDL**

0.8 MRDLG parts per million

(MRDL & MRDLG)

Maximum

Allowed

parts per billion

Parts per billion corresponds

to 1 minute in 2,000 years or

1 penny in \$10,000,000

Annual



Annual average was for water we purchased from Catawba River Water Treatment Plant & ranged from a high of 0.54 to a low of 0.40.

Annual

average

Below detectable limits

we purchased from Catawba River

Annual average was for water

Water Treatment Plant & ranged

below detectable limits.

average



Human Resources Director

Darrell

Fenton Quality Control Coordinator

2 years with the district

Neil Rollins



English

Henderson

IT Director

1 year with the district

C.F. Truesdale

Office Manager 24 years with the district



Michael Marcus

GIS Director

8 years with the district

Kerri **Baker**



Finance Director 1 year with the district



Quincy Reed

Route Tech Supervisor 13 years with the district



Tim Kiser

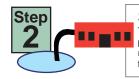
Professional Engineer 2 years with the district

Where we get our water & how it's treated



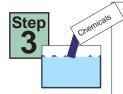
The source

Raw water is pumped from the Catawba River into a 23-acre lake for pre-settling raw water, then travels into a 92-acre reservoir at the Catawba River Water Treatment Facility at 5107 Riverside Road



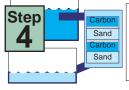
Settling

The raw water is pumped from the reservoir into the facility for treatment



Coagulation & **Sedimentation**

Chemicals are mixed into the water which form a solid material around small particles in the raw water, causing them to settle to the bottom of large settling tanks. The particles are then removed



Filtration The water flows

through filters of carbon and sand to remove any remaining



Disinfection

Chloramines are added to disinfect and to ensure that the water is safe to drink when it reaches you.

As water travels over land or underground, it can pick up substances or contaminants such as microbes, inorganic and organic chemicals, and radioactive substances.

All drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants. It's important to remember the presence of these contaminants doesn't necessarilv pose a health risk.

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing che-motherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly and infants can be particu-larly at risk from infections. These people should seek advice about drinking water from their health care providers.

For more information about contaminants and potential health effects or for EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbiological contaminants are available from the Safe Drinking Water Hotline - 1-800-426-4791



Not in violation

Nitrate

Typical source of nitrate:

Runoff from fertilizer use, leaching from septic tanks or sewage, erosion of natural deposits.

Maximum Allowed parts per million

(MCL& MCLG)

Maximum

Allowed

parts per million

(MCL)

Maximum

Allowed

(MCL & MCLG)

- The Maximum Contaminant Level is set by DHEC and is the highest level of contaminant allowed in drinking
- Parts per million corresponds to one minute in two years or a single penny in \$10,000.
- The "goal" (MCLG) is the level of a contaminant in drinking water below which no known or expected risk to health exists. MCLGs allow for a margin of safety.

Annual average



 Annual average was 0.93 for water purchased from Catawba River Water Treatment

Not in violation

Lead

Typical source:

- Corrosion of materials containing lead in household plumbing.
- Parts per billion corresponds to one minute in 2,000 years or a single penny in \$10,000,000.



Highest amount detected in our water (90th percentile value)

8.0 2019 results

- Laboratory analysis indicates that lead is not present above the limit.
- Not required to sample again until September 2022.
- See important information below about lead and copper.

Not in violation

Fluoride

Typical source:

Erosion of natural deposits, water additive to promote strong teeth, discharge from fertilizer and aluminum factories.

- Maximum Contaminant Level is set by DHEC and is the highest level of contaminant allowed in drinking water.
- Parts per million corresponds to one minute in two years or a single penny in \$10,000.
- The "goal" (MCLG) is the level of a contaminant in drinking water below which no known or expected risk to health exists. MCLGs allow for a margin of safety.

Annual average

• 0.62 Catawba

 Annual average was 0.62 for water purchased from Catawba River Water Treatment

Not in violation

Copper

Typical source:

- Corrosion of materials containing copper in household plumbing, erosion of natural deposits.
- Action Level is concentration of contaminant which, if exceeded, triggers treatment or other requirements that a water system must follow.
- Parts per million corresponds to 1 minute in 2 years or 1 penny in \$10,000.

(MCL) Maximum Allowed

Highest amount detected in our water (90th percentile value)

• 0.22 2019 results

· Not required to sample again until Sept. 2022

Not in violation

Total Trihalomethanes

Typical source:

By-product of drinking water disinfectant

- Parts per billion corresponds to one minute in 2,000 years or a single penny in \$10,000,000.
- Some people who drink water containing trihalomethanes in excess of the MCL over many years may experience problems with their liver, kidneys or central nervous systems and may have an increased risk of getting cancer.

Annual average



23.8 Annual average was

23.8 for water purchased parts per billion from Catawba River Water Treatment Plant and ranged from a high of 93.0 to a low of 12.

Not in violation

Haloacetic acids (HAAs)

Typical source:

By-product of drinking water disinfectant

Parts per billion corresponds to one minute in 2,000 years or a single penny in \$10,000,000.

(MCL) Maximum Allowed

parts per billion

Maximum

Allowed

Annual average



Annual average was 10.7 for water purchased from Catawba River Water Treatment Plant and ranged from a high of 27.9 to a low of 7.0.

Level

detected

1.28 - RAA

The range met the requirement. Sample fre-

quency was monthly.

Not in violation

Total Organic Carbon

Typical source:

Naturally present in environment

TT is defined as a treatment technique that is a required process intended to reduce the level of contaminant in drinking water. Running Annual Average, RAA must be more than 1.0 to meet compliance.

A Source Water Assessment Plan (SWAP) has been completed for LCWSD's water system. SWAPs, among other things, identify potential sources of contamination to drinking water supplies. For a copy, please call LCWSD at 285-6919 or 1-800-832-2126 during normal business hours.

Important lead & copper information

f present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children.

- Lead in drinking water is primarily from materials and components associated with < service lines and household plumbing.
- Lancaster County Water & Sewer District is responsible • for providing high quality drinking water but cannot control the variety of materials used in plumbing components.
- When your water sits for

- several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking.
- If you are concerned about lead in your drinking water, you may wish to have yours tested.
- Information on lead in drinking water, testing methods and steps you can take to minimize exposure is available from the Safe Drinking water Hotline or at http:www.epa. gov/safewater/lead.



Compliance with Other Drinking Water Regulations

Unregulated Contaminants Drives Future Water Treatment Needs

Unregulated contaminants do not yet have a drinking water standard set by USEPA. LCWSD is required to monitor these contaminants within our distribution system and the purpose of monitoring for these contaminants is to help USEPA decide whether the contaminants should have a standard. The following Additional Monitoring table charts detections of unregulated contaminants.

Contaminants from UCMR4 Sampled during 2019	Average of Results (ppb)	Range (ppb)
HAA5	11.92	6.39 - 23.72
HAA6Br	5.29	3.47 - 6.26
HAA9	16.80	9.86 - 29.59

Reference doses and health effects language can be found at: https://www.epa.gov/dwucmr/fact-sheets-about-fourth-unregulated-contaminant-monitoringrule-ucmr-4

Important Information About Your Drinking Water

The Catawba River Water Supply Project did not meet treatment requirements. On May 7, 2020, the Catawba River Water Supply Project did not meet the turbidity requirements for several hours. This was related to a construction project and a temporary failure of chemical addition that removes turbidity from the water.

A sample taken that day was recorded at 1.68NTUs which exceeded the treatment limit of 1.0NTUs. Because of this, there was an increased chance that the water may have contained disease-causing organisms. The water was tested and there was no indication of disease-causing organisms. A notice for the turbidity violation was posted to our website, facebook and twitter pages on July 9, 2020.

This was not an emergency. If it had been you would have been contacted within 24 hours of the occurrence.

Catawba Water Supply Project ensured through operations that the water turbidity returned to normal levels within a few hours of the incident.

Level 1 Assessment Sampling Sites

A Level 1 assessment is a study of the water system to identify potential problems and determine (if possible) why total coliform bacteria have been found in our water system. During the past year, we were required to conduct a Level 1 assessment on one (1) occasion when the sampling data from June, 2020 exceeded the standard for total coliform. The presence of total coliform in 5% of monthly samples is the maximum contaminant level.

Coliforms are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful, waterborne pathogens may be present or that a potential pathway exists through which contamination may enter the drinking water distribution system. We found coliforms indicating the need to look for potential problems in water treatment or distribution. When this occurs, we are required to conduct assessment(s) to identify problems and to correct any problems that were found during these assessments.

We completed the assessment in July, 2020 and corrective actions were isolated to the sample site locations; including notification to the property owners of potential cross-contamination associated with new plumbing fixtures, use of pipe thread lubricants or seals, and outdoor spigots located in close proximity to the ground. Another corrective action included additional training of new sampling employees on proper sample procedures and protocol.

Regulatory Controls

- To ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems.
- Food and Drug Administration (FDA) regulations establish limits for contaminants in bottled water which must provide the same protection for health.

Commission:

This report is provided as a service. Please share your comments with us, so we can improve our efforts to get you information you need.

Gerald E. White Alfred "Doc" Steele Robert Barr Chairman

Vice Chairman

Secretary

James C. Deaton R. Larry Hammond Robert A. Harris Stephen E. White Michael G. Williams Sammie Harper

The Commission meets at 6:30 p.m. the 2nd Tuesday of each month at LCWSD's office unless otherwise announced

^{*}Turbidity has no health effects. However, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms. These organisms include bacteria, viruses, and parasites which can cause symptoms such as nausea, cramps, diarrhea, and associated headaches.

^{*}These symptoms are not caused only by organisms in the drinking water.



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons



Soil Map Unit Points

Special Point Features

Blowout

Borrow Pit

36 Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill ۵

Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot 0

Sinkhole

Slide or Slip

Sodic Spot

â Stony Spot

00 Very Stony Spot

Spoil Area

Wet Spot

Other Special Line Features

Water Features

Δ

Streams and Canals

Transportation

Rails ---

Interstate Highways

US Routes

Major Roads

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Lancaster County, South Carolina Survey Area Data: Version 22, Aug 30, 2021

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Nov 16. 2020—Nov 20. 2020

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
GgB3	Georgeville silty clay loam, 2 to 6 percent slopes, severely eroded	9.0	17.7%
GgC3	Georgeville silty clay loam, 6 to 10 percent slopes, severely eroded	9.7	19.1%
GpC	Goldston-Pickens complex, 6 to 10 percent slopes	0.6	1.2%
HdB2	Herndon silt loam, 2 to 6 percent slopes, eroded	18.6	36.5%
NID2	Nanford loam, 10 to 15 percent slopes, moderately eroded	12.9	25.4%
TcE3	Tarrus silty clay loam, 10 to 25 percent slopes, severely eroded	0.1	0.1%
Totals for Area of Interest		50.8	100.0%

Lancaster County, South Carolina

HdB2—Herndon silt loam, 2 to 6 percent slopes, eroded

Map Unit Setting

National map unit symbol: 4cl5 Elevation: 300 to 1,100 feet

Mean annual precipitation: 38 to 53 inches Mean annual air temperature: 49 to 73 degrees F

Frost-free period: 192 to 247 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Herndon and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Herndon

Setting

Landform: Hillslopes

Landform position (two-dimensional): Summit Landform position (three-dimensional): Interfluve

Down-slope shape: Convex Across-slope shape: Convex

Parent material: Clayey residuum weathered from argillite or

serecite schist

Typical profile

Ap - 0 to 6 inches: silt loam
Bt - 6 to 34 inches: silty clay
BC - 34 to 45 inches: silty clay loam

C - 45 to 52 inches: silt loam

Properties and qualities

Slope: 2 to 6 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Available water supply, 0 to 60 inches: High (about 10.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2e

Hydrologic Soil Group: B

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lancaster County, South Carolina

Survey Area Data: Version 22, Aug 30, 2021

Lancaster County, South Carolina

NID2—Nanford loam, 10 to 15 percent slopes, moderately eroded

Map Unit Setting

National map unit symbol: 2wbbf Elevation: 460 to 680 feet

Mean annual precipitation: 40 to 64 inches Mean annual air temperature: 57 to 64 degrees F

Frost-free period: 200 to 260 days

Farmland classification: Not prime farmland

Map Unit Composition

Nanford and similar soils: 90 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of

the mapunit.

Description of Nanford

Setting

Landform: Hillslopes

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Linear Across-slope shape: Convex

Parent material: Clayey residuum weathered from argillite and

serecite schist

Typical profile

Ap - 0 to 3 inches: loam

Bt - 3 to 18 inches: silty clay loam BC - 18 to 29 inches: silt loam Cr - 29 to 80 inches: bedrock

Properties and qualities

Slope: 10 to 15 percent

Depth to restrictive feature: 20 to 39 inches to paralithic bedrock

Drainage class: Well drained

Capacity of the most limiting layer to transmit water

(Ksat): Moderately low to moderately high (0.14 to 0.57 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Available water supply, 0 to 60 inches: Low (about 5.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: C Hydric soil rating: No

Minor Components

Georgeville

Percent of map unit: 5 percent

Landform: Hillslopes

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Linear Across-slope shape: Convex Hydric soil rating: No

Goldston

Percent of map unit: 5 percent

Landform: Hillslopes

Landform position (two-dimensional): Backslope Landform position (three-dimensional): Side slope

Down-slope shape: Linear Across-slope shape: Convex Hydric soil rating: No

Data Source Information

Soil Survey Area: Lancaster County, South Carolina

Survey Area Data: Version 22, Aug 30, 2021



PERMIT TO CONSTRUCT - CERTIFICATE OF FINAL APPROVAL Onsite Sewage Treatment and Disposal System

PROMOTE PROTECT PROSPER				
Permit No.: 2004-06-0020	Type Facility:	bedroom bile Home	TMS#: 0013.00.135.0	00
Name:	Address:		Sys. Category: 360-100)
Subdivision: Stre	et:Laurel Hill Rd	Section/Lot:	Type Water Supp	y: <u>public</u>
SYSTEM SPECIFICATIONS Max. Est. Daily Flow: 240gal Loading Rate: 4 Tank Size(s): 1000gal Min Trenches: Length: 340 Width: 3' Max. Bottom Depth: Aggregate Depth: 14 Ez 1203H Min. Pump Capacity: 14 gpm at N4 ft. of Head SPECIAL INSTRUCTIONS/CONDITIONS SYSTEM MUST DE INSKELED AS DEC SITE MESTING WISH NACINICIAN STRUCTIONS/CONDITIONS SYSTEM MUST DE INSKELED AS THE MUST DE INSKELED AS THE MINISTRUCTIONS/CONDITIONS SYSTEM MUST DE INSKELED AS THE MUST DE INSKELED WITH RAY MOVID CAINER ON PROPERTY INSKELED ACTUAL INSTALLATION Installer: RAYMOND CAINER Tank(s) Mfg.: JES Aggregate Type: EL FISH Well Installed: Yes GR Nearest Actual Distance to: Well: Building: 5 Property Line: 6 Stream/Impoundment: Line No. Elevation Readings Stubout: 46 S/T Inlet: 56 S/T Outlet: 57 S/T Outlet: 56 S/T Outlet: 57 S/T Outlet: 57	ANY CHANGES TO SYSTEM	CERTIFICATE OF FI	THE HEALTH DEPARTMENT PRIOR TO SALE SALE SALE SALE SALE SALE SALE SALE	Not to scale TO INSTALLATION. 9 (NST) 49 56
Issued By: 12/2004)	Date: 3//3/C	1	Date: 10	101107
t	V	FILE		

LANCASTER COUNTY FIRE RESCUE - FIRE INCIDENT REPORT

Incident Date: 5/26/2016	Station Run #:	Station #:10
Weather: Temp. 78 Wind Speed 7 Direction	nw Humidity 76	x Clear/Dry
Cloudy Overcast Foggy Drizzle/Mist	Light Rain T-Storm	Snow/Sleet
154 Laurel Hill Rd Indian Land Sc 29707		
Address/Location of Incident	City, Sta	
Fire District of Incident: 10 We Provided:	Automatic Aid Mu	ıtual Aid X N/A
We Received: X Automatic Aid From 14 (16-334); 5 (16-068)		N/A
We Received: Mutual Aid From		N/A
Property Owner (If known): Bob Harris	Telephone #: 843-230)-2594
Incident Type: X Structure Fire Fire Alarm Activation	Grass/Woods Fire	Haz-Mat
Landing Zone False Call Other		
Action Taken: X Provide Manpower Provide Air Supply		Standby
Search Provide Water x Extinguishment	Canceled Enroute	x Salvage
Investigate Forcible Entry Remove Hazard	Assess Damage	Assist Citizen
Ventilate Leak/Spill Control Traffic Control	Provide First Aid & C	heck for Injuries
HazMat Monitoring & Detection Other		
<u>All Fires</u>		
Fire Discovered By:		
(Name) (Address)	(Telepl	hone #)
Area of Fire Origin: A Side		Unknown
The area of origin may be a room, portion of a room, a vehicle, portion of a vehicle, o	pen area, or area devoted for specific	
Heat Source:		X Unknown
The heat source that ignited the Item First Ignited to cause the fire.		
Item/Materials First Ignited: The first item that had sufficient volume or heat intensity to extend to uncontrolled or the sufficient volume or heat intensity to extend to uncontrolled or the sufficient volume or heat intensity to extend to uncontrolled or the sufficient volume or heat intensity to extend to uncontrolled or the sufficient volume or heat intensity to extend to uncontrolled or the sufficient volume or heat intensity to extend to uncontrolled or the sufficient volume or heat intensity to extend to uncontrolled or the sufficient volume or heat intensity to extend to uncontrolled or the sufficient volume or heat intensity to extend to uncontrolled or the sufficient volume or heat intensity to extend to uncontrolled or the sufficient volume or heat intensity to extend to uncontrolled or the sufficient volume or heat intensity to extend to uncontrolled or the sufficient volume or heat intensity to extend to uncontrolled or the sufficient volume or heat intensity to extend to uncontrolled or the sufficient volume or heat intensity to extend to uncontrolled or the sufficient volume or heat intensity to extend to uncontrolled or the sufficient volume or heat intensity to extend the sufficient volume or heat volume or heat intensity to extend the sufficient volume or h	or self-sustaining fire.	X Unknown
Was the fire contained to object of origin? Yes X No	7	
	What is there age? Ge	ender?
Factors Contributing to Ignition of Fire (if any):		X Unknown
Contributing factors that allowed the heat source and combustible material to	combine to ignite the fire. These	
a product, unattended fire or cooking, alcohol use, mechanical or electrical fail disorder, improper fuel, arc, short circuit, heater or welding too close to combi	lure, storm damage, playing with	fire, asleep, mental
Property Value: Pre-Incident \$ 80,000 Post Incident \$	0 Content Los	
Gallons/Water Used: 9500 Gallons/Foam Used	& Type: 10	
Injured: Name	Civilia	n Firefighter
Name		n Firefighter
Death: Name		
Name		

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LANCASTER COUNTY FIRE RESCUE - FIRE INCIDENT REPORT

Grass/Brush/Woods/Other Outside Fires Excluding Buildings
Type of Fire: Grass & Brush Mix Woods/Forest/Wildland Natural Vegetation, other
Cultivated Trees or Nursery Orchard or Vineyard Crop Fire Grain Cultivated Crop, Other
Outside Equipment Outside Gas or Vapor Outside Storage Outside Fire, Other
Outside Trash Compactor Dumpster/Trash Receptacle C&D Landfill Garbage Dump/Landfill
Outside Rubbish/Trash Outside Rubbish, Other Outside Mailbox Fire
Grass/Brush/Woods Fire Area Burned: Acres Less than 1 acre
Structure Fire Information
RESIDENTIAL FIRE - IS THE HOME HABITABLE? Yes X No No. of People in Home:
Type of Structure: Enclosed Building Other type of structure Portable/mobile used as fixed structure
X Residential Business/Commercial Name of Business
Building Status: Being demolished Idle, not routinely used X Vacant and unsecured Under major renovation
Occupied and operating Under construction Undetermined Other
Length & Width: 50X25 Square Footage: 1250 Number of Stories: 1
Number of Floors Damaged: 1 Extent of Damage: X Extreme Heavy Minor
Detectors Present? Yes No x Undetermined Did They Operate? Yes No x Undetermined
Powered By: Battery Wired Plug-In Wired w/Battery Plug-In w/ Battery \(\text{Undetermined} \)
Smoke/ Heat Detector Type: Heat Smoke More Than One Type Smoke/Heat x Undetermined
Automatic Extinguishing System Present: x None Present Partial System Present Undetermined
Type of System: Wet-Pipe Dry-Pipe CO2 Dry Chemical Other Undetermined
Water Flow or System Activation Alarm Present? Yes No Did Automatic System Active? Yes No
If Activated, was it effective? Yes No No, Fire Too Small Failed to Operate Undetermined
If Activated, Number of Heads Activated: If Activated and Not Effective, Why? System Shut Off Other
Not Enough Agent Discharged Wrong Type of System System Damaged Fire Area Not Protected
Mobile Property or Vehicle Fire
Type of Vehicle of Mobile Property: Automobile Off Road Recreational Motorcycle Motor Home
Travel Trailer Truck, General Dump Truck Tractor Trailer Freight Tank Truck Flammable Liquid
Tank Truck LP or Compressed Gas Garbage Truck Mobile Home(Not Fixed) Tank Truck Nonflammable
Agricultural (Tractor, Baler, etc) Crane Home Garden Vehicle Timber Harvest Vehicle
Construction (Bulldozer, Backhoe, Etc.) Bus Cargo Container Railcar -Tank Boat
Railcar - Box, Hopper, Freight Armored Car Industrial - Forklift, etc. Locomotive/Engine
Air Plane Helicopter Other
Name of Responsible Person: Operator Owner
Address of Responsible Person:
Insurance Company: Policy Number: Make:
Model: Year: VIN:
License Plate # & State:

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LANCASTER COUNTY FIRE RESCUE - FIRE INCIDENT REPORT

Incident Narrative

(Any additional information may be added here if needed. Narrative should include actions taken by reporting Fire Department)					
Station 10 was dispatched to above location for a structre fire. Upon getting on scene Station 10 found a fully involved house fire. Station 10 Set up on defense due to extreme fire condtions and active ammo going off. Dispatch advised home did not have power from homeowner but members found the house had a meter to it. The house was vacent. Homeowner stated they wanted a investigation due to home being vacent. Station 10 Cleared and returned to service.					
Responding Apparatus					
Engine: 1001	Tanker: 1021	Ladde	er:	Rescue:	Brush:
Responding Personnel					
		<u>Unit Driven</u>			<u>Unit Driven</u>
Chief Tom Pi		- 1001	Firefighter		-
Asst./Dep. Ch		-	Firefighter		-
Asst./Dep. Ch	ief	-	Firefighter		-
Captain			Firefighter		-
Captain			Firefighter		-
Captain			Firefighter		-
Lieutenant	Bobby Bellflower	- 1021	Firefighter		-
Lieutenant	Chris Miller		Firefighter		-
Lieutenant			Firefighter		-
Firefighter	Ken Walters	- pov	FF/Explorer		-
Firefighter		-	FF/Explorer		-
Firefighter		_	FF/Explorer		-
Firefighter		_	FF/Explorer		-
Member Completing Report:				Command / Officer-In-Ch	arge:
Bobby Bellflower			Tom Pick	ard	

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1. IDENTIFICATION

Product Name Responder®

Class "A" Foam Concentrate

Recommended use of the chemical and

restrictions on use Identified uses

Restrictions on Use Company Identification

Firefighting Foam Concentrate

Class A fires only National Foam

350 East Union Street West Chester, PA 19382

Customer Information Number (610) 363-1400

Emergency Telephone Number Infotrac at (800) 535-5053

Issue DateSupersedes Date
July 22, 2019
July 16, 2018

Safety Data Sheet prepared in accordance with OSHA's Hazard Communication Standard (29 CFR 1910.1200, the Canadian Hazardous Products Regulations (HPR) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

2. HAZARD IDENTIFICATION

Hazard Classification

Eye Damage/Irritation - Category 1 Skin Corrosion/Irritation - Category 2

Label Elements

Hazard Symbols



Signal Word: Danger

Hazard Statements

Causes serious eye damage.

Causes skin irritation.

Precautionary Statements

Prevention

Wash hands thoroughly after handling.

Wear protective gloves/eye protection/face protection.

Response

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.

If on skin: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

Storage

None Disposal

None .

Other Hazards

None identified.



2. HAZARD IDENTIFICATION

Specific Concentration Limits

The values listed below represent the percentages of ingredients of unknown toxicity.

Acute oral toxicity 5 - 15%
Acute dermal toxicity 15 - 25%
Acute inhalation toxicity 20 - 30%
Acute aquatic toxicity 20 - 30%

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

 Component
 CAS Number
 Concentration*

 Sodium decyl sulfate
 142-87-0
 5 - 10%

 Sodium alkyl ether sulfate
 68585-34-2
 5 - 10%

 Dipropylene Glycol Monomethyl Ether
 34590-94-8
 1 - 5%

 Methanol
 67-56-1
 0.1 - <1%</td>

4. FIRST- AID MEASURES

Description of necessary first-aid measures

Eves

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin

Wash skin thoroughly with soap and water. Obtain medical attention if irritation persists.

Ingestion

Dilute by drinking large quantities of water and obtain medical attention.

Inhalation

Move victim to fresh air. Obtain medical attention immediately for any breathing difficulty.

Most important symptoms/effects, acute and delayed

Aside from the information found under Description of necessary first aid measures (above) and Indication of immediate medical attention and special treatment needed, no additional symptoms and effects are anticipated.

Indication of immediate medical attention and special treatment needed Notes to Physicians

Treat symptomatically.

5. FIRE - FIGHTING MEASURES

Suitable Extinguishing Media

This preparation is used as an extinguishing agent and therefore is not a problem when trying to control a fire. Use extinguishing agent appropriate to other materials involved.

Specific hazards arising from the chemical

This product will foam when mixed with water.

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^{*}Exact concentration withheld as trade secret.



5. FIRE - FIGHTING MEASURES

Special Protective Actions for Fire-Fighters

Wear full protective clothing and self-contained breathing apparatus as appropriate for specific fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear appropriate protective clothing. Prevent skin and eye contact.

Environmental Precautions

Prevent large quantities of the material from entering drains or watercourses.

Methods and materials for containment and cleaning up

Contain and absorb using appropriate inert material and transfer into suitable containers for recovery or disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Wear appropriate protective clothing. Prevent skin and eye contact.

Conditions for safe storage

Store in original containers between 35°F and 120°F (2°C and 49°C). Storage area should be: cool - dry - well ventilated - under cover - out of direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits are listed below, if they exist.

Sodium decyl sulfate

None established

Sodium alkyl ether sulfate

None established

Dipropylene Glycol Monomethyl Ether

ACGIH TLV: 100 ppm (606 mg/m³) 8hr TWA; 15 min STEL 150 ppm (909 mg/m³); Danger of cutaneous absorption.

OSHA PEL: 100 ppm (600 mg/m³) Danger of cutaneous absorption.

Methanol

ACGIH TLV: 200ppm (262 mg/m³) 8h TWA; 250ppm (328 mg/m³)15-minute STEL. Danger of cutaneous absorption.

OSHA: 200ppm (260 mg/m3) 8h TWA.

Appropriate engineering controls

Use with adequate ventilation. If this product is used in a pressurized system, there should be local procedures for the selection, training, inspection and maintenance of this equipment. When used in large volumes, use local exhaust ventilation.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Individual protection measures

Respiratory Protection

Wear respiratory protection if there is a risk of exposure. A NIOSH approved full face respirator may be worn. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.

Skin Protection

Gloves

Eye/Face Protection

Chemical goggles or safety glasses with side shields.

Body Protection

Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical State Liquid

Color Colorless

Odor Mild, pleasant
Odor Threshold No data available

pH 8.2 Specific Gravity 1.04

Boiling Range/Point (°C/F)

No data available

Melting Point (°C/F)

No data available

Flash Point (°C/F) >93.3/200

Vapor Pressure No data available Evaporation Rate (BuAc=1) No data available

Solubility in Water Soluble

Vapor Density (Air = 1)

VOC (%)

Partition coefficient (n
Not applicable
No data available
No data available

octanol/water)

Viscosity

Auto-ignition Temperature
Decomposition Temperature
Upper explosive limit
Lower explosive limit
Flammability (solid, gas)

No data available
Not applicable
Not applicable
Not applicable

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical Stability

Stable under normal conditions.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to Avoid

Contact with incompatible materials

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10. STABILITY AND REACTIVITY

Incompatible Materials

Water reactive materials – burning metals – electrically energized equipment

Hazardous Decomposition Products

Oxides of carbon - alkyl mercaptans - sulfides - sulfur oxides - sodium oxides

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Dipropylene Glycol Monomethyl Ether

Oral LD50 (rat) >5000 mg/kg

Dermal LD5 (rabbit) >9510 mg/kg

Inhalation LC50 (rat) > 3.35 mg/l,7h, vapour, no deaths occurred at this concentration

Specific Target Organ Toxicity (STOT) - single exposure

No relevant studies identified.

Specific Target Organ Toxicity (STOT) - repeat exposure

No relevant studies identified.

Serious Eye damage/Irritation

Sodium alkyl ether sulfate: Causes serious eye damage.

Sodium decyl sulfate: Causes serious eye damage at ≥20%. Eye irritant at 10- <20%.

Skin Corrosion/Irritation

Sodium alkyl ether sulfate: Causes skin irritation.

Sodium decyl sulfate: Irritating to skin in animal studies. (based on similar material)

Respiratory or Skin Sensitization

No relevant studies identified.

Carcinogenicity

Not considered carcinogenic by NTP, IARC, and OSHA.

Germ Cell Mutagenicity

No relevant studies identified.

Reproductive Toxicity

Methanol: Some teratogenic and fetotoxic effects were observed in animal studies but are inconclusive.

Aspiration Hazard

Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity

No relevant studies identified.

Mobility in soil

No relevant studies identified.



12. ECOLOGICAL INFORMATION

Persistence/Degradability

No relevant studies identified.

Bioaccumulative Potential

No relevant studies identified.

Other adverse effects

No relevant studies identified.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

This product, as sold, is not a RCRA-listed waste or hazardous waste as characterized by 40 CFR 261. However, state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Therefore, applicable local and state regulatory agencies should be contacted regarding disposal of waste foam concentrate or foam/foam solution.

Concentrate

Prevent foam concentrate from entering ground water, surface water or storm drains. Small quantities of foam concentrate may be collected on absorbents which can then be disposed of. Disposal should be made in accordance with local, state and federal regulations.

Foam/Foam Solution

Prevent foam/foam solution from entering ground water, surface water or storm drains. Small quantities of foam solution may be collected on absorbents which can then be disposed of. Disposal should be made in accordance with local, state and federal regulations.

<u>NOTE:</u> Please consult National Foam for additional information regarding the disposal of foam concentrates and foam solutions.

14. TRANSPORT INFORMATION

Shipping Information Shipping Description National Motor Freight Code

Fire Extinguisher Charges or Compounds N.O.I., Class 70 69160 Sub 0

This information is not intended to convey all transportation classifications that may apply to this product. Classifications may vary by container volume and by regional regulations. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules when transporting this material.

15. REGULATORY INFORMATION

United States TSCA Inventory

All components of this product are in compliance or are exempt from inventory listing requirements of the US Toxic Substance Control Act (TSCA) Chemical Substance Inventory.

Canada DSL Inventory

All ingredients in this product have been verified for listing on the Domestic Substance List (DSL) or the Non-Domestic Substance List (NDSL).

SARA Title III Sect. 311/312 Categorization

Serious eye damage - Skin irritation

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15. REGULATORY INFORMATION

SARA Title III Sect. 313

This product contains the following chemicals that are listed in Section 313 at or above de minimis concentrations: None

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA)
None

California Proposition 65



WARNING: This product can expose you to chemicals including formaldehyde, 1,4 dioxane and ethylene oxide, which are known to the State of California to cause cancer, and ethylene oxide and methanol, which are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

16. OTHER INFORMATION

NFPA Ratings

NFPA Code for Health - 2 NFPA Code for Flammability - 0 NFPA Code for Reactivity - 0 NFPA Code for Special Hazards - None

Legend

ACGIH: American Conference of Governmental Industrial Hygienists

BOD₅:Biochemical Oxygen Demand (5 day) CAS#: Chemical Abstracts Service Number

COD: Chemical Oxygen Demand EC50: Effect Concentration 50%

IARC: International Agency for Research on Cancer

LC50: Lethal Concentration 50%

LD50: Lethal Dose 50%

N/A: Denotes no applicable information found or available OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

RQ: Reportable Quantity

STEL: Short Term Exposure Limit

N/A: Denotes no applicable information found or available OSHA: Occupational Safety and Health Administration

PEL: Permissible Exposure Limit

RQ: Reportable Quantity

STEL: Short Term Exposure Limit

TLV: Threshold Limit Value

TSCA: Toxic Substance Control Act

Revision Date: July 22, 2019 Replaces: July 16, 2018

Changes made: Changes to sections 8 and 15.

Information Source and References

This SDS is prepared by Hazard Communication Specialists based on information provided by internal company references.

Prepared By: EnviroNet LLC.

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16. OTHER INFORMATION

Responder is a trademark of Angus International.

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